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1.1068 jetty-servlets 9.4.16.v20190411
   1.1068.1 Available under license
1.1069 x-crypto 0.0.0-20210421170649-83a5a9bb288b
   1.1069.1 Available under license
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   1.1070.1 Available under license
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1.1073 go-ldap-ldap v3.1.7
   1.1073.1 Available under license
1.1074 tomcat-tribes 9.0.63
   1.1074.1 Available under license
1.1075 jcmtturner-dnsutils 2.0.0
   1.1075.1 Available under license
1.1076 argparse 0.7.0
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1.1108 simpleclient-hotspot 0.6.0

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* Alec Wysoker
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1.4 grpc-ecosystem-go-grpc-middleware 1.3.0

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/* /opt/cola/permits/1192756266_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/lz4/LZ4JNIFastDecompressor.java
 */ /opt/cola/permits/1192756266_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/xxhash/XXHashConstants.java

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* /opt/cola/permits/1192756266_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/lz4/LZ4CompressorWithLength.java
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1.14 cast 1.3.1

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1.17 go-isatty 0.0.4
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1.18 go-xerial-snappy 0.0.0-20180814174437-776d5712da21
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1.19 git 2.17.1-1ubuntu0.11

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* DNS resolver (dirmngr/dns.c)

```
dns.c - Recursive, Reentrant DNS Resolver.

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prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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Any executables containing that work also fall under Section 6.
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Manoj Srivastava <srivasta@debian.org>
arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6eeb27

1.39 python-certifi 2018.1.18
1.39.1 Available under license :

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

cal-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:
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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@(#) SRCfile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.40 cidranger 1.0.2
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1.41 mitchellh-mapstructure 1.4.1
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1.45 python 3.6.7 1~18.04

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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 (now Zope Corporation; see http://www.zope.com/). 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 is a sponsoring member of the PSF.

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Mersenne Twister
---------------

The `module` `random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).
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Any feedback is very welcome.
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
------

The `socket` module uses the functions, `getaddrinfo`, and `getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/.

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Asynchronous socket services
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
  between ascii and binary. This results in a 1000-fold speedup. The C
  version is still 5 times faster, though.
- Arguments more compliant with Python standard

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--------------------
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Select kqueue
-------------

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--------

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
Samuel Neves (supercop/crypto_auth/siphash24/little)
djb (supercop/crypto_auth/siphash24/little2)
Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
-------------

The file `Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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zlib
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jloup@gzip.org          madler@alumni.caltech.edu

cfuhash
-------

The implementation of the hash table used by the :mod:`tracemalloc` is based on the cfuhash project:

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

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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

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

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Oracle OpenJDK

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* java.sun.security.ssl

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

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org.ow2.asm:asm-commons
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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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

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

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* /opt/cola/permits/1224864821_1636156620.99/0/jose4j-0-7-8-sources-jar/org/jose4j/jwk/SimpleJwkFilter.java
* /opt/cola/permits/1224864821_1636156620.99/0/jose4j-0-7-8-sources-jar/org/jose4j/jwk/DecryptionJwkSelector.java
* /opt/cola/permits/1224864821_1636156620.99/0/jose4j-0-7-8-sources-jar/org/jose4j/lang/InvalidKeyException.java

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* /opt/cola/permits/1224864821_1636156620.99/0/jose4j-0-7-8-sources-
  jar/org/jose4j/jwe/kdf/ConcatenationKeyDerivationFunctionWithSha256.java
* /opt/cola/permits/1224864821_1636156620.99/0/jose4j-0-7-8-sources-
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* /opt/cola/permits/1224864821_1636156620.99/0/jose4j-0-7-8-sources-
  jar/org/jose4j/jws/AlgorithmIdentifiers.java
* /opt/cola/permits/1224864821_1636156620.99/0/jose4j-0-7-8-sources-
  jar/org/jose4j/jwt/consumer/NumericDateValidator.java
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* /opt/cola/permits/1224864821_1636156620.99/0/jose4j-0-7-8-sources-jar/org/jose4j/jwe/AesCbcHmacSha2ContentEncryptionAlgorithm.java
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jar/io/netty/channel/PreferHeapByteBufAllocator.java
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jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
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jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
* /opt/cola/permits/1267543462_1644318756.86/0/netty-transport-4-1-73-final-sources-
jar/io/netty/bootstrap/FailedChannel.java
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 */
/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its {link ChannelPipeline}.  
 *<h3>Sub-types</h3>
 *</p>
 *[@link ChannelHandler] itself does not provide many methods, but you usually have to implement one of its
 *subtypes:
 *</ul>
 *</li>
 *</ul>
 *</li>
 *</li>
 *</ul>
 *
 * Alternatively, the following adapter classes are provided for your convenience:
 *</ul>
 *</li>
 *</ul>
 *</li>
 *</ul>
 *
 *<p>
 *For more information, please refer to the documentation of each subtype.
 *</p>
 *
 *<h3>The context object</h3>
 *
 *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]<Message> {

  private boolean loggedIn;

  @Override
  public void channelRead0([@link ChannelHandlerContext] ctx, Message message) {
    if (message instanceof LoginMessage) {
      authenticate((LoginMessage) message);
      loggedIn = true;
    } else (message instanceof GetDataMessage) {
      if (loggedIn) {
        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 a unauthenticated client can get
* the confidential information:
* 
* // Create a new handler instance per channel.
* // See {@link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends [@link ChannelInitializer]&lt;Channel&gt; {

  @code @Override
  public void initChannel([@link Channel] channel) {
    channel.pipeline().addLast("handler", new DataServerHandler());
  }
*
* </pre>
* Using `@AttributeKey`s

* 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 `@AttributeKey`s which is provided by `@ChannelHandlerContext`:

```java
public interface Message {
    // your methods here
}

@Sharable
public class DataServerHandler extends @SimpleChannelInboundHandler<Message> {
    private final @AttributeKey<Boolean> auth = AttributeKey.valueOf("auth");

    @Override
    public void channelRead(@ChannelHandlerContext ctx, Message message) {
        Attribute<Boolean> attr = ctx.attr(auth);
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) o);
            attr.set(true);
        } else if (message instanceof GetDataMessage) {
            if (Boolean.TRUE.equals(attr.get())) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
            } else {
                fail();
            }
        }
    }
}
```

Now that the state of the handler is attached to the `@ChannelHandlerContext`, you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends @ChannelInitializer<Channel> {
    private static final DataServerHandler SHARED = new DataServerHandler();

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

* <h4>Using `@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 `@AttributeKey`s which is provided by `@ChannelHandlerContext`:

```java
public interface Message {
    // your methods here
}

@Sharable
public class DataServerHandler extends @SimpleChannelInboundHandler<Message> {
    private final @AttributeKey<Boolean> auth = AttributeKey.valueOf("auth");

    @Override
    public void channelRead(@ChannelHandlerContext ctx, Message message) {
        Attribute<Boolean> attr = ctx.attr(auth);
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) o);
            attr.set(true);
        } else if (message instanceof GetDataMessage) {
            if (Boolean.TRUE.equals(attr.get())) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
            } else {
                fail();
            }
        }
    }
}
```

Now that the state of the handler is attached to the `@ChannelHandlerContext`, you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends @ChannelInitializer<Channel> {
    private static final DataServerHandler SHARED = new DataServerHandler();

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

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

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.

If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

This annotation is provided for documentation purpose, just like the JCIP annotations.

Additional resources worth reading

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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1.63 pyparsing 2.2.0

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1.64 jackson-databind 2.9.10.8

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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1.92 python-certifi 2018.01.18

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c-a-bundle.crt -- Bundle of CA Root Certificates

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@(#) SRCSfile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.93 go 1.17.5
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1.94 libpsl 0.19.1-5build1

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

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

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

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

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

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

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

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straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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

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

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

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

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

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

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

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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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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.

@heading TERMS AND CONDITIONS

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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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(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.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work’s System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

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cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

@item
Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

@item
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@end enumerate

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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1.103 prometheus-procfs 0.0.2

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1.110 libcap 2.25-1.2

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1.117 gopsutil 2.20.5+incompatible

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1.120 jackson-xc 2.12.6
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 */
* @param executable The executable of interest.
* *
* @return A list with parameter meta data for the given executable.
*/

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*/
/**
* A method-level constraint, that evaluates a script expression against the
* annotated method or constructor. This constraint can be used to implement
* validation routines that depend on several parameters of the annotated
* executable.
* </p>
* </p>
* Script expressions can be written in any scripting or expression language,
* for which a <a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a>
* ("Scripting for the Java<sup>TM</sup> Platform") compatible engine can be
* found on the classpath. To refer to a parameter within the scripting
* expression, use its name as obtained by the active
* [link javax.validation.ParameterNameProvider]. By default, [@arg0], [@arg1] etc.
* will be used as parameter names.
* </p>
* </p>
* The following listing shows an example using the JavaScript engine which
* comes with the JDK:
* </p>
* <pre>
* [@code @ParameterScriptAssert(script = "arg0.before(arg1)", lang = "javascript")
* public void createEvent(Date start, Date end) { ... } ]
* }
* </pre>
* </p>
* Can be specified on any method or constructor.
* </p>
* *
* @author Gunnar Morling
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 */
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* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/engine/groups/GroupWithInheritance.java
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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- 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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1.142 mawk 1.3.3 17ubuntu3

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

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

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Oracle

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

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

------

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html
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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

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

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Apache

The following artifacts are ASL2 licensed.

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

-------

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

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

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
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1.144 metrics-jvm 4.1.16

1.144.1 Available under license:
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1.145 httpcomponents-core 4.4.13

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  jar/io/netty/handler/traffic/GlobalChannelTrafficShapingHandler.java
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* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/stream/ChunkedStream.java
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  jar/io/netty/handler/ssl/NotSslRecordException.java
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  jar/io/netty/handler/stream/ChunkedNioFile.java
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  jar/io/netty/handler/timeout/package-info.java
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  jar/io/netty/handler/timeout/WriteTimeoutHandler.java
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* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/pcap/PcapWriter.java
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jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
jar/io/netty/handler/ipfilter/IpFilterRule.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
jar/io/netty/handler/ssl/JettyNpnSslEngine.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
jar/io/netty/handler/ssl/IpFilterRuleType.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
jar/io/netty/handler/ssl/OpenSslEngine.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
jar/io/netty/handler/ssl/OpenSslSessionContext.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
jar/io/netty/handler/ssl/OpenSslSessionStats.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
jar/io/netty/handler/ssl/OpenSslEngineMap.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
jar/io/netty/handler/ssl/OpenJdkSelfSignedCertGenerator.java
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  jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
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  jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/SslContextBuilder.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/SslContextBuilder.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/SslContextBuilder.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/PseudoRandomFunction.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java

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  jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
jar/io/netty/handler/ssl/SslMasterKeyHandler.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/address/DynamicAddressConnectHandler.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java
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* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java
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* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/OpenSslSession.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/OpenSslTlsv13X509ExtendedTrustManager.java

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* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/ssl/jdk/ocsp/package-info.java
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  jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
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* org.eclipse.jetty.orbit:javax.mail.glassfish

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

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

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Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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

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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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Mersenne Twister
----------------

The `random' module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html'. The following are the verbatim comments from the original code:
A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets
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The `socket' module uses the functions, `getaddrinfo', and
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
  between ascii and binary. This results in a 1000-fold speedup. The C
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- Arguments more compliant with python standard

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----------------------------

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

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<signature of Ty Coon>, 1 April 1990
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That's all there is to it!

/* nicstar.c v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
* 
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
* 
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* 
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
* 
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
* 
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
* 
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M. Welsh, 6 July 1996

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Eclipse

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

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

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

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

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

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

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

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

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

Apache

The following artifacts are ASL2 licensed.

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

MortBay
The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.153 go-toml 1.9.3

1.153.1 Available under license:
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localtime.go, localtime_test.go:

Originals:
https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil.go
https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil_test.go

Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.

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1.154 jackson-module-scala 2.12.6

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1.155 jetty-continuation 9.4.35.v20201120

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

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

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

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Oracle

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

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

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

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

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

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

Apache

The following artifacts are ASL2 licensed.

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

MortBay

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

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

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Mortbay

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.156 netty-transport-classes-epoll

4.1.73.Final

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Found in path(s):
* /opt/cola/permits/1267543389_1644318747.85/0/netty-transport-classes-epoll-4-1-73-final-sources.jar/io/netty/channel/epoll/Native.java

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

/**
 * Set the {@code TCP_QUICKACK} option on the socket.
 * See &lt;a href="https://linux.die.net//man/7/tcp">TCP_QUICKACK</a&gt; for more details.
 */

Found in path(s):
* /opt/cola/permits/1267543389_1644318747.85/0/netty-transport-classes-epoll-4-1-73-final-sources.jar/io/netty/channel/epoll/EpollSocketChannelConfig.java

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* /opt/cola/permits/1267543389_1644318747.85/0/netty-transport-classes-epoll-4-1-73-final-sources-jar/io/netty/channel/epoll/SegmentedDatagramPacket.java
* /opt/cola/permits/1267543389_1644318747.85/0/netty-transport-classes-epoll-4-1-73-final-sources-jar/io/netty/channel/epoll/EpollDomainDatagramChannelConfig.java
* /opt/cola/permits/1267543389_1644318747.85/0/netty-transport-classes-epoll-4-1-73-final-sources-jar/io/netty/channel/epoll/EpollDomainDatagramChannel.java
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* Keys can only be set on, not read to prevent a potential leak, as they are confidential.
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* /opt/cola/permits/1267543389_1644318747.85/0/netty-transport-classes-epoll-4-1-73-final-sources.jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java
* /opt/cola/permits/1267543389_1644318747.85/0/netty-transport-classes-epoll-4-1-73-final-sources.jar/io/netty/channel/epoll/EpollChannelConfig.java
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1.157 protobuf 1.26.0
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* /opt/cola/permits/1257332954_1642801959.04/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/src/main/java/com/mifmif/common/regex/GenerexIterator.java
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* /opt/cola/permits/1257332954_1642801959.04/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/src/test/java/com/mifmif/common/regex/GenerexUnitTest.java

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</distributionManagement>

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1.159 jersey 2.25.1

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1.161 x-sys 0.0.0-20220128215802-99c3d69c2c27

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1.162 openssl 1.1.1-1ubuntu2.1~18.04.19

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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

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

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

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

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPLv2 with classpath exceptions. http://openjdk.java.net/legal/gplv2+ce.html

OW2

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

Apache

The following artifacts are ASL2 licensed.

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

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

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.170 pycryptodome 3.14.1

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1.174 toml 0.3.1

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1.175 openssl 1.0.2j

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1.176 go-uber-org-multierr 1.4.0
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1.177 activation-api 1.2.1

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### 1.178 lib-pq 1.10.0

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// +build go1.10

package pq

import (
    "context"
    "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A runtime panic occurs if c is not a pq connection. This is rarely used directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
    return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A runtime panic occurs if c is not a pq connection. A nil handler may be used to unset it. This is rarely used directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
    c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler on it.
type NoticeHandlerConnector struct {
    driver.Connector
    noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
    c, err := n.Connector.Connect(ctx)
    if err != nil {
        SetNoticeHandler(c, n.noticeHandler)
    }
    return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and setting the notice
// handler. A nil notice handler may be used to unset it.

// The returned connector is intended to be used with database/sql.OpenDB.

// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        c.noticeHandler = handler
        return c
    }
    return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}

1.179 jackson-databind 2.11.1
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1.180 lz4 0.0~r131-2ubuntu3.1

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

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

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Oracle

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

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

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

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

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

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

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Apache

The following artifacts are ASL2 licensed.

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

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api
The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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#
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
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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/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
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1.189 kubernetes-component-base 0.22.4

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* /opt/cola/permits/1267543382_1644318286.39/0/netty-codec-4-1-73-final-sources-jar/io/netty/handler/codec/DateFormatter.java
jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /opt/cola/permits/1267543382_1644318286.39/0/netty-codec-4-1-73-final-sources-
jar/io/netty/handler/codec/string/LineSeparator.java
* /opt/cola/permits/1267543382_1644318286.39/0/netty-codec-4-1-73-final-sources-
jar/io/netty/handler/codec/compression/CompressionUtil.java

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jar/io/netty/handler/codec/compression/Lz4XXHash32.java
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jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
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/**
* Utility class for [@link ByteBuf] that encodes and decodes to and from
* <a href="https://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>
* The encoding and decoding algorithm in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/

Found in path(s):
/ /opt/cola/permits/1267543382_1644318286.39/0/netty-codec-4-1-73-final-sources-
jar/io/netty/handler/codec/base64/Base64.java

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/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
Found in path(s):
* /opt/cola/permits/1267543382_1644318286.39/0/netty-codec-4-1-73-final-sources-
  jar/io/netty/handler/codec/base64/Base64Dialect.java
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  jar/io/netty/handler/codec/Headers.java
* /opt/cola/permits/1267543382_1644318286.39/0/netty-codec-4-1-73-final-sources-
  jar/io/netty/handler/codec/DefaultHeaders.java
* /opt/cola/permits/1267543382_1644318286.39/0/netty-codec-4-1-73-final-sources-
  jar/io/netty/handler/codec/EmptyHeaders.java
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jar/io/netty/handler/codec/serialization/WeakReferenceMap.java
* /opt/cola/permits/1267543382_1644318286.39/0/netty-codec-4-1-73-final-sources-
ar/io/netty/handler/codec/base64/Base64Decoder.java
* /opt/cola/permits/1267543382_1644318286.39/0/netty-codec-4-1-73-final-sources-
ar/io/netty/handler/codec/marshalling/package-info.java
* /opt/cola/permits/1267543382_1644318286.39/0/netty-codec-4-1-73-final-sources-
ar/io/netty/handler/codec/CorruptedFrameException.java
* /opt/cola/permits/1267543382_1644318286.39/0/netty-codec-4-1-73-final-sources-
ar/io/netty/handler/codec/ByteToMessageDecoder.java
* /opt/cola/permits/1267543382_1644318286.39/0/netty-codec-4-1-73-final-sources-
ar/io/netty/handler/codec/compression/DecompressionException.java
* /opt/cola/permits/1267543382_1644318286.39/0/netty-codec-4-1-73-final-sources-
ar/io/netty/handler/codec/compression/package-info.java

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* /opt/ cola/permits/1267543382_1644318286.39/0/netty-codec-4-1-73-final-sources-
ar/io/netty/handler/codec/ProtocolDetectionResult.java
* /opt/cola/permits/1267543382_1644318286.39/0/netty-codec-4-1-73-final-sources-
ar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/cola/permits/1267543382_1644318286.39/0/netty-codec-4-1-73-final-sources-
ar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/cola/permits/1267543382_1644318286.39/0/netty-codec-4-1-73-final-sources-
ar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /opt/cola/permits/1267543382_1644318286.39/0/netty-codec-4-1-73-final-sources-
ar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /opt/cola/permits/1267543382_1644318286.39/0/netty-codec-4-1-73-final-sources-
ar/io/netty/handler/codec.HeadersUtils.java
* /opt/cola/permits/1267543382_1644318286.39/0/netty-codec-4-1-73-final-sources-
ar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /opt/cola/permits/1267543382_1644318286.39/0/netty-codec-4-1-73-final-sources-
ar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /opt/cola/permits/1267543382_1644318286.39/0/netty-codec-4-1-73-final-sources-
ar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
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* /opt/cola/permits/1267543382_1644318286.39/0/netty-codec-4-1-73-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java

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* /opt/cola/permits/1267543382_1644318286.39/0/netty-codec-4-1-73-final-sources-
jar/io/netty/handler/codec/DefaultHeadersImpl.java
* /opt/cola/permits/1267543382_1644318286.39/0/netty-codec-4-1-73-final-sources-
jar/io/netty/handler/codec/ValueConverter.java
* /opt/cola/permits/1267543382_1644318286.39/0/netty-codec-4-1-73-final-sources-
jar/io/netty/handler/codec/CharSequenceValueConverter.java

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 */
/**
**/

/*
 * A decoder that splits the received [ @link ByteBuf\]\s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 */
* [@link LengthFieldBasedFrameDecoder](#) has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
*
* <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)
* </pre>
*
* BEFORE DECODE (14 bytes)     AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 0, strip header</h3>
*
* Because we can get the length of the content by calling
* [@link ByteBuf#readableBytes()](#), you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>. In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
* </pre>
*
* BEFORE DECODE (14 bytes)     AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+
* </pre>
*
* <h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>
* In most cases, the length field represents the length of the message body only, as shown in the previous examples. However, in some protocols, the length field represents the length of the whole message, including the message header. In such a case, we specify a non-zero value for the lengthAdjustment field. Because the length value in this example message is always greater than the body length by 2, we specify lengthAdjustment as -2 for compensation.

* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = -2 (= the length of the Length field)
* initialBytesToStrip = 0

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

<table>
<thead>
<tr>
<th>Length</th>
<th>Actual Content</th>
<th>Length</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x000E</td>
<td>&quot;HELLO, WORLD&quot;</td>
<td>0x000E</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>

* </pre>

* ch3>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. lengthAdjustment is zero again because the decoder always takes the length of the prepended data into account during frame length calculation.

* lengthFieldOffset = 2 (= the length of Header 1)
* lengthFieldLength = 3
* lengthAdjustment = 0
* initialBytesToStrip = 0

* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)

<table>
<thead>
<tr>
<th>Header 1</th>
<th>Length</th>
<th>Actual Content</th>
<th>Header 1</th>
<th>Length</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xCAFE</td>
<td>0x00000C</td>
<td>&quot;HELLO, WORLD&quot;</td>
<td>0xCAFE</td>
<td>0x00000C</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>

* </pre>

* ch3>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 lengthAdjustment so that the decoder counts the extra header into the frame length calculation.

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

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.194 opentracing-contrib-go-observer 0.0.0- 
20170622124052-a52f23424492

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1.195 webencodings 0.5

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from setuptools import setup, find_packages
import io
import os
import re

VERSION = re.search("VERSION = '["]([^"]+)"", io.open(
    path.join(path.dirname(__file__), 'webencodings', '__init__.py'),
    encoding='utf-8'
).read().strip()).group(1)

LONG_DESCRIPTION = io.open(path.join(path.dirname(__file__), 'README.rst'),
    encoding='utf-8').read()

setup(  
    name='webencodings',  
    version=VERSION,  
    url='https://github.com/SimonSapin/python-webencodings',  
    license='BSD',  
    author='Simon Sapin',  
    author_email='simon.sapin@exyr.org',  
    description='Character encoding aliases for legacy web content',  
    long_description=LONG_DESCRIPTION,  
    classifiers=[  
        'Development Status :: 4 - Beta',  
        'Intended Audience :: Developers',  
        'License :: OSI Approved :: BSD License',  
        'Programming Language :: Python :: 2',  
        'Programming Language :: Python :: 3',  
        'Topic :: Internet :: WWW/HTTP',  
    ],  
    packages=find_packages(),
)

Found in path(s):
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar-gz/webencodings-0.5/setup.py
```

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python-webencodings

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

This is a Python implementation of the `WHATWG Encoding standard`_.

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker:
  https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
* License: BSD
* Python 2.6+ and 3.3+

In order to be compatible with legacy web content when interpreting something like `Content-Type: text/html; charset=latin1`, tools need to use a particular set of aliases for encoding labels as well as some overrides.

For example, `US-ASCII` and `iso-8859-1` on the web are actually aliases for `windows-1252`, and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration.

The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Python.

Found in path(s):

* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar.gz/webencodings-0.5/README.rst

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Found in path(s):

* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar.gz/webencodings-0.5/webencodings/labels.py
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar.gz/webencodings-0.5/webencodings/__init__.py
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar.gz/webencodings-0.5/webencodings/tests.py
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar.gz/webencodings-0.5/webencodings/x_user_defined.py

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Metadata-Version: 1.1
Name: webencodings
Version: 0.5
Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
This is a Python implementation of the `WHATWG Encoding standard` http://encoding.spec.whatwg.org/.

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker:
  https://github.com/gsnedders/python-webencodings
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This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Pythons.
Regenerate the webencodings.labels module.

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```python
import json
try:
    from urllib import urlopen
except ImportError:
    from urllib.request import urlopen

def assert_lower(string):
    assert string == string.lower()
    return string

def generate(url):
    parts = ['
    # XXX Do not edit!
    # This file is automatically generated by mklabels.py

    LABELS = {
        ''
    }
    labels = [
        (repr(assert_lower(label)).lstrip('u'),
         repr(encoding['name']).lstrip('u'))
        for category in json.loads(urlopen(url).read().decode('ascii'))
        for encoding in category['encodings']
        for label in encoding['labels']]
    max_len = max(len(label) for label, name in labels)
    parts.extend(
        '    %s:%s %s
' % (label, ' ' * (max_len - len(label)), name)
        for label, name in labels)
    
    webencodings.labels
    
    Map encoding labels to their name.

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    ```
1.196 pcre 8.39-9

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THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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

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

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

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Mortbay

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

org.eclipse.jetty.toolchain.jetty-schemas

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1.200 go-ping-ping 0.0.0-20210506233800-ff8be3320020

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1.201 tomcat-catalina-ha 9.0.63

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1.202 kustomize-api 0.8.11

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Eclipse

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

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

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

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL/GPL.html
* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

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

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

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

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Apache

The following artifacts are ASL2 licensed.

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

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

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

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.211 go 1.16.10

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* /opt/cola/permits/1151781995_1617981755.5/0/netty-transport-native-epoll-4-1-63-final-sources-
jar/io/netty/channel/epoll.Native.java
* /opt/cola/permits/1151781995_1617981755.5/0/netty-transport-native-epoll-4-1-63-final-sources-
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/**
 * Set the {code TCP_MD5SIG} option on the socket. See {code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */
/**
 * Set the {code TCP_QUICKACK} option on the socket.
 * See <a href="https://linux.die.net//man/7/tcp">TCP_QUICKACK</a>
 * for more details.
 */

Found in path(s):
* /opt/cola/permits/1151781995_1617981755.50/netty-transport-native-epoll-4-1-63-final-sources-
jar/io/netty/channel/epoll/EpollSocketChannelConfig.java
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jar/io/netty/channel/epoll/EpollChannelConfig.java
* /opt/cola/permits/1151781995_1617981755.50/netty-transport-native-epoll-4-1-63-final-sources-
jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
* /opt/cola/permits/1151781995_1617981755.50/netty-transport-native-epoll-4-1-63-final-sources-
jar/io/netty/channel/epoll/EpollMode.java
* /opt/cola/permits/1151781995_1617981755.50/netty-transport-native-epoll-4-1-63-final-sources-
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* /opt/cola/permits/1151781995_1617981755.5/0/netty-transport-native-epoll-4-1-63-final-sources-jar/netty_epoll_linuxsocket.c
* /opt/cola/permits/1151781995_1617981755.5/0/netty-transport-native-epoll-4-1-63-final-sources-jar/netty_epoll_linuxsocket.h
* /opt/cola/permits/1151781995_1617981755.5/0/netty-transport-native-epoll-4-1-63-final-sources-jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java
* /opt/cola/permits/1151781995_1617981755.5/0/netty-transport-native-epoll-4-1-63-final-sources-jar/io/netty/channel/epoll/LinuxSocket.java

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* /opt/cola/permits/1151781995_1617981755.5/0/netty-transport-native-epoll-4-1-63-final-sources-
  jar/io/netty/channel/epoll/EpollDatagramChannel.java
* /opt/cola/permits/1151781995_1617981755.5/0/netty-transport-native-epoll-4-1-63-final-sources-
  jar/io/netty/channel/epoll/EpollEventLoop.java
* /opt/cola/permits/1151781995_1617981755.5/0/netty-transport-native-epoll-4-1-63-final-sources-
  jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /opt/cola/permits/1151781995_1617981755.5/0/netty-transport-native-epoll-4-1-63-final-sources-
  jar/io/netty/channel/epoll/EpollListener.java
* /opt/cola/permits/1151781995_1617981755.5/0/netty-transport-native-epoll-4-1-63-final-sources-
  jar/io/netty/channel/epoll/EpollServerSocketChannel.java
* /opt/cola/permits/1151781995_1617981755.5/0/netty-transport-native-epoll-4-1-63-final-sources-
  jar/io/netty/channel/epoll/package-info.java
* /opt/cola/permits/1151781995_1617981755.5/0/netty-transport-native-epoll-4-1-63-final-sources-
  jar/io/netty/channel/epoll/EpollSocketChannel.java
* /opt/cola/permits/1151781995_1617981755.5/0/netty-transport-native-epoll-4-1-63-final-sources-
  jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
* /opt/cola/permits/1151781995_1617981755.5/0/netty-transport-native-epoll-4-1-63-final-sources-
  jar/io/netty/channel/epoll/EpollTcpInfo.java
* /opt/cola/permits/1151781995_1617981755.5/0/netty-transport-native-epoll-4-1-63-final-sources-
  jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /opt/cola/permits/1151781995_1617981755.5/0/netty-transport-native-epoll-4-1-63-final-sources-
  jar/io/netty/channel/epoll/EpollServerSocketChannel.java
* /opt/cola/permits/1151781995_1617981755.5/0/netty-transport-native-epoll-4-1-63-final-sources-
  jar/io/netty/channel/epoll/AbstractEpollChannel.java
* /opt/cola/permits/1151781995_1617981755.5/0/netty-transport-native-epoll-4-1-63-final-sources-
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* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-
  jar/org/apache/log4j/xml/DOMConfigurator.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-
  jar/org/apache/log4j/SimpleLayout.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-
  jar/org/apache/log4j/spi/LoggingEvent.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-
  jar/org/apache/log4j.RollingFileAppender.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-
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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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1.225 hk2-locator 2.5.0

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1.227 jetty-io 9.4.16.v20190411

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* org.eclipse.jetty.orbit:javax.mail.glassfish
Oracle

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

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

Oracle OpenJDK

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* java.sun.security.ssl

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

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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Found in path(s):
* /opt/cola/permits/1168236992_1621962033.53/0/netty-codec-4-1-63-final-jar/META-INF/maven/io.netty/netty-
codec/pom.xml
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Manifest-Version: 1.0
Implementation-Title: Netty/Codec
Bundle-Description: Netty is an asynchronous event-driven network appl
ication framework for rapid development of maintainable high perfo
rmance protocol servers and clients.
Automatic-Module-Name: io.netty.codec
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.codec
Implementation-Version: 4.1.63.Final
Built-By: root
Bnd-LastModified: 1617274774525
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: com.google.protobuf;version="[2.6,3)";resolution:=opti
onal,com.google.protobuf.nano;resolution:=optional,com.jcraft.jzlib;r
esolution:=optional,com.ning.compress;version="[1.0,2)";resolution:=o
ptional,com.ning.compress.lzf;version="[1.0,2)";resolution:=optional,
com.ning.compress.lzf.util;version="[1.0,2)";resolution:=optional,io.
netty.buffer;version="[4,1.5)";io.netty.channel;version="[4,1.5)";io.
netty.channel.socket;version="[4,1.5)";io.netty.util;version="[4,1.5)"
";io.netty.util.concurrent;version="[4,1.5)";io.netty.util.internal;v
ersion="[4,1.5)";io.netty.util.internal.logging;version="[4,1.5)";lzma.
sdk;resolution:=optional,lzma.sdk.lzma;resolution:=optional,net.jpou
untz.lz4;resolution:=optional,net.jpuntz.xxhash;resolution:=optional
,org.jboss.marshalling;resolution:=optional,sun.nio.ch;resolution:=op
tional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org
.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Require-Capability: osgi.ee;filter="(& osgi.ee=JavaSE)(version=1.6)"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Scriptable Install System (NSIS), which is open source software. The original software and related information is available at http://nsis.sourceforge.net.

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org.apache.tomcat.util.json.JSONParser.jj is a public domain javacc grammar for JSON written by Robert Fischer.
https://github.com/RobertFischer/json-parser

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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
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- javaee_5.xsd
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- javaee_6.xsd
- javaee_web_services_1_3.xsd
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- jsp_2_2.xsd
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- 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
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- web-common_3_1.xsd
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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
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- web-app_3_0.xsd
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1.231 gopkg.in-yaml 2.4.0

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1.232 golang-snappy 0.0.1

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1.233 x-sys 0.0.0-20210423185535-09eb48e85fd7

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1.235 jinja2 2.10

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1.237 gpm 1.20.7-5

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jar/joptsimple/AlternativeLongOptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5.0-4-sources-8-
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1.239 cmux 0.1.4
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Version 3.1, 31 March 2009

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Version 2.1, February 1999

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<tbody>
<tr>
<td>mach_override</td>
<td>lib/interception/mach_override</td>
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1.250 go-units 0.4.0

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1.251 go-errors-errors 1.2.0

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1.252 evanphx-json-patch

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1.256 libxml2 2.9.4+dfsg1 6.1ubuntu1.6

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1.257 libxcb 1.13 2~ubuntu18.04

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set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1

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1.259 jetty-security 9.4.35.v20201120

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

------
Oracle OpenJDK
If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

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

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

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

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Apache

The following artifacts are ASL2 licensed.

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

-------

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.260 go-sysconf 0.3.10
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1.261 go 1.13.7

1.261.1 Available under license:

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Eclipse

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

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

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

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

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

------

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

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

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

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

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Apache

The following artifacts are ASL2 licensed.

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

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.
org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.274 jersey-apache-connector 2.25.1

1.275 urfave-cli 1.20.0
1.275.1 Available under license :

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*/

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* /opt/cola/permits/1344982361_1655293790.326259/0/cas-client-support-saml-3-4-1-sources-jar/org/jasig/cas/client/util/SamlUtils.java
* /opt/cola/permits/1344982361_1655293790.326259/0/cas-client-support-saml-3-4-1-sources-jar/org/jasig/cas/client/validation/Saml11TicketValidator.java
* /opt/cola/permits/1344982361_1655293790.326259/0/cas-client-support-saml-3-4-1-sources-jar/org/jasig/cas/client/validation/Saml11TicketValidationFilter.java
* /opt/cola/permits/1344982361_1655293790.326259/0/cas-client-support-saml-3-4-1-sources-jar/org/jasig/cas/client/authentication/Saml11AuthenticationFilter.java

1.276 jersey-container-servlet-core 2.25.1

1.276.1 Available under license:
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http://glassfish.java.net/public/CDDL+GPL_1_1.html

1.277 groupcache 0.0.0-20160516000752-02826c3e7903

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1.278 makenowjust-heredoc 0.0.0-20170808103936-bb23615498cd

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var comments_shortname = 'httpd';
var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
(function(w, d) { if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
    d.write('<div id="comments_thread"></div>');
    var s = d.createElement('script');
    s.type = 'text/javascript';
    s.async = true;
    s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&&page=' + comments_identifier;
    (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
} else {
    d.write('<div id="comments_thread">Comments are disabled for this page at the moment.</div>');
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/*

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)

*/

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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, 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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1.308 ubuntu-keyring 2018.09.18.1~18.04.0

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1.309 net-tools 1.60+git20161116.90da8a0
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1.312 keyutils 1.5.9 9.2ubuntu2.1

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Eclipse

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

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

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

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Oracle

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

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

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

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

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OW2
The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

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

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Apache

The following artifacts are ASL2 licensed.

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

-----
MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

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

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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1.315 rocksdbjni 6.22.1.1

1.316 golang-glog 0.0.0-20160126235308-23def4e6c14b

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1.317 spew 1.1.1

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1.319 snake-yaml 1.26

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

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If 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.

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

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

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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
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1.325 jline-reader 3.12.1

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* /opt/cola/permits/1260642180_1643189485.8/0/jline-reader-3-12-1-sources-jar/org/jline/reader/impl/DefaultHighlighter.java
* /opt/cola/permits/1260642180_1643189485.8/0/jline-reader-3-12-1-sources-jar/org/jline/reader/impl/completer/EnumCompleter.java
* /opt/cola/permits/1260642180_1643189485.8/0/jline-reader-3-12-1-sources-jar/org/jline/reader/Macro.java
* /opt/cola/permits/1260642180_1643189485.8/0/jline-reader-3-12-1-sources-jar/org/jline/reader/package-info.java
* /opt/cola/permits/1260642180_1643189485.8/0/jline-reader-3-12-1-sources-jar/org/jline/reader/ReaderUtils.java
* /opt/cola/permits/1260642180_1643189485.8/0/jline-reader-3-12-1-sources-jar/org/jline/reader/Reference.java
* /opt/cola/permits/1260642180_1643189485.8/0/jline-reader-3-12-1-sources-jar/org/jline/reader/Widget.java
* /opt/cola/permits/1260642180_1643189485.8/0/jline-reader-3-12-1-sources-jar/org/jline/reader/impl/completer/AggregateCompleter.java
* /opt/cola/permits/1260642180_1643189485.8/0/jline-reader-3-12-1-sources-jar/org/jline/reader/impl/completer/NullCompleter.java
* /opt/cola/permits/1260642180_1643189485.8/0/jline-reader-3-12-1-sources-jar/org/jline/reader/EndOfFileException.java
* /opt/cola/permits/1260642180_1643189485.8/0/jline-reader-3-12-1-sources-jar/org/jline/reader/Expander.java
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* /opt/cola/permits/1260642180_1643189485.8/0/jline-reader-3-12-1-sources-jar/org/jline/reader/EOFError.java

1.326 python-pam 1.8.4

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io.helidon.config.yaml.internal.YamlFileTypeDetector

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* /opt/cola/permits/1212207596_1633726302.78/0/helidon-config-yaml-1-2-0-sources-1-jar/META-INF/services/java.nio.file.spi.FileTypeDetector

1.332 e2fsprogs 1.44.1 1ubuntu1.1
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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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*/
Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
*/
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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Theodore Ts'o
23-June-2007

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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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That's all there is to it!

This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library. It is currently
distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image::$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \n$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB) \n@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
This is the Debian GNU/Linux prepackaged version of the Common Error
Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Gadi Oxman, August 1995

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<signature of Ty Coon>, 1 April 1989
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1.333 patch 2.7.6 2ubuntu1.1
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1.338 bzip2 1.0.8

1.339 x-net 0.0.0-20190813141303-74dc4d7220e7

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1.340 opencontainers-go-digest 1.0.0

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1.341 logback-json-core 0.1.5

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1.342 python-setuptools 39.0.1

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https://www.eclipse.org/jdt/core/.

org.apache.tomcat.util.json.JSONParser.jj is a public domain javacc grammar
for JSON written by Robert Fischer.
https://github.com/RobertFischer/json-parser
For portions of the Tomcat JNI OpenSSL API and the OpenSSL JSSE integration
The org.apache.tomcat.jni and the org.apache.tomcat.net.openssl packages
are derivative work originating from the Netty project and the finagle-native
project developed at Twitter
* Copyright 2014 The Netty Project
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For portions of the Tomcat cloud support
The org.apache.catalina.tribes.membership.cloud package contains derivative
work originating from the jgroups project.
https://github.com/jgroups-extras/jgroups-kubernetes
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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

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- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
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- javaee_7.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
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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
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1.344 jakarta-inject 2.5.0
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1.345 jinja2 3.0.3
1.345.1 Available under license:
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No license file was found, but licenses were detected in source scan.

[metadata]
name = Jinja2
version = attr: jinja2.__version__
url = https://palletsprojects.com/p/jinja/
project_urls =
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  Documentation = https://jinja.palletsprojects.com/
  Changes = https://jinja.palletsprojects.com/changes/
  Source Code = https://github.com/pallets/jinja/
  Issue Tracker = https://github.com/pallets/jinja/issues/
  Twitter = https://twitter.com/PalletsTeam
  Chat = https://discord.gg/pallets
license = BSD-3-Clause
license_files = LICENSE.rst
author = Armin Ronacher
author_email = armin.ronacher@active-4.com
maintainer = Pallets
maintainer_email = contact@palletsprojects.com
description = A very fast and expressive template engine.
long_description = file: README.rst
long_description_content_type = text/x-rst
classifiers =
  Development Status :: 5 - Production/Stable
  Environment :: Web Environment
  Intended Audience :: Developers
  License :: OSI Approved :: BSD License
  Operating System :: OS Independent
  Programming Language :: Python
  Topic :: Internet :: WWW/HTTP :: Dynamic Content
  Topic :: Text Processing :: Markup :: HTML

[options]
packages = find:
package_dir = = src
include_package_data = true
python_requires = >= 3.6

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[options.entry_points]
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testpaths = tests
filterwarnings =
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ignore:The loop argument:DeprecationWarning:asynio[.]base_events:542

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source =
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tests

[coverage:paths]
source =
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[flake8]
select = B, E, F, W, B9, ISC
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[mypy]
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noImplicitReexport = False
[mypy-markupsafe]
no_implicit_reexport = False

[egg_info]
tag_build =
tag_date = 0

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* /opt/cola/permits/1226358395_1636965021.11/0/jinja2-3.0.3.tar.gz/Jinja2-3.0.3/setup.cfg
No license file was found, but licenses were detected in source scan.

Metadata-Version: 2.1
Name: Jinja2
Version: 3.0.3
Summary: A very fast and expressive template engine.
Home-page: https://palletsprojects.com/p/jinja/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets
Maintainer-email: contact@palletsprojects.com
License: BSD-3-Clause
Project-URL: Changes, https://jinja.palletsprojects.com/changes/
Project-URL: Twitter, https://twitter.com/PalletsTeam
Project-URL: Chat, https://discord.gg/pallets
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/ Stable
Classifier: Environment :: Web Environment
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Topic :: Internet :: WWW/ HTTP :: Dynamic Content
Classifier: Topic :: Text Processing :: Markup :: HTML
Requires-Python: >=3.6
Description-Content-Type: text/x-rst
Provides-Extra: i18n
License-File: LICENSE.rst

Jinja
=====

Jinja is a fast, expressive, extensible templating engine. Special
placeholders in the template allow writing code similar to Python
syntax. Then the template is passed data to render the final document.
It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- I18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja's philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by restricting functionality too much.

Installing
----------

Install and update using `pip`:

.. code-block:: text

   $ pip install -U Jinja2


In A Nutshell
-------------

.. code-block:: jinja

   {% extends "base.html" %
   {% block title %}Members{% endblock %
   {% block content %
   <ul>
   {% for user in users %}
   <li><a href="{{ user.url }}">{{ user.username }}</a></li>
   {% endfor %}
   </ul>
   {% endblock %

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------

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Links
-----

- Documentation: https://jinja.palletsprojects.com/
- Changes: https://jinja.palletsprojects.com/changes/
- PyPI Releases: https://pypi.org/project/Jinja2/
- Source Code: https://github.com/pallets/jinja/
- Issue Tracker: https://github.com/pallets/jinja/issues/
- Website: https://palletsprojects.com/p/jinja/
- Twitter: https://twitter.com/PalletsTeam
- Chat: https://discord.gg/pallets

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1.346 distlib 0.2.6

1.346.1 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.

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- Pior Bastida
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* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/JLong.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/JCompType.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/JFloat.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/Utils.java
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* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/CppGenerator.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/JMap.java
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* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/generated/ParseException.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/generated/Token.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/generated/Rcc.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/generated/TokenMgrError.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/generated/RccConstants.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/generated/SimpleCharStream.java

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* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/server/quorum/QuorumPacket.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/txn/ErrorTxn.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/CreateTTLRequest.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/GetMaxChildrenResponse.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/SyncResponse.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/txn/DeleteTxn.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/txn/MultiTxn.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/data/Stat.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/txn/SetDataTxn.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/txn/TxnDigest.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/txn/Txn.java
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options {
  STATIC=false;
}

PARSER_BEGIN(Rcc)
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package org.apache.jute.compiler.generated;

import org.apache.jute.compiler.*;
import java.util.ArrayList;
import java.util.Hashtable;
import java.io.File;
import java.io.FileReader;
import java.io.FileNotFoundException;
import java.io.IOException;
@SuppressWarnings("unused")
public class Rcc {
    private static Hashtable<String, JRecord> recTab = new Hashtable<String, JRecord>();
private static String curDir = System.getProperty("user.dir");
private static String curFileName;
private static String curModuleName;

public static void main(String args[]) {
    String language = "java";
    ArrayList<String> recFiles = new ArrayList<String>();
    JFile curFile=null;

    for (int i=0; i<args.length; i++) {
        if ("-l".equalsIgnoreCase(args[i]) ||
            "--language".equalsIgnoreCase(args[i])) {
            language = args[i+1].toLowerCase();
            i++;
        } else {
            recFiles.add(args[i]);
        }
    }

    if (!"c++".equals(language) && !"java".equals(language) && !"c".equals(language)) {
        System.out.println("Cannot recognize language:");
        System.exit(1);
    }

    if (recFiles.size() == 0) {
        System.out.println("No record files specified. Exiting.");
        System.exit(1);
    }

    for (int i=0; i<recFiles.size(); i++) {
        curFileName = recFiles.get(i);
        File file = new File(curFileName);
        try {
            curFile = parseFile(file);
        } catch (FileNotFoundException e) {
            System.out.println("File Not found.");
            System.exit(1);
        } catch (ParseException e) {
            System.out.println(e.toString());
            System.exit(1);
        }
        System.out.println(curFileName + " Parsed Successfully");
        try {
            curFile.genCode(language, new File("."));
        } catch (IOException e) {
            System.out.println(e.toString());
            System.exit(1);
        }
    }
}
public static JFile parseFile(File file) throws FileNotFoundException, ParseException {
    curDir = file.getParent();
    curFileName = file.getName();
    FileReader reader = new FileReader(file);
    try {
        Rcc parser = new Rcc(reader);
        recTab = new Hashtable<String, JRecord>();
        return parser.Input();
    } finally {
        try {
            reader.close();
        } catch (IOException e) {
        }
    }
}

PARSER_END(Rcc)

SKIP :
{
    " "
    | "\t"
    | "\n"
    | "\r"
}

SPECIAL_TOKEN :
{
    "//" : WithinOneLineComment
}

<WithinOneLineComment> SPECIAL_TOKEN :
{
    +/-[ ]+ : DEFAULT
}

<WithinOneLineComment> MORE :
{
    "[~]*[
}

SPECIAL_TOKEN :
{
    "/*" : WithinMultiLineComment
}

<WithinMultiLineComment> SPECIAL_TOKEN :
JFile Input():
{
    ArrayList<JFile> ilist = new ArrayList<JFile>();
    ArrayList<JRecord> rlist = new ArrayList<JRecord>();
    JFile i;
    ArrayList<JRecord> l;
}
{
    (i = Include())
    { ilist.add(i); }
    l = Module()
    { rlist.addAll(l); }
JFile Include() :
{
    String fname;
    Token t;
}

{<INCLUDE_TKN>
  t = <CSTRING_TKN>

  JFile ret = null;
  fname = t.image.replaceAll("^"", "").replaceAll("\$","");
  File file = new File(curDir, fname);
  String tmpDir = curDir;
  String tmpFile = curFileName;
  curDir = file.getParent();
  curFileName = file.getName();
  try {
      FileReader reader = new FileReader(file);
      Rcc parser = new Rcc(reader);
      try {
          ret = parser.Input();
          System.out.println(fname + " Parsed Successfully");
      } catch (ParseException e) {
          System.out.println(e.toString());
          System.exit(1);
      }
      try {
          reader.close();
      } catch (IOException e) {
      }
  } catch (FileNotFoundException e) {
      System.out.println("File " + fname + " Not found.");
      System.exit(1);
  }
  curDir = tmpDir;
  curFileName = tmpFile;
  return ret;
}

ArrayList<JRecord> Module() :
{
}
String mName;
ArrayList<JRecord> rlist;

{<MODULE_TKN>
 mName = ModuleName()
 { curModuleName = mName; }
<LBRACE_TKN>
 rlist = RecordList()
<RBRACE_TKN>
 { return rlist; }
}

String ModuleName() :
{
 String name = "";
 Token t;
}

{<IDENT_TKN>
 name += t.image; }
( <DOT_TKN>
 t = <IDENT_TKN>
 { name += "." + t.image; }
)*
 { return name; }
}

ArrayList<JRecord> RecordList() :
{
 ArrayList<JRecord> rlist = new ArrayList<JRecord>();
 JRecord r;
}

{<IDENT_TKN>
 r = Record()
 { rlist.add(r); }
}+
 { return rlist; }
}

JRecord Record() :
{
 String rname;
 ArrayList<JField> flist = new ArrayList<JField>();
 Token t;
 JField f;
JField Field() :
{
    JType jt;
    Token t;
}
{
    jt = Type()
    t = IDENT_TKN
    { return new JField(jt, t.image); }
}

JType Type() :
{
    JType jt;
    Token t;
    String rname;
}
{
    jt = Map()
    { return jt; }
    jt = Vector()
    { return jt; }
    <BYTE_TKN>
    { return new JByte(); }
    <BOOLEAN_TKN>
    { return new JBoolean(); }
    <INT_TKN>
    { return new JInt(); }
    <RECORD_TKN>
    t = IDENT_TKN
    { rname = t.image; }
    <LBRACE_TKN>
    (f = Field()
        { flist.add(f); }
        <SEMICOLON_TKN>
    )+
    <RBRACE_TKN>
    {
        String fqn = curModuleName + "." + rname;
        JRecord r = new JRecord(fqn, flist);
        recTab.put(fqn, r);
        return r;
    }
}
| <LONG_TKN> |
| { return new JLong(); } |
| <FLOAT_TKN> |
| { return new JFloat(); } |
| <DOUBLE_TKN> |
| { return new JDouble(); } |
| <USTRING_TKN> |
| { return new JString(); } |
| <BUFFER_TKN> |
| { return new JBuffer(); } |
| rname = ModuleName() |
| { |
| if (rname.indexOf('.', 0) < 0) { |
|     rname = curModuleName + "." + rname; |
| } |
| JRecord r = recTab.get(rname); |
| if (r == null) { |
|     System.out.println("Type " + rname + " not known. Exiting."); |
|     System.exit(1); |
| } |
| return r; |
| } |

JMap Map() :
|
| { |
|     JType jt1;
|     JType jt2;
| } |
|<MAP_TKN> |
|<LT_TKN> |
|     jt1 = Type() |
|<COMMA_TKN> |
|     jt2 = Type() |
|<GT_TKN> |
|     { return new JMap(jt1, jt2); } |
|

JVector Vector() :
|
| { |
|     JType jt;
| } |
|<VECTOR_TKN> |
|<LT_TKN> |
|     jt = Type() |
|<GT_TKN> |
{ return new JVector(jt); }

Found in path(s):
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/generated/rcc.jj

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1.352 jackson-datatype-jdk8 2.9.10
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1.353 dpkg 1.19.0.5ubuntu2.3
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Last revised by Reagle $Date: 2005-07-19 12:33:09 -0400 (Tue, 19 Jul 2005) $

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1.374 jwalterweatherman 1.0.0

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1.375 opencontainers-image-spec 1.0.2

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1.376 jackson-dataformat-yaml 2.11.2

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1.377 jinja2 2.10-1.ph3
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1.383 six 1.11.0-2

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core
The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

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

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Oracle

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

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

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

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

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

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

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Apache
The following artifacts are ASL2 licensed.

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

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

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

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.393 dropwizard-jackson 1.3.29

1.393.1 Available under license:
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1.394 gopacket 1.1.17

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1.395 hk2-api 2.6.1

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- javaee_web_services_1_3.xsd
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- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
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1.401 curl 7.58.0-2ubuntu3.19

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License Mixing
=============

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html) licensed code is not allowed to be linked with code licensed under the [Original BSD license](https://spdx.org/licenses/BSD-4-Clause.html) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an [exception](https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs). This particular problem was addressed when the [Modified BSD license](https://opensource.org/licenses/BSD-3-Clause) was created, which does not have the announcement clause that collides with GPL.

## libcurl

Uses an [MIT style license](https://curl.haxx.se/docs/copyright.html) that is very liberal.

## OpenSSL

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### 1.402 python-requests 2.18.4

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Found in path(s):
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http2/Settings.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Dns.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/connection/RouteSelector.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/OkHttpClient.java

1.404 libxi 1.7.9-1

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1.405 findutils 4.6.0+git+20170828 2

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jar/io/netty/handler/traffic/TrafficCounter.java
* /opt/cola/permits/1267543732_1644318309.15/0/netty-handler-4-1-73-final-sources-
jar/io/netty/handler/traffic/package-info.java
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  jar/io/netty/handler/ssl/SslMasterKeyHandler.java
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  jar/io/netty/handler/address/DynamicAddressConnectHandler.java
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  jar/io/netty/handler/ssl/util/TrustManagerFactoryWrapper.java
* /opt/cola/permits/1267543732_1644318309.15/0/netty-handler-4-1-73-final-sources-
  jar/io/netty/handler/ssl/util/KeyManagerFactoryWrapper.java
* /opt/cola/permits/1267543732_1644318309.15/0/netty-handler-4-1-73-final-sources-
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jar/io/netty/handler/pcap/PcapWriteHandler.java
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jar/io/netty/handler/pcap/UDPPacket.java
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jar/io/netty/handler/pcap/PcapHeaders.java
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jar/io/netty/handler/pcap/PcapWriter.java
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jar/io/netty/handler/pcap/EthernetPacket.java
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jar/io/netty/handler/pcap/package-info.java
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* /opt/cola/permits/1267543732_1644318309.15/0/netty-handler-4-1-73-final-sources.jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java
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* /opt/cola/permits/1267543732_1644318309.15/0/netty-handler-4-1-73-final-sources.jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
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* /opt/cola/permits/1267543732_1644318309.15/0/netty-handler-4-1-73-final-sources-jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
* /opt/cola/permits/1267543732_1644318309.15/0/netty-handler-4-1-73-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /opt/cola/permits/1267543732_1644318309.15/0/netty-handler-4-1-73-final-sources-jar/io/netty/handler/ssl/SslContextBuilder.java
jar/io/netty/handler/ssl/ClientAuth.java
* /opt/cola/permits/1267543732_1644318309.15/0/netty-handler-4-1-73-final-sources-
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  jar/io/netty/handler/stream/package-info.java
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@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

@smlalexample
@group
Copyright (C) @var{year} @var{your name}.
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@end group
@end smlalexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the ``with@dots{}Texts.''@: line with this:

@smlalexample
@group
with the Invariant Sections being @var{list their titles}, with the Front-Cover Texts being @var{list}, and with the Back-Cover Texts being @var{list}.
@end group
@end smlalexample

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

@local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some
specially designated Free Software Foundation software, and to any
other libraries whose authors decide to use it. You can use it for
your libraries, too.

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with the library, after making changes to the library and recompiling
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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.
Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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

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

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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.)

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under the scope of this License.

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

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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.

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

6. As an exception to the Sections above, you may also compile 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:

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b) 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.

c) 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.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. 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.

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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Version 3, 29 June 2007

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Preamble

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or can get the source code. And you must show them these terms so they
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Developers that use the GNU GPL protect your rights with two steps:
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For the developers' and authors' protection, the GPL clearly explains
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authors' sake, the GPL requires that modified versions be marked as
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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 ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

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

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

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

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public, and in some countries other activities as well.

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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.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

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.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those
subprograms and other parts of the work.

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

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2. Basic Permissions.

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5. Conveying Modified Source Versions.

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a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users
6. Conveying Non-Source Forms.

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Eclipse

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

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

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

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Oracle

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

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

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

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

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OW2
The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

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

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Apache

The following artifacts are ASL2 licensed.

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

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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1.413 squirrel 1.5.2

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1.414 tomcat-dbcp 9.0.63

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1.415 python-requests 2.26.0

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1.416 apt 1.6.14

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=head1 NAME

File::FcntlLock - File locking with L<fcntl(2)>  

This text also documents the following sub-packages:

=over 2
=item File::FcntlLock::XS
=item File::FcntlLock::Pure
=item File::FcntlLock::Inline
=back

=head1 SYNOPSIS

use File::FcntlLock;

my $fs = new File::FcntlLock;
$fs->l_type( F_RDLCK );
$fs->l_whence( SEEK_CUR );
$fs->l_start( 100 );
$fs->l_len( 123 );

open my $fh, '<', 'file_name' or die "Can't open file: $!\n"
$fs->lock( $fh, F_SETLK )
    or print "Locking failed: " . $fs->error . "\n";
$fs->l_type( F_UNLCK );
$fs->lock( $fh, F_SETLK )
    or print "Unlocking failed: " . $fs->error . "\n";
File locking in Perl is usually done using the C<flock> function. Unfortunately, this only allows locks on whole files and is often implemented in terms of the L<flock(2)> system function which has some shortcomings (especially concerning locks on remotely mounted file systems) and slightly different behaviour than L<fcntl(2)>.

Using this module file locking via L<fcntl(2)> can be done (obviously, this restricts the use of the module to systems that have a L<fcntl(2)> system call). Before a file (or parts of a file) can be locked, an object simulating a flock structure, containing information in a binary format to be passed to L<fcntl(2)> for locking requests, must be created and its properties set. Afterwards, by calling the L<lock()> method a lock can be set and removed or it can be determined if and which process currently holds the lock.

File::FcntlLock (or its alias File::FcntlLock::XS) uses a shared library, build during installation, to call the L<fcntl(2)> system function directly. If this is unsuitable there are two alternatives, File::FcntlLock::Pure and File::FcntlLock::Inline. Both call the Perl C<fcntl> function instead and use Perl code to assemble and disassemble the structure. For this at some time the (system-dependent) binary layout of the flock structure must have been determined via a program written in C. The difference between File::FcntlLock::Pure and File::FcntlLock::Inline is that for the former this happened when the package is installed while for the latter it is done each time the package is loaded (e.g., with C<use>). Thus, for File::FcntlLock::Inline to work a C compiler must be available. There are some minor differences in the functionality and the behaviour on passing the method for locking invalid arguments to be described below.

=head2 Creating objects

=item C<new()>  
To create a new object, representing a flock structure, call L<new()>:

$fs = new File::FcntlLock;

The object has a number of properties, reflecting the members of the flock structure to be passed to L<fcntl(2)> (see below). Per default on object creation the L<l_type> property is set to C<F_RDLCK>, L<l_whence> to C<SEEK_SET>, and both L<l_start> and L<l_len> to 0.
i.e., the settings for a read lock on the whole file.

These defaults can be overruled by passing the `new()` method a set of key-value pairs to initialize the objects properties, e.g. use

```perl
$fs = new File::FcntlLock( l_type => F_WRLCK,
    l_whence => SEEK_SET,
    l_start => 0,
    l_len   => 100 );
```

if you intend to obtain a write lock for the first 100 bytes of a file.

=head2 Object properties

Once the object simulating the flock structure has been created the following methods allow to query and, in most cases, to also modify its properties.

=over 4

=item C<l_type()>

If called without an argument the method returns the current setting of the lock type, otherwise the lock type is set to the argument's value which must be either C<F_RDLCK>, C<F_WRLCK> or C<F_UNLCK> (for read lock, write lock or unlock).

=item C<l_whence()>

This method sets, when called with an argument, the L<l_whence> property of the flock object, determining if the L<l_start> value is relative to the start of the file, to the current position in the file or to the end of the file. These values are C<SEEK_SET>, C<SEEK_CUR> and C<SEEK_END> (also see the man page for L<lseek(2)>).

If called with no argument the current value of the property is returned.

=item C<l_start()>

Queries or sets the start position (offset) of the lock in the file according to the mode selected by the L<l_whence> member. See also the man page for L<lseek(2)>.

=item C<l_len()>

Queries or sets the length of the region (in bytes) in the file to be locked. A value of 0 is interpreted to mean a lock, starting at C<l_start>, to the end of the file. E.g., a lock obtained with L<l_whence> set to C<SEEK_SET> and both L<l_start> and L<l_len> set to 0 locks the complete file.

According to SUSv3 support for negative values for L<l_len> are permitted, resulting in a lock ranging from C<l_start+l_len> up to and including C<l_start-1>. But not all systems support negative values for L<l_len> and will return an error when you try to obtain such a lock, so please read the L<fcntl(2)> man page of the system carefully for details.

=itm C<l_pid()> if a call of the L<lock()> method with C<F_GETLK> indicates that another process is holding the lock (in which case the L<l_type> property will be either C<F_WRLCK> or C<F_RDLCK>) a call of the L<l_pid()> method returns the PID of the process holding the lock. This method does not accept any arguments.

=back

=head2 Locking

After having set up the object representing a flock structure one can then try to obtain a lock, release it or determine the current holder of the lock by invoking the L<lock()> method:

=over 4

=item C<lock()> This method expects two arguments. The first one is a file handle (or typeglob). File::FcntlLock, and thus File::FcntlLock::XS (B<but neither> File::FcntlLock::Pure B<nor> File::FcntlLock::Inline), also accepts a "raw" integer file descriptor. The second argument is a flag indicating the action to be taken. So call it as in

$fs->lock( $fh, F_SETLK );

There are three values that can be used as the second argument:

=over 4

=item C<F_SETLK>

With C<F_SETLK> the L<lock()> method tries to obtain a lock (when
L<l_type> is set to either C<F_WRLCK> or C<F_RDLCK>) or releases it (if L<l_type> is set to C<F_UNLCK>). If an attempt is made to obtain a lock but a lock is already being held by some other process the method returns C<undef> and C<errno> is set to C<EACCESS> or C<EAGAIN> (please see the the man page for L<fcntl(2)> for more details).

=item C<F_SETLKW>

is similar to C<F_SETLK>, but instead of returning an error if the lock can't be obtained immediately it puts the calling process to sleep, i.e., it blocks, until the lock is obtained at some later time. If a signal is received while waiting for the lock the method returns C<undef> and C<errno> is set to C<EINTR>.

=item C<F_GETLK>

With C<F_GETLK> the L<lock()> method determines if and which process currently is holding the lock. If there's no other lock the L<l_type> property will be set to C<F_UNLCK>. Otherwise the flock structure object is set to the values that would prevent us from obtaining a lock. There may be several processes that keep us from getting a lock, including some that themselves are blocked waiting to obtain a lock. C<F_GETLK> will only make details of one of these processes visible, and one has no control over which process this is.

=back

On success the L<lock()> method returns the string "0 but true", i.e., a value that is true in boolean but 0 in numeric context. If the method fails (as indicated by an C<undef> return value) you can either immediately evaluate the error number (using $!, $ERRNO or $OS_ERROR) or check for it via the methods discussed below at some later time.

=back

=head2 Error handling

There are minor differences between File::FcntlLock on the one hand and File::FcntlLock::Pure and File::FcntlLock::Inline on the other, due to the first calling the system function L<fcntl(2)> directly while the latter two invoke the Perl C<fcntl> function. Perl's C<fcntl> function already returns a Perl error on some types of invalid arguments. In contrast File::FcntlLock passes them on to the L<fcntl(2)> system call and then returns the systems response to the caller.
There are three methods for obtaining information about the reason a call of the `lock()` method failed:

- **item C<lock_errno()>**
  Returns the C<errno> error number from the latest call of `lock()`.
  If the last call did not result in an error C<undef> is returned.

- **item C<error()>**
  Returns a short description of the error that happened during the latest call of `lock()`. Please take the messages with a grain of salt, they represent what SUSv3 (IEEE 1003.1-2001) and the Linux, TRUE64, OpenBSD3 and Solaris8 man pages tell what the error numbers mean. There could be differences (and additional error numbers) on other systems. If there was no error the method returns C<undef>.

- **item C<system_error()>**
  While the `error()` method tries to return a string with some direct relevance to the locking operation (i.e., "File or segment already locked by other process(es)" instead of "Permission denied") this method returns the "normal" system error message associated with C<errno>. The method returns C<undef> if there was no error.

The package exports the following constants:

- **item F_GETLK F_SETLK F_SETLKW**
- **item F_RDLCK F_WRLCK F_UNLCK**
- **item SEEK_SET SEEK_CUR SEEK_END**

**head1 INCOMPATIBILITIES**
Obviously, this module requires that there’s a `fcntl(2)` system call. Note also that under certain circumstances the `File::FcntlLock::Pure` and `File::FcntlLock::Inline` modules may not have been installed. This happens on 32-bit systems that use 64-bit integers in their flock structure but where the installed Perl version doesn't support the ‘q’ format for its `pack` and `unpack` functions.

=head1 CREDITS

Thanks to Mark Jason Dominus and Benjamin Goldberg for helpful discussions, code examples and encouragement. Glenn Herteg pointed out several problems and also helped improve the documentation. Julian Moreno Patino helped correcting the documentation and pointed out problems arising on GNU Hurd which seems to have only very rudimentary support for locking with `fcntl(2)`. Niko Tyni and Guillem Jover encouraged and helped with implementing alternatives to an XS-only approach which hopefully will make the module more useful under certain circumstances.

=head1 AUTHOR

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=head1 SEE ALSO

`perl(1)`, `fcntl(2)`, `lseek(2)`.

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

File::FcntlLock is a module to do file locking in an object oriented fashion using the fcntl(2) system call. This allows locks on parts of a file as well as on the whole file and overcomes some known problems with flock(2), on which Perl's flock() function is based per default.

Since version 0.15 there are three slightly different ways this can be done with using this package. Per default a method is used where a shared library build creation of the package is called from the Perl code to invoke the fcntl(2) system function. This method can also be used by employing the File::FcntlLock::XS module (which basically an alias for File::FcntlLock). Two further methods instead use calls of the Perl fcntl() function. In both cases at some time a C program must be run to determine the binary layout of the C flock struct used by fcntl() for locking. For the one package, File::FcntlLock::Pure, this is done while making the package. For the other, File::FcntlLock::Inline, this happens each time the package is loaded (e.g. with the 'use' function). Of course, for this to work a C compiler must be installed on the system!

Unfortunately, there seem to be a few 32-bit systems where the off_t type, used in the flock struct, is a 64-bit integer but which use a Perl version that hasn't 64-bit support enabled. On these systems the 'q' format for Perl's pack() and unpack() function isn't available and thus a "pure Perl" approach is thus not possible. On such systems the File::FcntlLock::Pure and File::FcntlLock::Inline modules won't get installed.

PORTABILITY

To use the module the system must support the fcntl() system call which probably will restrict its use to POSIX compliant systems.

INSTALLATION

To install this module type the following:

    perl Makefile.PL
    make
    make test
make install

DEPENDENCIES

The module requires the following other modules:

POSIX, Errno, Carp, Exporter, DynaLoader

To install the module(s) a C compiler must be available and the system must support the use of shared libraries (or DLLs). For File::FcntlFlock::Inline the C compiler must also be available when the module is used. The installation of the File::FcntlLock::Pure and File::FcntlLock::Inline modules require that the Perl pack() and unpack() function support the 'q' format if the off_t type on the system is 64-bit wide.

ACKNOWLEDGMENTS

Thanks to Mark Jason Dominus and Benjamin Goldberg for helpful discussions, code examples and encouragement. Glenn Herteg pointed out several problems and also helped improve the documentation. Julian Moreno Patino helped correcting the documentation and pointed out problems arising on GNU Hurd (which seems to have only very rudimentary support for locking with fcntl(2), at least at that time). Niko Tyni and Guillem Jover encouraged and helped with implementing alternatives to a XS-only approach which hopefully will make the module more useful under certain circumstances.

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1.432 shadow 4.5-1ubuntu2.2

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Marc Abramowitz
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auto_right_margin, am, am
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can_change, ccc, cc
ceol_standout_glitch, xhp, xs
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insert_character, ich1, ic
insert_line, il1, al
insert_padding, ip, ip
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key_a3, ka3, K3
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key_sright, kRIT, %i
key_sresume, kRES, %j
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key_ssuspend, kSPD, !2
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key_sundo, kUND, !3
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key.undo, kund, &8
key_up, kcuu1, ku
keypad_local, rmkx, ke
keypad_xmit, smkx, ks
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lab_f1, lf1, 11
lab_f10, lf10, la
lab_f2, lf2, 12
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lab_f4, lf4, 14
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micro_down, mcud1, ZZ
micro_left, mcub1, Za
micro_right, mcuf1, Zb
micro_row_address, mvpa, Zc
micro_up, mcuu1, Zd
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order_of_pins, porder, Ze
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key_mouse, kmouse, Km
mouse_info, minfo, Mi
pc_term_options, pterm, S6
pkey_plab, pxl, xl
req_mouse_pos, reqmp, RQ
scancode_escape, sce, s7
set0_des_seq, s0ds, s0
set1_des_seq, s1ds, s1
set2_des_seq, s2ds, s2
set3_des_seq, s3ds, s3
set_a_background, setab, AB
set_a_foreground, setaf, AF
set_color_band, setcolor, Yz
set_lr_margin, smglr, ML
set_page_length, slines, YZ
set_tb_margin, smgtb, MT
enter_horizontal_hl_mode, ehhlm, Xh
enter_left_hl_mode, elhlm, Xl
enter_low_hl_mode, eloindent, Xo
enter_right_hl_mode, erhlm, Xr
enter_top_hl_mode, ethlm, Xt
enter_vertical_hl_mode, evhlm, Xv
set_a_attributes, sgr1, sA
set_pglen_inch, slength, sL

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teal
silver
grey
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yellow
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fuchsia
aqua
white
grey0
navyblue
darkblue
blue3
blue3a
blue1
darkgreen
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deepskyblue4a
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dodgerblue3
dodgerblue2
green4
springgreen4
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1.450 keyutils 1.5.9 9.2ubuntu2

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```
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1.462 simpleclient-hotspot 0.0.26
1.462.1 Available under license:
   Apache-2.0

1.463 python 2.7.15~rc1-1
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This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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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.

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dh_python2, pycompile, pyclean and debpython module:

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Subject: Re: XZ utils for Debian
Date: Sun, 19 Jul 2009 13:28:23 +0300
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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Java compilation software for JSP pages is provided by the Eclipse
JDT Core Batch Compiler component, which is open source software.
The original software and related information is available at
https://www.eclipse.org/jdt/core/.

org.apache.tomcat.util.json.JSONParser.jj is a public domain javacc grammar
for JSON written by Robert Fischer.
https://github.com/RobertFischer/json-parser

For portions of the Tomcat JNI OpenSSL API and the OpenSSL JSSE integration
The org.apache.tomcat.jni and the org.apache.tomcat.net.openssl packages
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The original XML Schemas for Java EE Deployment Descriptors:
- javaee_5.xsd
- javaee_web_services_1_2.xsd
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- 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_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-common_3_0.xsd
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- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
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- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- 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
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------------------------------------------------------------------------------

tools/shhopt.c, tools/shhopt.h:

Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both traditional one-character options, and GNU'ish --long-options.

Keywords: programming, library, lib, commandline, options

Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)

Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/
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Platforms: Requires ANSI C-compiler.

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core
The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

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

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Oracle

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

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

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

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

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

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

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Apache
The following artifacts are ASL2 licensed.

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

-----
MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

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

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.
1.486 configparser 5.2.0

1.486.1 Available under license:

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1.487 modern-go-reflect2 1.0.1

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1.488 cloud-google-com-go 0.99.0

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    //
package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    "google.golang.org/api/iterator"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.DeleteLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
    }
    resp, err := c.Delete(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
}
// TODO: Use resp.
_ = resp

func ExampleLicensesClient_Get() {
  ctx := context.Background()
  c, err := compute.NewLicensesRESTClient(ctx)
  if err != nil {
    // TODO: Handle error.
  }
  defer c.Close()

  req := &computepb.GetLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
  }
  resp, err := c.Get(ctx, req)
  if err != nil {
    // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
  ctx := context.Background()
  c, err := compute.NewLicensesRESTClient(ctx)
  if err != nil {
    // TODO: Handle error.
  }
  defer c.Close()

  req := &computepb.GetIamPolicyLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
  }
  resp, err := c.GetIamPolicy(ctx, req)
  if err != nil {
    // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
}

func ExampleLicensesClient_Insert() {
  ctx := context.Background()
  c, err := compute.NewLicensesRESTClient(ctx)
  if err != nil {
```go
// TODO: Handle error.
}
defer c.Close()

req := &computepb.InsertLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
}
resp, err := c.Insert(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp

func ExampleLicensesClient_List() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &computepb.ListLicensesRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
resp, err := it.Next()
if err == iterator.Done {
break
}
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
}

func ExampleLicensesClient_SetIamPolicy() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
```
defer c.Close()

req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
}
resp, err := c.SetIamPolicy(ctx, req)
if err != nil {
  // TODO: Handle error.
}
// TODO: Use resp.
_= resp
}

func ExampleLicensesClient_TestIamPermissions() {
  ctx := context.Background()
  c, err := compute.NewLicensesRESTClient(ctx)
  if err != nil {
    // TODO: Handle error.
  }
  defer c.Close()

  req := &computepb.TestIamPermissionsLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
  }
  resp, err := c.TestIamPermissions(ctx, req)
  if err != nil {
    // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
  }
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (  
  "context"
)

compute "cloud.google.com/go/compute/apiv1"  
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicenseCodesRESTClient() {  
  ctx := context.Background()  
  c, err := compute.NewLicenseCodesRESTClient(ctx)  
  if err != nil {  
    // TODO: Handle error.  
  }  
  defer c.Close()  
  // TODO: Use client.  
  _ = c  
}

func ExampleLicenseCodesClient_Get() {  
  ctx := context.Background()  
  c, err := compute.NewLicenseCodesRESTClient(ctx)  
  if err != nil {  
    // TODO: Handle error.  
  }  
  defer c.Close()  
  req := &computepb.GetLicenseCodeRequest{  
    // TODO: Fill request struct fields.  
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.  
    }  
  resp, err := c.Get(ctx, req)  
  if err != nil {  
    // TODO: Handle error.  
  }  
  // TODO: Use resp.  
  _ = resp  
}

func ExampleLicenseCodesClient_TestIamPermissions() {  
  ctx := context.Background()  
  c, err := compute.NewLicenseCodesRESTClient(ctx)  
  if err != nil {  
    // TODO: Handle error.  
  }  
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseCodeRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (  
  "bytes"  
  "context"  
  "fmt"  
  "io/ioutil"  
  "math"  
  "net/http"  
  "net/url"

  gax "github.com/googleapis/gax-go/v2"  
  "google.golang.org/api/googleapi"  
  "google.golang.org/api/iterator"  
  "google.golang.org/api/option"  
  "google.golang.org/api/option/internaloption"  
  httptransport "google.golang.org/api/transport/http"  
  computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"  
  "google.golang.org/grpc"  
  "google.golang.org/grpc/metadata"  
  "google.golang.org/protobuf/encoding/protojson"  
  "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
  Delete       []gax.CallOption
  Get          []gax.CallOption
  GetIamPolicy []gax.CallOption
  Insert       []gax.CallOption
  List         []gax.CallOption
  SetIamPolicy []gax.CallOption
  TestIamPermissions []gax.CallOption
}
// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.
    CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}
// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licensesRESTClient struct {
    // The endpoint to connect to.
    endpoint string
    
    // The http client.
    httpClient *http.Client

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)   
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)   
    if err != nil {
        return nil, err
    }

c := &licensesRESTClient{
    endpoint: endpoint,
    httpClient: httpClient,
}
c.setGoogleClientInfo()

    return &LicensesClient{internalClient: c, CallOptions: &LicensesCallOptions{}}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
    }
}
// setGoogleClientInfo sets the name and version of the application in
// the 'x-goog-api-client' header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "gapic", c.versionClient, "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection returns a connection to the API service.
// Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    baseUrl, _ := url.Parse(c.endpoint)
    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }
    baseUrl.RawQuery = params.Encode()

    if err != nil {
        return nil, err
    }
    httpReq = httpReq.WithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    return nil, err
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Operation{}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
op := &Operation{proto: rsp}
return op, err

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    baseUrl, _ := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    httpReq = httpReq.WithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return nil, err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return nil, err
    }

    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    rsp := &computepb.Operation{}

    if err := unm.Unmarshal(buf, rsp); err != nil {
        return nil, maybeUnknownEnum(err)
    }
op := &Operation{proto: rsp}
    return op, err
}
func GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, _ := url.Parse(c.endpoint)
    params := url.Values{}
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
    }
    baseUrl.RawQuery = params.Encode()

    if err != nil {
        return nil, err
    }
    httpReq = httpReqWithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    return nil, err
}

defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.License{
    OptionRequestedPolicyVersion: 0,
    Policy: &compute.Policy{
        Version: 0,
        Etag: "",
        VersionCode: 0,
        bindings: []compute.Binding{
            &compute.Binding{
                Role: "",
                Members: []string{
                },
            },
        },
    },
}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.

Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

func GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, _ := url.Parse(c.endpoint)
    params := url.Values{}
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
    }
    baseUrl.RawQuery = params.Encode()

    if err != nil {
        return nil, err
    }
    httpReq = httpReqWithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}
httpRsp, err := c.httpClient.Do(httpReq)  
if err != nil {  
    return nil, err  
}  
defer httpRsp.Body.Close()  
  
if err = googleapi.CheckResponse(httpRsp); err != nil {  
    return nil, err  
}  
buf, err := ioutil.ReadAll(httpRsp.Body)  
if err != nil {  
    return nil, err  
}  
  
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}  
rsp := &computepb.Policy{  
  
if err := unm.Unmarshal(buf, rsp); err != nil {  
    return nil, maybeUnknownEnum(err)  
}  
return rsp, nil  
}  

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.  
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {  
m := protojson.MarshalOptions{AllowPartial: true}  
body := req.GetLicenseResource()  
jsonReq, err := m.Marshal(body)  
if err != nil {  
    return nil, err  
}  
  
baseUrl, _ := url.Parse(c.endpoint)  
  
params := url.Values{}  
if req != nil && req.RequestId != nil {  
    params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))  
}  
  
baseUrl.RawQuery = params.Encode()  
  
if err != nil {  
    return nil, err  
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
def httpRsp.Body.Close()
if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Operation{}
if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}

op := &Operation{proto: rsp}
return op, err

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...
gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{}
    req = proto.Clone(req).(*computepb.ListLicensesRequest)
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
        resp := &computepb.LicensesListResponse{}
        if pageToken != "" {
            req.PageToken = proto.String(pageToken)
        }
        }
if pageSize > math.MaxInt32 {
    req.MaxResults = proto.Uint32(math.MaxInt32)
} else if pageSize != 0 {
    req.MaxResults = proto.Uint32(uint32(pageSize))
}
baseUrl, _ := url.Parse(c.endpoint)

params := url.Values{}
if req != nil && req.Filter != nil {
}
if req != nil && req.MaxResults != nil {
    params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
    params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
}
if req != nil && req.ReturnPartialSuccess != nil {
}

baseUrl.RawQuery = params.Encode()

if err != nil {
    return nil, "", err
}

// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}

httpReq.Header["Content-Type"] = []string{"application/json"}
httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, "", err
}
deferr httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, "", err
}
buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, "", err
}

unm.Unmarshal(buf, resp)
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()
return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctxt context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, _ := url.Parse(c.endpoint)

    if err != nil {
        return nil, err
    }
    httpReq = httpReqWithContext(ctxt)

    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header.Set(k, v)
    }
    return
httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
deferr httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &compute.Policy{
}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req *compute.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*compute.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, _ := url.Parse(c.endpoint)

    if err != nil {
        return nil, err
    }
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.TestPermissionsResponse{ }

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
    items    [][]*computepb.License
    pageInfo *iterator.PageInfo
    nextFunc func() error

    // Response is the raw response for the current page.
    // It must be cast to the RPC response type.
    // Calling Next() or InternalFetch() updates this value.
    Response interface{}
}

    // InternalFetch is for use by the Google Cloud Libraries only.
    // It is not part of the stable interface of this package.
    // It returns results from a single call to the underlying RPC.
    // The number of results is no greater than pageSize.
    // If there are no more results, nextPageToken is empty and err is nil.
func InternalFetch(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error) {

    // PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
    func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
        return it.pageInfo
    }

    // Next returns the next result. Its second return value is iterator.Done if there are no more
    // results. Once Next returns Done, all subsequent calls will return Done.
    func (it *LicenseIterator) Next() (*computepb.License, error) {
        var item *computepb.License
        if err := it.nextFunc(); err != nil {
            return item, err
        }
        item = it.items[0]
        it.items = it.items[1:]
        return item, nil
    }

    func (it *LicenseIterator) bufLen() int {
        return len(it.items)
    }

    func (it *LicenseIterator) takeBuf() interface{} {
        b := it.items
        it.items = nil
        return b
    }

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    // Version 2.0, January 2004
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package compute

import (  
"bytes"  
"context"  
"fmt"  
"io/ioutil"  
"net/http"  
"net/url"
)

gax "github.com/googleapis/gax-go/v2"  
"google.golang.org/api/googleapi"  
"google.golang.org/api/option"  
"google.golang.org/api/option/internaloption"  
httptransport "google.golang.org/transport/http"  
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"  
"google.golang.org/grpc"  
"google.golang.org/grpc/metadata"  
"google.golang.org/protobuf/encoding/protojson"
)

var newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {  
Get       []gax.CallOption  
TestIamPermissions []gax.CallOption
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {  
Close() error  
setGoogleClientInfo(...string)  
Connection() *grpc.ClientConn  
Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)  
TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.  
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.

// The LicenseCodes API.
type LicenseCodesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseCodesClient

    // The call options for this service.
    CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...
    gax.CallOption) (*computepb.LicenseCode, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
    *computepb.TestIamPermissionsLicenseCodeRequest, opts ...
    gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licenseCodesRESTClient struct {
  // The http endpoint to connect to.
  endpoint string

  // The http client.
  httpClient *http.Client

  // The x-goog-* metadata to be sent with each request.
  xGoogMetadata metadata.MD
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
  clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
  httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
  if err != nil {
    return nil, err
  }
  c := &licenseCodesRESTClient{
    endpoint: endpoint,
    httpClient: httpClient,
  }
  c.setGoogleClientInfo()

  return &LicenseCodesClient{internalClient: c, CallOptions: &LicenseCodesCallOptions{}}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
  return []option.ClientOption{
    internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
    internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
    internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
    internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  }
}

// setGoogleClientInfo sets the name and version of the application in
// the 'x-goog-api-client' header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
  kv := append([]string{fmt.Sprintf("gl-go", versionGo())}, keyval...)
  kv = append(kv, "gapic", versionClient, "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
  // Replace httpClient with nil to force cleanup.
  c.httpClient = nil
  return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
  return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...
gax.CallOption) (*computepb.LicenseCode, error) {
  baseUrl, _ := url.Parse(c.endpoint)
  req.GetLicenseCode())

  if err != nil {
    return nil, err
  }
  httpReq = httpReqWithContext(ctx)
  // Set the headers
  for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
  }
  httpReq.Header["Content-Type"] = []string{"application/json"}

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
    return nil, err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
  }
}
buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.LicenseCode{}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution: This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    return nil, err
}

baseUrl, _ := url.Parse(c.endpoint)

if err != nil {
    return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
deffer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.TestPermissionsResponse{

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil
}

1.489 gopkg.in-inf 0.9.1
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1.490 openssl 1.0.2n-1ubuntu5.10

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1.491 python-pip 21.3.1

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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.

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

c-a-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:
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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@(#) SRCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
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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.

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1.493 javax-ws-rs-api 2.0.1

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func initBsdClause2() {
    Licenses["freebsd"] = License{
        Name: "Simplified BSD License",
        PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
        "2 clause bsd", "simplified bsd license"},
        Header: `All rights reserved.
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func initBsdClause3() {
    Licenses["bsd"] = License{
        Name: "NewBSD",
        PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
        Header: `All rights reserved.

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package cmd

func initGpl2() {
    Licenses["gpl2"] = License{
        Name:            "GNU General Public License 2.0",
        PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
        Header: `This program is free software; you can redistribute it and/or
modify it under the terms of the GNU General Public License
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        Name: "GNU General Public License 3.0",
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func initApache2() {
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* org.eclipse.jetty.orbit:javax.mail.glassfish

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* javax.transaction:javax.transaction-api
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Oracle OpenJDK

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* java.sun.security.ssl

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

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Assorted

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*/

Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/**
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
- - Copyright (C) Andrew Tridgell 2005
- + Copyright (C) Andrew Tridgell 1999-2005
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Theodore Ts'o
23-June-2007

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That's all there is to it!
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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1.516 gorilla 0.0.0-20170926233335-4201258b820c

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

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1.524 tiger-types 1.4
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```html
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head profile="http://www.w3.org/1999/xhtml/vocab">
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<meta name="viewport" content="width=device-width, initial-scale=1" />
<link rel="shortcut icon" href="https://opensource.org/files/osi_favicon.png" type="image/png" />
<meta name="HandheldFriendly" content="true" />
<link rel="shortlink" href="/node/47" />
<meta name="Generator" content="Drupal 7 (http://drupal.org)" />
<link rel="canonical" href="/licenses/CDDL-1.0" />
<meta name="MobileOptimized" content="width" />
<title>Common Development and Distribution License (CDDL-1.0) | Open Source Initiative</title>
<link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_xE-rWrJf-fncB6ztZfd2huxgxu4WO-qwma6Xer30m4.css" media="all" />
<link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_4p37TiWeuzRfdymI_lPgCuu6wEwSDhUquxUkHLI7QnU.css" media="all" />
<link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_MnXiytJtb186Ydyncpwpw34cuUsHaKc80ey5LiQXhSY.css" media="all" />
<link type="text/css" rel="stylesheet" href="/maxcdn.bootstrapcdn.com/bootstrap/3.2.0/css/bootstrap.min.css" media="all" />
<link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_KGZcOm3i1wmtbgZsjo-3V9FM4wZ-5UDcpJ7Vfzmt45E.css" media="all" />
<link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_G9cu63kkDQ56GYuF3rqJxma5HT-bUVZckUWKUzFCF4.css" media="all" />

<!--[if (lt IE 9)]>
<link type="text/css" rel="stylesheet" href="https://opensource.org/sites/all/themes/bootstrap-business/css/ie8.css?ol0qr1" media="all" />
<![endif]-->

<!-- HTML5 element support for IE6-8 -->
<!--[if lt IE 9]>
<script src="/html5shiv.googlecode.com/svn/trunk/html5.js"></script>
<![endif]-->
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    var x;
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        x = "<br><p>The following are other community resources that may be helpful:<br><br><a href=https://tldrlegal.com/license/common-development-and-distribution-license-%28cddl-1.0%29-explained style='font-weight: bold;'>Common Development and Distribution License (CDDL-1.0) on TLDRLegal<br><a href=http://www.gnu.org/licenses/license-list.en.html>GNU License List<br><a href=https://en.wikipedia.org/wiki/Comparison_of_free_and_open-source_software_licenses>Wikipedia License List<br><a href=http://oss-watch.ac.uk/apps/licdiff/>OSSWatch License Diff<br><a href=choosealicense.com>Choosealicense";
    } else {
        x = " ";
    }
    document.getElementById("demo").innerHTML = x;
}

//--><!]]>
</script></div>

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1.525 jline-builtins 3.12.1

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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package spec
import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `["name":"the name","url":"the url"]`
    const licenseYAML = "name: the name\nurl: the url"

    assertSerializeJSON(t, license, licenseJSON)
    assertParsesJSON(t, licenseJSON, license)
}

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omiterefempty"`
    URL  string `json:"url,omiterefempty"`
}

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

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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

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

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Oracle OpenJDK

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* java.sun.security.ssl

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OW2
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org.ow2.asm:asm-commons
org.ow2.asm:asm

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

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

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org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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1.542 pep517 0.12.0

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1.543 libxmu 1.1.2-2

1.543.1 Available under license:

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

--- libxmu-1.1.2.orig/autogen.sh
+++ libxmu-1.1.2/autogen.sh
@@ -0,0 +1,14 @@
+#! /bin/sh
+
+srcdir=`dirname $0`
+test -z "$srcdir" && srcdir=. 
+
+ORIGDIR=`pwd`
+cd $srcdir
+
+autoreconf -v --install || exit 1
+cd $ORIGDIR || exit $?
+
+if test -z "$NOCONFIGURE"; then
+  $srcdir/configure "$@"
--- libxmu-1.1.2.orig/debian/changelog
+++ libxmu-1.1.2/debian/changelog
@@ -0,0 +1,219 @@
+libxmu (2:1.1.2-2) unstable; urgency=medium
+
+  [ Andreas Boll ]
+  * Switch to dh with the autoreconf and quilt addons, fixing possible FTBFS
+  when building in parallel (closes: #801059). Thanks, Matthias Klose!
+
+  [ Julien Cristau ]
+  * Remove Cyril from Uploaders.
+  * Bump Standards-Version to 3.9.6, update Vcs-* control fields.
+
+-- Julien Cristau <jcristau@debian.org>  Sat, 14 Nov 2015 10:04:44 +0100
+
+libxmu (2:1.1.2-1) unstable; urgency=low
+
+  * New upstream release.
+  * Add ${misc:Depends} to libxmu-headers.
+  * Use /usr/share/quilt/quilt.make instead of xsfbs for patching.
+  * Add build-[arch.indep] debian/rules targets.
+  * Bump debhelper compat level from 5 to 7.
+
+-- Julien Cristau <jcristau@debian.org>  Mon, 05 May 2014 14:13:01 +0200
+
+libxmu (2:1.1.1-1) unstable; urgency=low
+
+  * New upstream release.
+  * Don't require (fake)root for debian/rules clean.
+  * Bump build-deps on xutils-dev, xmlto and xorg-sgml-doctools per
+    configure.ac.
+  * Xmu.html no longer hardcodes the full path to xlogo.svg, drop sed call
+    from debian/rules.
+  * Remove David Nusinow from Uploaders.
+  * Bump debhelper build-dep for ${misc:Pre-Depends} usage.
+
+-- Julien Cristau <jcristau@debian.org>  Sat, 21 Apr 2012 10:50:11 +0200
+
+libxmu (2:1.1.0-3) unstable; urgency=low
+
+  * Build for multiarch.
+
+-- Steve Langasek <vorlon@debian.org>  Fri, 21 Oct 2011 14:47:59 -0700
+
+libxmu (2:1.1.0-2) unstable; urgency=low
+
+  [ Christopher James Halse Rogers ]
+ * debian/patches/01_dont_export_private_deps.patch:
+    - The Xmu.h header uses libXt symbols in a #define, so libXt is not a
+      private dep. With binutils-gold, the indirect dependency on Xt is not
+      considered when linking with Xmu so this causes build failures.
+    [ Julien Cristau ]
+    + * Drop Pre-Depends on x11-common, only needed for upgrades from the
+      monolith.
+
+    -- Julien Cristau <jcristau@debian.org> Thu, 28 Apr 2011 14:10:11 +0200
+    +libxmu (2:1.1.0-1) unstable; urgency=low
+    +
+    + * New upstream release.
+    + * Bump xutils-dev build-dep for new macros.
+    + * Add xmlto, xorg-sgml-doctools, and w3m build-dep for the doc.
+    + * Pass --with-xmlto and --without-fop (we want html and txt only).
+    + * Pass --docdir=/usr/share/doc/libxmu-headers and add this directory to
+      libxmu-headers.install file.
+    + * Remove the hardcoded path to the X logo in the Xmu.html file.
+    + * Kill *.xml in the doc directory, no point in shipping them.
+    + * Switch from --list-missing to --fail-missing for additional safety.
+    +
+    -- Cyril Brulebois <kibi@debian.org> Fri, 19 Nov 2010 08:42:29 +0100
+    +libxmu (2:1.0.5-2) unstable; urgency=high
+    +
+    + * Rename the build directory to not include DEB_BUILD_GNU_TYPE for no
+      good reason. Thanks, Colin Watson!
+    + * Remove myself from Up uploaders
+    + * Don't pass both -s and -Nfoo/-pfoo to dh_strip. This resulted in an empty
+      libxmuu1-dbg (Closes: #594500). Thanks to Luca Falavigna for the report.
+    +
+    -- Cyril Brulebois <kibi@debian.org> Sat, 04 Sep 2010 14:32:30 +0200
+    +libxmu (2:1.0.5-1) unstable; urgency=low
+    +
+    + [ Timo Aaltonen ]
+    + * New upstream release.
+    + * Fix 64bit support (closes: #521887)
+    +
+    + [ Julien Cristau ]
+ * Bump Standards-Version to 3.8.3.
+ + -- Julien Cristau <jcristau@debian.org>  Wed, 25 Nov 2009 19:20:17 +0100
+ +libxmu (2:1.0.4-2) unstable; urgency=low
+ + [ Julien Cristau ]
+ + * Drop -1 debian revisions from build-deps.
+ + * libxmu6{,-dbg}, libxmu-dev, libxmuu1{,-dbg} and libxmuu-dev don't need a
dependency on x11-common.
+ + * Build libxmu-headers in binary-indep instead of binary-arch
+ + (closes: #486418). Thanks, Martin Koepp!
+ + * Run autoreconf on build; build-depend on automake, libtool, xutils-dev.
+ + * Handle parallel builds.
+ + [ Brice Goglin ]
+ + * Add a link to www.X.org and a reference to the upstream module
+ + in the long description.
+ + * Add upstream URL to debian/copyright.
+ + * Add README.source, bump Standards-Version to 3.8.2.
+ + * Use updated xsfbs, closes: #538587.
+ + * Move -dbg packages to section debug.
+ + [ Timo Aaltonen ]
+ + * Bump the epoch so that this can be synced to Ubuntu in the future.
+ + -- Julien Cristau <jcristau@debian.org>  Thu, 17 Jan 2008 14:57:47 +0100
+ +libxmu (2:1.0.4-1) unstable; urgency=low
+ + [ Julien Cristau ]
+ + * New upstream release.
+ + * Make libxmu*.-dev depend on libxmu-headers (= ${source:Version}). Thanks,
+ Josh Triplett.
+ + * Don't export private dependencies in xmu.pc and xmuu.pc. These
dependencies are handled by Requires:private.
+ + * Due to the above, build-depend on quilt and apply the xsfbs patch rules.
+ + * Update xsfbs to the latest version as of 2008-01-06.
+ + * Add myself to Uploaders, and remove Branden and Fabio with their
+ permission.
+ + * Bump Standards-Version to 3.7.3 (no changes).
+ + * s/^XS-Vcs/Vcs/
+ + [ Timo Aaltonen ]
+ + * Bump the epoch so that this can be synced to Ubuntu in the future.
+ + -- Julien Cristau <jcristau@debian.org>  Thu, 17 Jan 2008 14:57:47 +0100
+ +libxmu (1:1.0.3-1) unstable; urgency=low
+ + * New upstream release.
+ * Install the upstream changelog.
+ * Remove outdated CVS information from the package descriptions, and add
+   XS-Vcs-Git and XS-Vcs-Browser.
+ * Fix package sections (libraries in libs, development stuff in libdevel).
+ * Use $\{binary:Version\}$ instead of $\{Source-Version\}$.

+ -- Julien Cristau <jcristau@debian.org> Thu, 12 Apr 2007 13:40:07 +0200
+ +libxmu (1:1.0.2-2) unstable; urgency=low
+ + -- Andres Salomon
+ + * Test for obj-S$(DEB_BUILD_GNU_TYPE)$ before creating it during build;
+   idempotency fix.
+ + -- Drew Parsons
+ + * dbg package has priority extra.
+ + -- David Nusinow <dnusinow@debian.org> Wed, 30 Aug 2006 16:53:25 -0400
+ +libxmu (1:1.0.2-1) experimental; urgency=low
+ + * New upstream release
+ + * Bump debhelper compat to 5
+ + * Run dh_install with --list-missing
+ + * Version the -headers package's x11-common pre-dep to use version 1:7.0.0
+ + to match the rest of Debian and shut lintian up
+ + * Bump standards version to 3.7.2.0
+ + -- David Nusinow <dnusinow@debian.org> Mon, 3 Jul 2006 18:43:32 -0400
+ +libxmu (1:1.0.1-3) unstable; urgency=low
+ + * Reorder makeshlib command in rules file so that ldconfig is run
+ + properly. Thanks Drew Parsons and Steve Langasek.
+ + -- David Nusinow <dnusinow@debian.org> Tue, 18 Apr 2006 21:49:59 -0400
+ +libxmu (1:1.0.1-2) unstable; urgency=low
+ + * Upload to unstable
+ + -- David Nusinow <dnusinow@debian.org> Thu, 23 Mar 2006 22:44:59 -0500
+ +libxmu (1:1.0.1-1) experimental; urgency=low
+ + * First upload to Debian
+ + -- David Nusinow <dnusinow@debian.org> Thu, 29 Dec 2005 20:53:53 -0500
+ libxmu (1:6.2.3-5) breezy; urgency=low
+ * Also, libxmu-dev needs to depend on libxt-dev too.
+ -- Adam Conrad <adconrad@ubuntu.com> Mon, 25 Jul 2005 09:43:47 +0000
+ libxmu (1:6.2.3-4) breezy; urgency=low
+ * Bump libxt-dev build-dep once more, _XOPEN_SOURCE begone!
+ -- Adam Conrad <adconrad@ubuntu.com> Sun, 24 Jul 2005 10:48:14 +0000
+ libxmu (1:6.2.3-3) breezy; urgency=low
+ * Make libxmu-dev depend on libxext-dev, since libxmu links to it.
+ -- Adam Conrad <adconrad@ubuntu.com> Sun, 24 Jul 2005 07:56:02 +0000
+ libxmu (1:6.2.3-2) breezy; urgency=low
+ * Bump Build-Depends on libx11-dev, libxext-dev and libxt-dev to avoid _XOPEN_SOURCE.
+ -- Daniel Stone <daniel.stone@ubuntu.com> Sat, 23 Jul 2005 00:20:50 +1000
+ libxmu (1:6.2.3-1) breezy; urgency=low
+ * First libxmu release.
+ -- Daniel Stone <daniel.stone@ubuntu.com> Mon, 16 May 2005 22:10:17 +1000
--- libxmu-1.1.2.orig/debian/compat
+++ libxmu-1.1.2/debian/compat
@@ -0,0 +1 @@
+9
--- libxmu-1.1.2.orig/debian/control
+++ libxmu-1.1.2/debian/control
@@ -0,0 +1,155 @@
+Source: libxmu
+Section: x11
+Priority: optional
+Maintainer: Debian X Strike Force <debian-x@lists.debian.org>
+Build-Depends:
+ debhelper (>= 9),
+ dh-autoreconf,
+ libx11-dev (>= 1:0.99.2),
+ libxt-dev (>= 1:0.99.1),
+ libxext-dev (>= 1:0.99.1),
+ **pkg-config**,
+ **quilt**,
+ **automake**,
+ **libtool**,
+ **xutils-dev (>= 1:7.6+2)**,
+ **# devel-docs**:
+ **xmlto (>= 0.0.22)**,
+ **xorg-sgml-doctools (>= 1:1.8)**,
+ **w3m**,
+ **Standards-Version: 3.9.6**
+ **Vcs-Git: git://anonscm.debian.org/git/pkg-xorg/lib/libxmu**
+ **Vcs-Browser: https://anonscm.debian.org/cgit/pkg-xorg/lib/libxmu.git**
+
+ **Package: libxmu6**
+ **Section: libs**
+ **Architecture: any**
+ **Multi-Arch: same**
+ **Pre-Depends: ${misc:Pre-Depends}**
+ **Depends: ${shlibs:Depends}, ${misc:Depends}**
+ **Description: X11 miscellaneous utility library**
+ **libXmu provides a set of miscellaneous utility convenience functions for X**
+ **libraries to use. libXmuu is a lighter-weight version that does not depend**
+ **on libXt or libXext; for more information, see libxmuu1.**
+ .
+ **More information about X.Org can be found at:**
+ **<URL:http://www.X.org>**
+ .
+ **This module can be found at**
+ **git://anongit.freedesktop.org/git/xorg/lib/libXmu**
+
+ **Package: libxmu6-dbg**
+ **Section: debug**
+ **Architecture: any**
+ **Multi-Arch: same**
+ **Priority: extra**
+ **Depends: ${shlibs:Depends}, ${misc:Depends}, libxmu6 (= ${binary:Version})**
+ **Description: X11 miscellaneous utility library (debug package)**
+ **libXmu provides a set of miscellaneous utility convenience functions for X**
+ **libraries to use. libXmuu is a lighter-weight version that does not depend**
+ **on libXt or libXext; for more information, see libxmuu1.**
+ .
+ **This package contains the debug versions of the library found in libxmu6.**
+ **Non-developers likely have little use for this package.**
+ .
+ **More information about X.Org can be found at:**
+ **<URL:http://www.X.org>**
+ .
+ **This module can be found at**
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+Package: libxmu-dev
+Section: libdevel
+Architecture: any
+Multi-Arch: same
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxext-dev, libxt-dev, libxmu6 (= ${binary:Version}), libxmu-
+headers (= ${source:Version})
+Description: X11 miscellaneous utility library (development headers)
+ libXmu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. libXmuu is a lighter-weight version that does not depend
+ on libXt or libXext; for more information, see libxmuu.
  +
  + This package contains the development headers for the library found in
  + libxmu6. Non-developers likely have little use for this package.
  +
  + More information about X.Org can be found at:
  + <URL:http://www.X.org>
  +
  + This module can be found at
  + git://anongit.freedesktop.org/git/xorg/lib/libXmu
  +
+Package: libxmuu1
+Section: libs
+Architecture: any
+Multi-Arch: same
+Pre-Depends: ${misc:Pre-Depends}
+Depends: ${shlibs:Depends}, ${misc:Depends}
+Description: X11 miscellaneous micro-utility library
+ libXmuu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. It is a lighter version of libXmu that does not depend
+ on libXt or libXext; for more information on libXmu, see libxmu6.
  +
  + More information about X.Org can be found at:
  + <URL:http://www.X.org>
  +
  + This module can be found at
  + git://anongit.freedesktop.org/git/xorg/lib/libXmu
  +
+Package: libxmuu1-dbg
+Section: debug
+Architecture: any
+Priority: extra
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxmuu1 (= ${binary:Version})
+Description: X11 miscellaneous micro-utility library (debug package)
+ libXmuu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. It is a lighter version of libXmu that does not depend
+ on libXt or libXext; for more information on libXmu, see libxmu6.
+ .
+ This package contains the debug versions of the library found in libxmuu1.
+ Non-developers likely have little use for this package.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+Package: libxmuu-dev
+Section: libdevel
+Architecture: any
+Multi-Arch: same
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxmuu1 (= ${binary:Version}), libxmu-headers (= ${source:Version})
+Description: X11 miscellaneous micro-utility library (development headers)
+ libXmuu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. It is a lighter version of libXmu that does not depend
+ on libXt or libXext; for more information on libXmu, see libxmu6.
+ .
+ This package contains the development headers for the library found in
+ libxmuu1. Non-developers likely have little use for this package.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+Package: libxmu-headers
+Section: libdevel
+Architecture: all
+Multi-Arch: foreign
+Depends:
+ libx11-dev,
+ x11proto-core-dev,
+ ${misc:Depends},
+ Description: X11 miscellaneous utility library headers
+ libXmu and libXmuu are miscellaneous utility libraries for X library
+ developers to abstract some common functions. This package provides the
+ headers for both libraries (as libXmuu is a subset of libXmu), and
+ is depended upon by both. For more information, please see libxmu-dev or
+ libxmuu-dev.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
--- libxmu-1.1.2.orig/debian/copyright
+++ libxmu-1.1.2/debian/copyright
@@ -0,0 +1,77 @@
+This package was downloaded from
+http://xorg.freedesktop.org/releases/individual/lib/
+
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+
+--------
+
+Xmu/StrToBmap.c and Xmu/GrayPixmap.c also have:
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+
+--------
+
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--- libxmu-1.1.2.orig/debian/libxmu-dev.install
+++ libxmu-1.1.2/debian/libxmu-dev.install
@@ -0,0 +1,3 @@
+usr/lib/*/libXmu.a
+usr/lib/*/libXmu.so
+usr/lib/*/pkgconfig/xmu.pc
--- libxmu-1.1.2.orig/debian/libxmu-headers.install
+++ libxmu-1.1.2/debian/libxmu-headers.install
@@ -0,0 +1,2 @@
+usr/include/X11/*
+usr/share/doc/libxmu-headers
--- libxmu-1.1.2.orig/debian/libxmu6.install
+++ libxmu-1.1.2/debian/libxmu6.install
@ @ -0,0 +1 @@
+usr/lib/*/libXmu.so.6*
--- libxmu-1.1.2.orig/debian/libxmuu-dev.install
+++ libxmu-1.1.2/debian/libxmuu-dev.install
@@ -0,0 +1,3 @@
+usr/lib/*/libXmuu.a
+usr/lib/*/libXmuu.so
+usr/lib/*/pkgconfig/xmuu.pc
--- libxmu-1.1.2.orig/debian/libxmuu1.install
+++ libxmu-1.1.2/debian/libxmuu1.install
@@ -0,0 +1 @@
+usr/lib/*/libXmuu.so.1*
--- libxmu-1.1.2.orig/debian/patches/01_dont_export_private_deps.diff
+++ libxmu-1.1.2/debian/patches/01_dont_export_private_deps.diff
@@ -0,0 +1,26 @@
+diff --git a/xmu.pc.in b/xmu.pc.in
+index a086f83..15dabbf 100644
+++ a/xmu.pc.in
++++ b/xmu.pc.in
++ @@ -6,7 +6,7 @@ includedir=@includedir@
+ Name: Xmu
+ Description: Xmu Library
+ Version: @PACKAGE_VERSION@
+ Requires: xproto x11 xt
++ Requires: xproto xt
+ Requires.private: x11 xt xext
+ Cflags: -I$[includedir]
+ Libs: -L$[libdir] -lXmu
+diff --git a/xmuu.pc.in b/xmuu.pc.in
+index 1e91ac4..72fa5f9 100644
+++ a/xmuu.pc.in
++++ b/xmuu.pc.in
++ @@ -6,7 +6,7 @@ includedir=@includedir@
+ Name: Xmuu
+ Description: Mini Xmu Library
+ Version: @PACKAGE_VERSION@
+ Requires: xproto x11
++ Requires: xproto
+ Requires.private: x11
+ Cflags: -I$[includedir]
+ Libs: -L$[libdir] -lXmuu
--- libxmu-1.1.2.orig/debian/patches/series
+++ libxmu-1.1.2/debian/patches/series
@@ -0,0 +1 @@
+01_dont_export_private_deps.diff
--- libxmu-1.1.2.orig/debian/rules
+++ libxmu-1.1.2/debian/rules
@@ -0,0 +1,34 @@
#!/usr/bin/make -f

+## debian/rules for the Debian libxmu package.
+## Copyright 2004 Scott James Remnant <scott@netsplit.com>
+## Copyright 2005 Daniel Stone <daniel@fooishbar.org>
+## Copyright 2005 David Nusinow <dnusinow@debian.org>
+
+## Uncomment this to turn on verbose mode.
+##export DH_VERBOSE=1
+
+.PHONY: build
+build:
+  dh build --with quilt,autoreconf --builddirectory=build/ --parallel
+
+%.:
+  dh $@ --with quilt,autoreconf --builddirectory=build/ --parallel
+
+override_dh_auto_configure:
+  dh_auto_configure -- \
+  +--disable-silent-rules \
+  +--docdir=$${prefix}/share/doc/libxmu-headers \
+  +--with-xmlto \ 
+  +--without-fop
+
+override_dh_auto_install:
+  dh_auto_install
+  find debian/tmp/usr/share/doc/libxmu-headers -name '*.xml' -delete
+
+override_dh_install-arch:
+  dh_install --fail-missing -Xusr/include -X.la
+
+override_dh_strip:
+  dh_strip -Nlibxmu6 -Nlibxmuu1
+  dh_strip -pplibxmu6 --dbg-package=libxmu6-dbgs
+  dh_strip -pplibxmu1 --dbg-package=libxmuu1-dbgs
+
--- libxmu-1.1.2.orig/debian/watch
+++ libxmu-1.1.2/debian/watch
@@ -0,0 +1,3 @@
+##git=git://anongit.freedesktop.org/xorg/lib/libXmu
+version=3
+http://xorg.freedesktop.org/releases/individual/lib/libXmu-(.*)\tar\gz
+
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1013987576_1591897387.78/0/libxmu-1-1-2-2-diff-gz/libxmu_1.1.2-2.diff

1.544 commons-lang3 3.1
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$Id$

1.551 python-certifi 2018.1.18-2

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c-a-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: http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
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Just configure this file as the SSLCACertificateFile.#

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1.552 go-grpc-prometheus 1.2.0

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1.553 go-autorest-date 0.3.0

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1.560 msgp 1.1.5

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1.561 jackson-dataformat-yaml 2.9.10

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1.562 maorfr-helm-plugin-utils 0.6.0

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Eclipse

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

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message
The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

-----
Oracle

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

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

-----
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

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

-----
OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

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

-----
Apache

The following artifacts are ASL2 licensed.

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

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

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

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Protocol Buffers - Google's data interchange format
===============================================


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This directory contains the JavaScript Protocol Buffers runtime library.

The library is currently compatible with:

1. CommonJS-style imports (eg. `var protos = require('my-protos');`)
2. Closure-style imports (eg. `goog.require('my.package.MyProto');`)

Support for ES6-style imports is not implemented yet. Browsers can be supported by using Browserify, webpack, Closure Compiler, etc. to resolve imports at compile time.

To use Protocol Buffers with JavaScript, you need two main components:

1. The protobuf runtime library. You can install this with `npm install google-protobuf`, or use the files in this directory.
   
   If npm is not being used, as of 3.3.0, the files needed are located in binary subdirectory; arith.js, constants.js, decoder.js, encoder.js, map.js, message.js, reader.js, utils.js, writer.js

2. The Protocol Compiler `protoc`. This translates `.proto` files into `.js` files. The compiler is not currently available via npm, but you can download a pre-built binary [on GitHub](https://github.com/protocolbuffers/protobuf/releases) (look for the `protoc-* .zip` files under **Downloads**).

Setup
=====

First, obtain the Protocol Compiler. The easiest way is to download a pre-built binary from [https://github.com/protocolbuffers/protobuf/releases](https://github.com/protocolbuffers/protobuf/releases).

If you want, you can compile `protoc` from source instead. To do this follow the instructions in [the top-level](https://github.com/protocolbuffers/protobuf/releases).
Once you have `protoc` compiled, you can run the tests by typing:

```
$ cd js
$ npm install
$ npm test
```

If your `protoc` is somewhere else than `./src/protoc`, instead do this:
```
# If your protoc is somewhere else than ./src/protoc, instead do this.
# But make sure your protoc is the same version as this (or compatible)!
$ PROTOC=/usr/local/bin/protoc npm test
```

This will run two separate copies of the tests: one that uses Closure Compiler style imports and one that uses CommonJS imports. You can see all the CommonJS files in `commonjs_out/`. If all of these tests pass, you know you have a working setup.

Using Protocol Buffers in your own project
==========================================

To use Protocol Buffers in your own project, you need to integrate the Protocol Compiler into your build system. The details are a little different depending on whether you are using Closure imports or CommonJS imports:

Closure Imports
---------------

If you want to use Closure imports, your build should run a command like this:

```
$ protoc --js_out=library=myproto_libs,binary:. messages.proto base.proto
```

For Closure imports, `protoc` will generate a single output file (`myproto_libs.js` in this example). The generated file will `goog.provide()` all of the types defined in your .proto files. For example, for the unit tests the generated files contain many `goog.provide` statements like:

```javascript
goog.provide('proto.google.protobuf.DescriptorProto');
goog.provide('proto.google.protobuf.DescriptorProto.ExtensionRange');
goog.provide('proto.google.protobuf.DescriptorProto.ReservedRange');
goog.provide('proto.google.protobuf.EnumDescriptorProto');
goog.provide('proto.google.protobuf.EnumOptions');
```

The generated code will also `goog.require()` many types in the core library, and they will require many types in the Google Closure library. So make sure that your `goog.provide()` / `goog.require()` setup can find all of your
generated code, the core library `.js` files in this directory, and the Google Closure library itself.

Once you've done this, you should be able to import your types with statements like:

```javascript
goog.require('proto.my.package.MyMessage');

var message = proto.my.package.MyMessage();
```

If unfamiliar with Closure or it's compiler, consider reviewing Closure documentation
https://developers.google.com/closure/library/docs/tutorial
https://developers.google.com/closure/library/docs/closurebuilder
https://developers.google.com/closure/library/docs/depswriter
At a high level, closurebuilder.py can walk dependencies, and compile your code, and all dependencies for Protobuf into a single .js file. Using depsbuilder.py to generate a dependency file can also be considered for non-production dev environments.

CommonJS imports
-----------------

If you want to use CommonJS imports, your build should run a command like this:

```
$ protoc --js_out=import_style=commonjs,binary: . messages.proto base.proto
```

For CommonJS imports, `protoc` will spit out one file per input file (so `messages_pb.js` and `base_pb.js` in this example). The generated code will depend on the core runtime, which should be in a file called `google-protobuf.js`. If you are installing from `npm`, this file should already be built and available. If you are running from GitHub, you need to build it first by running:

```
$ gulp dist
```

Once you've done this, you should be able to import your types with statements like:

```javascript
var messages = require('./messages_pb');

var message = new messages.MyMessage();
```

The `--js_out` flag
-------------------

The syntax of the `--js_out` flag is:

```bash
--js_out=[OPTIONS:]output_dir
```
Where `OPTIONS` are separated by commas. Options are either `opt=val` or just `opt` (for options that don’t take a value). The available options are specified and documented in the `GeneratorOptions` struct in [src/google/protobuf/compiler/js/js_generator.h](https://github.com/protocolbuffers/protobuf/blob/master/src/google/protobuf/compiler/js/js_generator.h#L53).

Some examples:

- `--js_out=library=myprotos_lib.js,binary:`: this contains the options `library=myprotos_lib.js` and `binary` and outputs to the current directory. The `import_style` option is left to the default, which is `closure`.
- `--js_out=import_style=commonjs,binary:protos`: this contains the options `import_style=commonjs` and `binary` and outputs to the directory `protos`. `import_style=commonjs_strict` doesn’t expose the output on the global scope.

API
===

The API is not well-documented yet. Here is a quick example to give you an idea of how the library generally works:

```javascript
var message = new MyMessage();

message.setName("John Doe");
message.setAge(25);
message.setPhoneNumbers("
"800-555-1212", "800-555-0000"));

// Serializes to a Uint8Array.
var bytes = message.serializeBinary();

var message2 = MyMessage.deserializeBinary(bytes);
```

For more examples, see the tests. You can also look at the generated code to see what methods are defined for your generated messages.

Found in path(s):
* /opt/cola/permits/1166221982_1621364900.64/0/google-protobuf-3-12-2-tgz/package/README.md

---

### 1.565 masterminds-goutils 1.1.1

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1.583 jackson-module-afterburner 2.9.10

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* /opt/cola/permits/1239268354_1643325174.86/0/netty-tcnative-classes-2-0-46-final-sources-
  jar/io/netty/internal/tcnative/Library.java
* /opt/cola/permits/1239268354_1643325174.86/0/netty-tcnative-classes-2-0-46-final-sources-
  jar/io/netty/internal/tcnative/Buffer.java
* /opt/cola/permits/1239268354_1643325174.86/0/netty-tcnative-classes-2-0-46-final-sources-
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Gocheck - A rich testing framework for Go

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1.595 zlib 1.2.11.dfsg-0ubuntu2.1

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This is the pre-packaged Debian Linux version of the zlib compression library. It was packaged by Michael Alan Dorman <mdorman@debian.org> from sources originally retrieved from ftp.uu.net in the directory /pub/archiving/zip/zlib as the file zlib-1.0.4.tar.gz.

There is a homepage at http://www.gzip.org/zlib/

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by Peter Deutsch. Thanks to all the
people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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* /opt/cola/permits/1258291678_1643053065.62/0/dropwizard-jetty-1-3-29-sources-jar/io/dropwizard/jetty/LocalIpFilter.java

1.597 google-cloud-go 0.99.0

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    package compute_test

    import ( 
"context"

compute "cloud.google.com/go/compute/apiv1"
"google.golang.org/api/iterator"
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicensesRESTClient() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

// TODO: Use client.
_ = c
}

func ExampleLicensesClient_Delete() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.DeleteLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
}
resp, err := c.Delete(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Get() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseRequest{

// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
  // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
  ctx := context.Background()
  c, err := compute.NewLicensesRESTClient(ctx)
  if err != nil {
    // TODO: Handle error.
    }
  defer c.Close()

  req := &computepb.GetIamPolicyLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
    }
  resp, err := c.GetIamPolicy(ctx, req)
  if err != nil {
    // TODO: Handle error.
    }
  // TODO: Use resp.
  _ = resp
}

func ExampleLicensesClient_Insert() {
  ctx := context.Background()
  c, err := compute.NewLicensesRESTClient(ctx)
  if err != nil {
    // TODO: Handle error.
    }
  defer c.Close()

  req := &computepb.InsertLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
    }
  resp, err := c.Insert(ctx, req)
  if err != nil {
    // TODO: Handle error.
    }
  // TODO: Use resp.
func ExampleLicensesClient_List() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
    }
    it := c.List(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break
        }
        if err != nil {
            // TODO: Handle error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

func ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}
func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

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package compute_test

import {
    "context"
}

compute "cloud.google.com/go/compute/apiv1"
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
def err c.Close()

// TODO: Use client.
_ = c
}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
def err c.Close()

    req := &computepb.GetLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
def err c.Close()

    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
// TODO: Use resp.
_ = resp
}

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import (  "bytes"  "context"  "fmt"  "io/ioutil"  "math"  "net/http"  "net/url"

gax "github.com/googleapis/gax-go/v2"  "google.golang.org/api/googleapi"  "google.golang.org/api/iterator"  "google.golang.org/api/option"  "google.golang.org/api/option/internaloption"  httptransport "google.golang.org/api/transport/http"  computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"  "google.golang.org/grpc"  "google.golang.org/grpc/metadata"  "google.golang.org/protobuf/encoding/protojson"  "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
    Delete []gax.CallOption
    Get     []gax.CallOption
    GetIamPolicy []gax.CallOption
    Insert   []gax.CallOption
    List     []gax.CallOption
    SetIamPolicy []gax.CallOption
    TestIamPermissions []gax.CallOption
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsRequest, ...gax.CallOption) (*computepb.TestIamPermissionsResponse, error)
}
TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The Licenses API.
type LicensesClient struct {
// The internal transport-dependent client.
internalClient internalLicensesClient

// The call options for this service.
CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
}
// The http client.
httpClient *http.Client

// The x-goog-* metadata to be sent with each request.
xGoogMetadata metadata.MD
}

// NewLicensesRESTClient creates a new licenses rest client.
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
if err != nil {
    return nil, err
}
c := &licensesRESTClient{
    endpoint:   endpoint,
    httpClient: httpClient,
}
c.setGoogleClientInfo()

return &LicensesClient{internalClient: c, CallOptions: &LicensesCallOptions{}, nil}

func defaultLicensesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
    }
}

c.setGoogleClientInfo sets the name and version of the application in
// the 'x-goog-api-client' header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
kv = append(kv, "gapic", versionClient, "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection returns a connection to the API service.
// Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf(`/compute/v1/projects/%s/global/licenses/%s`, req.GetProject(), req.GetLicense())
    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add(`requestId`, fmt.Sprintf(`%s`, req.GetRequestId()))
    }
    baseUrl.RawQuery = params.Encode()
    if err != nil {
        return nil, err
    }
    httpReq = httpReq.WithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return nil, err
    }
buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Operation{
}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
op := &Operation{proto: rsp}
return op, err

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    baseUrl, _ := url.Parse(c.endpoint)

    if err != nil {
        return nil, err
    }
    httpReq = httpReq.WithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return nil, err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return nil, err
    }
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.License{

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, _ := url.Parse(c.endpoint)

    params := url.Values{}
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
    }
    baseUrl.RawQuery = params.Encode()

    if err != nil {
        return nil, err
    }
    httpReq = httpReqWithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return nil, err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return nil, err
    }
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &compute pb.Policy{}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *compute pb.InsertLicenseRequest, opts ...
gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    baseUrl, _ := url.Parse(c.endpoint)
    params := url.Values{
        if req != nil && req.RequestId != nil {
            params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
        }
    }baseUrl.RawQuery = params.Encode()

    if err != nil {
        return nil, err
    }
    httpReq = httpReq.WithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
der ef httpRsp.Body.Close()
if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Operation{}
if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
op := &Operation{proto: rsp}
return op, err

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...
gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{
        req = proto.Clone(req).(*computepb.ListLicensesRequest)
        unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
        it.InternalFetch = func(pageSize int, pageToken string) ([][*computepb.License, string, error] {
            resp := &computepb.LicensesListResponse{}
            if pageToken != "" {
                req.PageToken = proto.String(pageToken)
            }
            if pageSize > math.MaxInt32 {
                req.MaxResults = proto.Uint32(math.MaxInt32)
            } else if pageSize != 0 {
                req.MaxResults = proto.Uint32(uint32(pageSize))
            }
            baseUrl, _ := url.Parse(c.endpoint)
            params := url.Values{
            }
            if req != nil && req.Filter != nil {
            }
            if req != nil && req.MaxResults != nil {
params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
}
if req != nil && req.ReturnPartialSuccess != nil {
}
baseUrl.RawQuery = params.Encode()

if err != nil {
    return nil, "", err
}

// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}

httpReq.Header["Content-Type"] = []string{"application/json"}
httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, "", err
}
deref httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, "", err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, "", err
}

unm.Unmarshal(buf, resp)
it.Response = resp
return resp.Items(), resp.NextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return"", err
    }
    return}
return "", err
}

it.items = append(it.items, items...)
return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
// resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {

m := protojson.MarshalOptions{AllowPartial: true}
body := req.GetGlobalSetPolicyRequestResource()
jsonReq, err := m.Marshal(body)
if err != nil {
    return nil, err
}

baseUrl, _ := url.Parse(c.endpoint)

if err != nil {
    return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}

httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}
buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
srsp := &computepb.Policy{
}

if err := unm.Unmarshal(buf,rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
m := protojson.MarshalOptions{AllowPartial: true}
body := req.GetTestPermissionsRequestResource()
jsonReq, err := m.Marshal(body)
if err != nil {
    return nil, err
}

baseUrl, _ := url.Parse(c.endpoint)

if err != nil {
    return nil, err
}
httpReq = httpReqWithContext(ctx)

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
defer httpRsp.Body.Close()
if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.TestPermissionsResponse{

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil

// LicenseIterator manages a stream of *computepb.License.
// It must be cast to the RPC response type.
// Calling Next() or InternalFetch() updates this value.
Response interface{}

// InternalFetch is for use by the Google Cloud Libraries only.
// It is not part of the stable interface of this package.
// It returns results from a single call to the underlying RPC.
// The number of results is no greater than pageSize.
// If there are no more results, nextPageToken is empty and err is nil.
InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
    return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
    var item *computepb.License
    if err := it.nextFunc(); err != nil {

func (it *LicenseIterator) bufLen() int {
    return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
    b := it.items
    it.items = nil
    return b
}

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// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "net/http"
    "net/url"

    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport "google.golang.org/api/transport/http"
    computepb "google.golang.org/protobuf/googleapis/cloud/compute/v1"
"google.golang.org/grpc"
"google.golang.org/grpc/metadata"
"google.golang.org/protobuf/encoding/protojson"

var newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get []gax.CallOption
    TestIamPermissions []gax.CallOption
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseCodesClient

    // The call options for this service.
    CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when the client is no longer required.
func (c *LicenseCodesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in the 'x-goog-api-client' header passed on each request. Intended for use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {

c.internalClient.setGoogleClientInfo(keyval...)  

// Connection returns a connection to the API service.  
// Deprecated.  
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {  
  return c.internalClient.Connection()  
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.  
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode, error) {  
  return c.internalClient.Get(ctx, req, opts...)  
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.  
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {  
  return c.internalClient.TestIamPermissions(ctx, req, opts...)  
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.  
type licenseCodesRESTClient struct {  
  // The http endpoint to connect to.  
  endpoint string  
  // The http client.  
  httpClient *http.Client  
  // The x-goog-* metadata to be sent with each request.  
  xGoogMetadata metadata.MD  
}

// NewLicenseCodesRESTClient creates a new license codes rest client.  
// The LicenseCodes API.  
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {  
  httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...))  
  if err != nil {  
    return nil, err  
  }  
}
c := &licenseCodesRESTClient{
    endpoint:   endpoint,
    httpClient: httpClient,
}
c.setGoogleClientInfo()

return &LicenseCodesClient{internalClient: c, CallOptions: &LicenseCodesCallOptions{}}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
    }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "gapic", versionClient, "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection returns a connection to the API service.
// //
// // Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...
gax.CallOption) (*computepb.LicenseCode, error) {
baseUrl, _ := url.Parse(c.endpoint)

if err != nil {
    return nil, err
}
httpReq = httpReqWithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.LicenseCode{}
if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution: This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsRequest, opts ...gax.CallOption) (*computepb.TestIamPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}
    httpReq = httpReqWithContext(ctx)

    // Create the request
    httpReq = httpReq.WithMethod("POST")
    httpReq = httpReqWithURL(body)
    httpReq = httpReqWithPostData(jsonReq)
    httpReq = httpReqWithHeader("Content-Type", "application/json")
    httpReq = httpReqWithContext(ctx)

    // Send the request
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()

    // Check the response
    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return nil, err
    }

    // Unmarshal the response
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    rsp := &computepb.TestIamPermissionsResponse{}
    if err := unm.Unmarshal(buf, rsp); err != nil {
        return nil, maybeUnknownEnum(err)
    }
    return rsp, nil
}
return nil, err
}

baseUrl, _ := url.Parse(c.endpoint)

if err != nil {
    return nil, err
}
httpReq = httpReqWithContext(ctx)

// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
def httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.TestPermissionsResponse{

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil
}

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1.605 commons-collections 3.2.2

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1.606 python-stdlib-extensions 3.6.9-1~18.04

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A grammar to describe tree matching patterns.
# Not shown here:
# - 'TOKEN' stands for any token (leaf node)
# - 'any' stands for any node (leaf or interior)
# With 'any' we can still specify the sub-structure.

# The start symbol is 'Matcher'.

Matcher: Alternatives ENDMARKER

Alternatives: Alternative ( '|' Alternative )*

Alternative: ( Unit | NegatedUnit )+

Unit: [ NAME '=' ] ( STRING [ Repeater ]
  | NAME [ Details ] [ Repeater ]
  | '(' Alternatives ')' [ Repeater ]
  | '[' Alternatives ']' )

NegatedUnit: 'not' ( STRING | NAME [ Details ] | '(' Alternatives ')' )

Repeater: '*' | '+' | '{' NUMBER [ ',' NUMBER ] '}'

Details: '<' Alternatives '>

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/PatternGrammar.txt
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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-org-tar-
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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user's homedir if possible to prevent repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>
Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam.ubuntu/modules/pam_motd/pam_motd.c
===================================================================
--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
     close(fd);
 }

+int display_legal(pam_handle_t *pamh)
+{
+    int retval = PAM_IGNORE, rc;
+    char *user = NULL;
+    char *dir = NULL;
+    char *flag = NULL;
+    struct passwd *pwd = NULL;
+    struct stat s;
+    int f;
+    /* Get the user name to determine if we need to print the disclaimer */
+    rc = pam_get_item(pamh, PAM_USER, &user);
+    if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+    {
+        PAM_MODUTIL_DEF_PRIVS(privs);
+
+        /* Get the password entry */
+        pwd = pam_modutil_getpwnam(pamh, user);
+        if (pwd != NULL)
+        {
+            if (pam_modutil_drop_priv(pamh, &privs, pwd))
+            {
+                pam_syslog(pamh, LOG_ERR,
+                           "Unable to change UID to %d temporarily\n",
+                           pwd->pw_uid);
+                retval = PAM_SESSION_ERR;
+                goto finished;
+            }
+
+            if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+                goto finished;
+            if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+                goto finished;
+            if (stat(flag, &s) != 0)
+            {
+                display_file(pamh, "/etc/legal");
+                mkdir(dir, 0700);
+                f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+                           S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+                }
if (f>=0) close(f);
}

+finished:
+    if (pam_modutil_regain_priv(pamh, &privs)) {
+        pam_syslog(pamh, LOG_ERR,
+                   "Unable to change UID back to %d\n", privs.old_uid);
+        retval = PAM_SESSION_ERR;
+    }
+
+    _pam_drop(flag);
+    _pam_drop(dir);
+}
+
+    return retval;
+
PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
                      int argc, const char **argv)
@@ -116,6 +171,9 @@
        /* Display the updated motd */
        display_file(pamh, motd_path);
+
        /* Display the legal disclaimer only if necessary */
        retval = display_legal(pamh);
        return retval;
    }

This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on

It was downloaded from ftp://ftp.kernel.org/pub/linux/libs/pam/pre/

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1.610 fiorix-go-diameter 3.0.2+incompatible

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# The email address is not required for organizations.
#
# Please keep the list sorted.
#
# Use the following command to generate the list
#
git shortlog -se | awk '{print $2 " " $3 " " $4}'
#
# and do appropriate cleanups.

DanB <danb@cgrates.org>
1.611 amqp-client 5.10.0
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package pq

import (
    "context"
    "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
    return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
    c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
// on it.
type NoticeHandlerConnector struct {
    driver.Connector
    noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
    c, err := n.Connector.Connect(ctx)
    if err == nil {
        SetNoticeHandler(c, n.noticeHandler)
    }
    return c, err
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        c.noticeHandler = handler
    return c
    }
    return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}

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 */

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import java.io.Serializable;

/**
 * Legacy security code; do not use.
 */
public abstract class Permission implements Guard, Serializable {
    public Permission(String name) {
    }

    public final String getName() { return null; }

    public void checkGuard(Object obj) throws SecurityException {
    }

    public PermissionCollection newPermissionCollection() {
        return new AllPermissionCollection();
    }

    public abstract String getActions();

    public abstract boolean implies(Permission permission);
}

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file name: UBiDiProps.java
encoding: US-ASCII
tab size: 8 (not used)
indentation:4

created on: 2005jan16
created by: Markus W. Scherer

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Java port of ubidi_props.h/c.
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 Replaceable is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by char32At(). One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

An implicit aspect of the Replaceable API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the <b>bold</b> font" has range (4, 8) replaced with "strong", then it becomes "the <b>strong</b> font".

Replaceable specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset start..limit-1. That is, the start offset is inclusive, and the limit offset is exclusive.

Replaceable also includes API to access characters in the string: length(), charAt(), char32At(), and extractBetween().

For a subclass to support metadata, typical behavior of replace() is the following:
<ul>
<li>Set the metadata of the new text to the metadata of the first character replaced</li>
<li>If no characters are replaced, use the metadata of the previous character</li>
<li>If there is no previous character (i.e. start == 0), use the following character</li>
<li>If there is no following character (i.e. the replaceable was empty), use default metadata<br>
<li>If the code point U+FFFF is seen, it should be interpreted as
If this is not the behavior, the subclass should document any differences.

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@author Alan Liu
@stable ICU 2.0

<pre>
ReplaceableString is an adapter class that implements the Replaceable API around an ordinary StringBuffer.

Note: This class does not support attributes and is not intended for general use. Most clients will need to implement [ @link Replaceable ] in their text representation class.
</pre>

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@see Replaceable
@author Alan Liu
@stable ICU 2.0

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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix `.'s to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
# Define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS */
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
that says to advance the location counter by SIZE bytes. */
#define ASM_OUTPUT_SKIP(FILE,SIZE) 
fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED\"un\", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */
#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) 
( fputs (".comm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u\n", (int)(ROUNDED))

/* This says how to output an assembler line
to define a local common symbol. */
#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) 
( fputs (".lcomm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u\n", (int)(ROUNDED))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) 
( fputs (".lcomm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
that says to advance the location counter
to a multiple of 2**LOG bytes. */
#define ASM_OUTPUT_ALIGN(FILE,LOG) 
if ((LOG)!=0) fprintf ((FILE), \t.align %d\n", (LOG))

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class. This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)\  
sprintf ((BUF), "%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */
#define USER_LABEL_PREFIX "_

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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@end smallexample
```

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```example
@smallexample
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}. This is free software, and you are welcome to redistribute it under certain conditions; type @samp{show c} for details.
@end smallexample
```

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

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if F==2 {
    nr % 0
    nr F 2
}
" Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).
" Fear. Run. Save yourself. No user-serviceable parts.
" fudge factors for nroff and troff
.if n \{
    ds #H 0
    ds #V .8m
    ds #F .3m
    ds # [ f1
    ds # ] fP
.if t \{
    ds #H ((1u-(\\n(.fu%2u))*.13m)
    ds #V .6m
    ds #F 0
    ds # \&
    ds # ] \&
" simple accents for nroff and troff
.if n \{
    ds ` \&
    ds ` \&
    ds ^ \&
    ds , \&
    ds ~ ~
    ds / \&
.if t \{
    ds ` \&\&
    ds ` \&
    ds ^ \&
    ds , \&
    ds ~ ~
    ds / \&
" troff and (daisy-wheel) nroff accents
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Written By David Vinayak Henkel-Wallace, June 1992

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile 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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b. 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.

c. 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.

d. 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 source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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SIGNATURE OF TY COON, 1 April 1990
Ty Coon, President of Vice

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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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.)

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

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

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may
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#!/usr/bin/python
#
# Copyright (C) 2013-2017 Free Software Foundation, Inc.
#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.

# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
# Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn’t change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven’t been approved. So:
#
#    update-copyright.py --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
#    update-copyright.py --this-year libitm
#
# would run the script on just libitm/.
#
# Note that things like --version output strings must be updated before
# this script is run. There’s already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__ (self):
        self.num_errors = 0

    def report (self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write (string + '
')
        self.num_errors += 1

    def ok (self):
        return self.num_errors == 0

class GenericFilter:
def __init__(self):
    self.skip_files = set()
    self.skip_dirs = set()
    self.skip_extensions = set()
    self.fossilised_files = set()
    self.own_files = set()

    self.skip_files |= set([
        # Skip licence files.
        'COPYING',
        'COPYING.LIB',
        'COPYING3',
        'COPYING3.LIB',
        'LICENSE',
        'rsl.txt',
        'gpl_v3.txt',
        'rsl-1.3.xml',
        'gpl-3.0.xml',

        # Skip auto- and libtool-related files
        'aclocal.m4',
        'compile',
        'config.guess',
        'config.sub',
        'depcomp',
        'install-sh',
        'libtool.m4',
        'ltmain.sh',
        'ltfeatures.m4',
        'ltinstall.m4',
        'ltversion.m4',
        'lt~obsolete.m4',
        'missing',
        'mkdep',
        'mkinstalldirs',
        'move-if-change',
        'shlibpath.m4',
        'symlink-tree',
        'ylwrap',

        # Skip FSF mission statement, etc.
        'gnu.txt',
        'funding.txt',
        'appendix_free.xml',

        # Skip imported texinfo files.
        'texinfo.txt',
    ])}
def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True
    # Skip files produced by autogen
    if (os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True
    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists (base + '.ac'):
            return True
    return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
return filename in self.own_files

class Copyright:
    def __init__(self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9](?:[-0-9.,\s]+and\s+)*[0-9-]'

        # Non-whitespace characters in a copyright holder's name.
        name = '[\w-]+'

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile (r'
            # 1: 'Copyright (C)', etc.
            ([Cc]opyright'
            [[Cc]opyright\s+(\[Cc\])]
            [[Cc]opyrights+]'|
            [[Cc]opyrights+F'|
            [[Cc]opyrights+&copy;|
            [[Cc]opyrights+@copyright\s*]
            [copyright = u"|
            [@set\s+copyright\[w-]+])

            # 2: the years. Include the whitespace in the year, so that
            # we can remove any excess.
            '\s*\(\?\+ ranges + \?\)'
            '@value\{[\^\[\]]+\}s*'

            # 3: 'by ', if used
            'by\s*\)?'

            # 4: the copyright holder. Don't allow multiple consecutive
            # spaces, so that right-margin gloss doesn't get caught
            # (e.g. gnat_ugn.texi).
            '\+ name + '(?:\s*? name + ')?\)"

            # A regexp for notices that might have slipped by. Just matching
            # 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
            # HTML header markers, so check for 'copyright' and two digits.
            self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',
            re.IGNORECASE)

        self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')
self.holders = { '@copying': '@copying' }

self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ', '
self.separator = '

def add_package_author(self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author(self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__(self, year):
        self.year = year

    def __str__(self):
        return 'unrecognised year: ' + self.year

    def parse_year(self, string):
        year = int(string)
        if len(string) == 2:
            if year > 70:
                return year + 1900
            elif len(string) == 4:
                return year
            else:
                raise self.BadYear(string)
        else:
            raise self.BadYear(string)

    def year_range(self, years):
        year_list = [self.parse_year(year)
            for year in self.year_re.findall(years)]
        assert len(year_list) > 0
        return (min(year_list), max(year_list))

    def set_use_quilt(self, use_quilt):
        self.use_quilt = use_quilt
def include_year(self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value'):
        return years

    (min_year, max_year) = self.year_range(years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file(dir, filename):
        max_year = max(max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
        and (holder not in self.holder_prefixes
            or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != '':
            self.errors.report(pathname, 'trailing characters in @set: ' + after_years)
return (False, orig_line, next_line)
else:
    # If it looks like the copyright is incomplete, add the next line.
    while not self.is_complete (match):
        try:
            next_line = file.next()
        except StopIteration:
            break

    # If the next line doesn’t look like a proper continuation,
    # assume that what we’ve got is complete.
    continuation = self.strip_continuation (next_line)
    if not self.continuation_re.match (continuation):
        break

    # Merge the lines for matching purposes.
    orig_line += next_line
    line = line.rstrip() + ' ' + continuation
    next_line = None

    # Rematch with the longer line, at the original position.
    match = self.copyright_re.match (line, match.start())
    assert match

    holder = match.group (4)

    # Use the filter to test cases where markup is getting in the way.
    if filter.by_package_author (dir, filename):
        assert holder not in self.holders

    elif not holder:
        self.errors.report (pathname, 'missing copyright holder')
        return (False, orig_line, next_line)

    elif holder not in self.holders:
        self.errors.report (pathname, 'unrecognised copyright holder: ' + holder)
        return (False, orig_line, next_line)

    else:
        # See whether the copyright is associated with the package
        # author.
        canon_form = self.holders[holder]
        if not canon_form:
            return (False, orig_line, next_line)

        # Make sure the author is given in a consistent way.
        line = line[:match.start (4)]
+ canon_form
+ line[match.end (4):]

# Remove any 'by'
line = line[:match.start (3)] + line[match.end (3):]

# Update the copyright years.
years = match.group (2).strip()
try:
    canon_form = self.canonicalise_years (dir, filename, filter, years)
except self.BadYear as e:
    self.errors.report (pathname, str (e))
return (False, orig_line, next_line)

line = (line[:match.start (2)]
    + ('' if intro.startswith ('copyright = ') else ' ')
    + canon_form + self.separator
    + line[match.end (2):])

# Use the standard (C) form.
if intro.endswith ('right'):
    intro += ' (C)'
elif intro.endswith ('(c)'):
    intro = intro[:-3] + '(C)'
line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + '
'
return (line != orig_line, line, next_line)
def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
    return

lines = []
changed = False
line_filter = filter.get_line_filter (dir, filename)
mode = None
with open (pathname, 'r') as file:
    prev = None
    mode = os.fstat (file.fileno()).st_mode
    #
for line in file:
    while line:
        next_line = None
        # Leave filtered-out lines alone.
        if not (line_filter and line_filter.match(line)):
            match = self.copyright_re.search(line)
            if match:
                res = self.update_copyright(dir, filename, filter,
                                             file, line, match)
                (this_changed, line, next_line) = res
                changed = changed or this_changed

        # Check for copyright lines that might have slipped by.
        elif self.other_copyright_re.search(line):
            self.errors.report(pathname,
                               'unrecognised copyright: %s'
                               % line.strip())
            lines.append(line)
            line = next_line

        # If something changed, write the new file out.
        if changed and self.errors.ok():
            tmp_pathname = pathname + '.tmp'
            with open(tmp_pathname, 'w') as file:
                for line in lines:
                    file.write(line)
                    os.fchmod(file.fileno(), mode)
            if self.use_quilt:
                subprocess.call(['quilt', 'add', pathname])
            os.rename(tmp_pathname, pathname)

def process_tree(self, tree, filter):
    for (dir, subdirs, filenames) in os.walk(tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange(len(subdirs) - 1, -1, -1):
            if filter.skip_dir(dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file(dir, filename):
                sys.stdout.write('Skipping %s
' % os.path.join(dir, filename))
            else:
                self.process_file(dir, filename, filter)

class CmdLine:
    def __init__(self, copyright = Copyright):
def add_option(self, name, help, handler):
    self.option_help.append((name, help))
    self.option_handlers[name] = handler

def add_dir(self, dir, filter=GenericFilter()):
    self.dirs.append((dir, filter))

def o_help(self, option=None):
    sys.stdout.write('Usage: %s [options] dir1 dir2...

' % sys.argv[0])
    format = '%-15s %s
'
    for (what, help) in self.option_help:
        sys.stdout.write(format % (what, help))
    sys.stdout.write('
Directories:
')
    format = '%-25s
'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len(self.dirs):
            sys.stdout.write(dir + '\n')
        else:
            sys.stdout.write(format % dir)
    sys.exit(0)

def o_quilt(self, option):
    self.copyright.set_use_quilt(True)

def o_this_year(self, option):
    self.copyright.include_year(time.localtime().tm_year)

def main(self):
    for arg in sys.argv[1:]:
        if arg[0] != '-':
self.chosen_dirs.append (arg)
elif arg in self.option_handlers:
    self.option_handlers[arg] (arg)
else:
    self.errors.report (None, 'unrecognised option: ' + arg)

if self.errors.ok():
    if len (self.chosen_dirs) == 0:
        self.chosen_dirs = self.default_dirs
    if len (self.chosen_dirs) == 0:
        self.o_help()
    else:
        for chosen_dir in self.chosen_dirs:
            canon_dir = os.path.join (chosen_dir, '')
            count = 0
            for (dir, filter) in self.dirs:
                if (dir + os.sep).startswith (canon_dir):
                    count += 1
                    self.copyright.process_tree (dir, filter)
            if count == 0:
                self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
        sys.exit (0 if self.errors.ok() else 1)

#-------------------------------------------------------------------------------------------

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
        self.skip_files |= set (
        # Not part of GCC
self.skip_dirs |= set([
    # Better not create a merge nightmare for the GNAT folks.
    'ada',
    # Handled separately.
    'testsuite',
])

self.skip_extensions |= set([
    # Maintained by the translation project.
    '.po',
    # Automatically-generated.
    '.pot',
])

self.fossilised_files |= set([
    # Old news won't be updated.
    'ONEWS',
])

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
        ])

    def skip_file (self, dir, filename):
        # g++.niklas/README contains historical copyright information
        # and isn't updated.
        if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
            return True
        # Similarly params/README.
if filename == 'README' and os.path.basename(dir) == 'params':
    return True
return GenericFilter.skip_file(self, dir, filename)

class LibCppFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set([
            # Maintained by the translation project.
            '.po',
            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibStdCxxFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set([
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])

        self.skip_dirs |= set([
            # Contains automatically-generated sources.
            'html',
            # The testsuite data files shouldn't be changed.
            'data',
            # Contains imported images
            'images',
        ])

        self.own_files |= set([
            # Contains markup around the copyright owner.
            'spine.xml',
        ])

        self.skip_dirs |= set([
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])
def get_line_filter(self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile('// (C) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter(self, dir, filename)

class GCCCopyright(Copyright):
    def __init__(self, errors):
        Copyright.__init__(self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author('Free Software Foundation', canon_fsf)
        self.add_package_author('Free Software Foundation.', canon_fsf)
        self.add_package_author('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author('The Free Software Foundation', canon_fsf)
        self.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('Software Foundation, Inc.', canon_fsf)

        self.add_external_author('ARM')
        self.add_external_author('AdaCore')
        self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author('Cavium Networks.')
        self.add_external_author('Faraday Technology Corp.')
        self.add_external_author('Florida State University')
        self.add_external_author('Greg Colvin and Beman Dawes.')
        self.add_external_author('Hewlett-Packard Company')
        self.add_external_author('Intel Corporation')
        self.add_external_author('Information Technology Industry Council')
        self.add_external_author('James Theiler, Brian Gough')
        self.add_external_author('Makoto Matsumoto and Takuji Nishimura')
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        self.add_external_author('Peter Dimov and Multi Media Ltd')
        self.add_external_author('Peter Dimov')
        self.add_external_author('Pipeline Associates, Inc.')
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        self.add_external_author('Silicon Graphics Computer Systems, Inc.')
        self.add_external_author('Silicon Graphics')
        self.add_external_author('Stephen L. Moshier')
        self.add_external_author('Sun Microsystems, Inc. All rights reserved')
        self.add_external_author('The Go Authors. All rights reserved')
        self.add_external_author('The Go Authors')
        self.add_external_author('The Regents of the University of California')
        self.add_external_author('Unicode, Inc')
self.add_external_author('University of Toronto.')

class GCCCmdLine (CmdLine):
    def __init__(self):
        CmdLine.__init__(self, GCCCopyright)

        self.add_dir('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir('fixincludes')
        self.add_dir('gcc', GCCFilter())
        self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir('gnatools')
        self.add_dir('gotools')
        self.add_dir('include')
        # intl is imported from upstream.
        self.add_dir('libada')
        self.add_dir('libatomic')
        self.add_dir('libbacktrace')
        self.add_dir('libcc1')
        # libcilkrts is imported from upstream.
        self.add_dir('libcpp', LibCppFilter())
        self.add_dir('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir('libgcc', LibGCCFilter())
        self.add_dir('libgfortran')
        # libgo is imported from upstream.
        self.add_dir('libgomp')
        self.add_dir('libhsail-rt')
        self.add_dir('libiberty')
        self.add_dir('libitm')
        self.add_dir('libobjc')
        # liboffloadmic is imported from upstream.
        self.add_dir('libquadmath')
        # libsanitizer is imported from upstream.
        self.add_dir('libssp')
        self.add_dir('libstdc++-v3', LibStdCxxFilter())
        self.add_dir('libvtv')
        self.add_dir('lto-plugin')
        # maintainer-scripts maintainer-scripts
        # zlib is imported from upstream.

        self.default_dirs = [
            'gcc',
            'include',
            'libada',
            'libatomic',
GCCCmdLine().main()

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End

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Version 2.1, February 1999

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 */

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* /opt/cola/permits/1212202902_1633724936.34/0/helidon-config-yaml-1-1-0-sources-jar/io/helidon/config/yaml/internal/YamlConfigParser.java
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Found in path(s):
* /opt/cola/permits/1212202902_1633724936.34/0/helidon-config-yaml-1-1-0-sources-jar/META-INF/native-image/native-image.properties
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* /opt/cola/permits/1212202902_1633724936.34/0/helidon-config-yaml-1.1.0-sources-jar/io/helidon/config/yaml/YamlConfigParserBuilder.java
* /opt/cola/permits/1212202902_1633724936.34/0/helidon-config-yaml-1.1.0-sources-jar/io/helidon/config/yaml/package-info.java
* /opt/cola/permits/1212202902_1633724936.34/0/helidon-config-yaml-1.1.0-sources-jar/io/helidon/config/yaml/internal/YamlFileTypeDetector.java
* /opt/cola/permits/1212202902_1633724936.34/0/helidon-config-yaml-1.1.0-sources-jar/io/helidon/config/yaml/internal/package-info.java

1.634 netty 4.1.73.Final
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  jar/io/netty/channel/unix/DomainDatagramSocketAddress.java
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  jar/io/netty/channel/unix/DomainDatagramChannelConfig.java
* /opt/cola/permits/1267543418_1644318266.03/0/netty-transport-native- unix-common-4-1-73-final-sources-
  jar/io/netty/channel/unix/DomainDatagramPacket.java
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  jar/netty/channel/unix/Buffer.java
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  jar/netty/channel/unix/PreferredDirectByteBufAllocator.java
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* /opt/cola/permits/1267543418_1644318266.03/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java
* /opt/cola/permits/1267543418_1644318266.03/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/netty_unix_util.h
* /opt/cola/permits/1267543418_1644318266.03/0/netty-transport-native-unix-common-4-1-73-final-sources-
jar/io/netty/channel/unix/Limits.java
* /opt/cola/permits/1267543418_1644318266.03/0/netty-transport-native-unix-common-4-1-73-final-sources-
ar/jar/io/netty/channel/unix/SocketWritableByteChannel.java
* /opt/cola/permits/1267543418_1644318266.03/0/netty-transport-native-unix-common-4-1-73-final-sources-
ar/jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java
* /opt/cola/permits/1267543418_1644318266.03/0/netty-transport-native-unix-common-4-1-73-final-sources-
ar/netty_unix_util.c
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ar/netty_unix_limits.c
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* java.sun.security.ssl

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

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org.ow2.asm:asm-commons
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org.eclipse.jetty.toolchain:jetty-schemas

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1.655 zap 1.15.0

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1.658 kubernetes-api 0.22.4
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1.659 utils 0.0.0-20211116205334-6203023598ed

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1.660 jetty-http 9.4.16.v20190411

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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

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

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Oracle OpenJDK

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* java.sun.security.ssl

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

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OW2

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

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

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

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.661 golang-genproto 0.0.0-20200526211855-cb27e3aa2013

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1.662 okio 1.15.0

1.663 go-wordwrap 1.0.0

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1.664 slf4j 1.7.25

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1.665 e2fsprogs 1.44.1-1ubuntu1.4

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 /*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell              2005
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It is part of the main e2fsprogs distribution, which can be found at:

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image::$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -shared -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) 

$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$ (RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$ (RM) -rf pic
$ (RM) -f $(BSD_LIB)
$ (RM) -f ../$(BSD_LIB)

This is the Debian GNU/Linux prepackaged version of the Common Error
Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

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libet and libss libraries for more information.
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Theodore Ts'o
23-June-2007

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* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profiler-1-1-1-sources.jar/ca/jimr/gae/profiler/MiniProfiler.java
* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profiler-1-1-1-sources.jar/ca/jimr/gae/profiler/MiniProfilerFilter.java
* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profiler-1-1-1-sources.jar/ca/profiler/resources/MiniProfilerResourceLoader.java
* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profiler-1-1-1-sources.jar/ca/jimr/gae/profiler/MiniProfilerServlet.java

1.670 gotenv 1.2.0
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1.671 istack-commons 3.0.5
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Manifest-Version: 1.0
Bundle-Description: istack common utility code
Implementation-Title: istack common utility code runtime
Bundle-License: https://glassfish.java.net/public/CDDL+GPL_1_1.html, https://glassfish.java.net/public/CDDL+GPL_1_1.html
Bundle-SymbolicName: com.sun.istack.commons-runtime
Implementation-Version: 3.0.5
Built-By: build
Bnd-LastModified: 148672850426
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: com.sun.istack
Bundle-DocURL: http://www.oracle.com/
Bundle-Vendor: Oracle Corporation
Import-Package: javax.activation,javax.xml.namespace,javax.xml.stream, org.xml.sax.org.xml.sax.helpers
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.2.0.201605172007
Implementation-Vendor: Oracle Corporation
Export-Package: com.sun.istack;uses:="javax.activation,javax.xml.stream, org.xml.sax.org.xml.sax.helpers";version="3.0.5",com.sun.istack.logging;version="3.0.5",com.sun.istack.localization;version="3.0.5"
Bundle-Name: istack common utility code runtime
Bundle-Version: 3.0.5
Implementation-Build-Id: tags/istack-commons-3.0.5-321, 2017-02-11T01:27:24+0100
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_112
Found in path(s):
* /opt/cola/permits/1334904685_1653676440.7415743/0/istack-commons-runtime-3-0-5-jar/META-INF/MANIFEST.MF

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1.674 adduser 3.116ubuntu1

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Streams.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AsyncCallable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/FarmHashFingerprint64.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/ReaderInputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/MacHashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ConsumingQueueIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/CombinedFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Platform.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/InterruptibleTask.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AggregateFutureState.java

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 *
 * As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
 * java.util.HashMap class.
 */

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/WrappingExecutorService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractScheduledService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/UncheckedExecutionException.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/Weigher.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/CacheStats.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/AbstractCompositeHashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/Hashing.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/BigIntegerMath.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/AbstractCache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ExecutionError.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/IntMath.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/AbstractCache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/AbstractCache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/AbstractCache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/AbstractCache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/AbstractCache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/AbstractCache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/HashingOutputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/AbstractNonStreamingHashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/HashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/HashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/HashFunction.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/BloomFilter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/BloomFilter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/BloomFilter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/BloomFilter.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/GeneralRange.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ForwardingSortedMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/SortedIterable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/RangeSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/AbstractRangeSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/Count.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/SortedIterables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ImmutableSortedMultiset.java

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/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned array.
 *
 * <p>This method assumes that the collection size doesn't change while the method is running.
 *
 * <p>TODOR(kevinb): support concurrently modified collections?
 *
 * @param c the collection for which to return an array of elements
 */

Found in path(s):
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
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/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
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jar/com/google/common/base/SmallCharMatcher.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/eventbus/Dispatcher.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/base/MoreObjects.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/util/concurrent/ListenerCallQueue.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/math/Quantiles.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/VerifyException.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractTable.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Verify.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/FilteredMultimapValues.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/CharSequenceReader.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Utf8.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/WrappingScheduledExecutorService.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/BaseImmutableMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/JdkBackedImmutableBiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/IndexedImmutableSet.java

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  */opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/FilteredKeyListMultimap.java
  */opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/AllEqualOrdering.java
  */opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/TransformedListIterator.java
  */opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/FilteredMultimap.java
  */opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/FilteredEntrySetMultimap.java
  */opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/SortedMultisetBridge.java
  */opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/CompactLinkedHashSet.java
  */opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/CompactLinkedHashMap.java
  */opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/AbstractSortedKeySortedSetMultimap.java
  */opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ImmutableEnumMap.java
  */opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/UnmodifiableSortedMultiset.java
  */opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/util/concurrent/ForwardingBlockingDeque.java
  */opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ForwardingImmutableList.java
  */opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ForwardingBlockingDeque.java
  */opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ForwardingDeque.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/MultimapBuilder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/MoreFiles.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/Serialization.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/StandardTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ImmutableListMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/PeekingIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/RegularImmutableMap.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/CollectionPreconditions.java
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jar/com/google/common/xml/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
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jar/com/google/common/cache/LongAdder.java
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* /opt cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Doubles.java
* /opt cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Booleans.java
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* /opt cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Flows.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/MinMaxPriorityQueue.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractSequentialIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingListMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RowSortedTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingImmutableCollection.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/UnmodifiableListIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SortedMapDifference.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collection/SortedMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collection/SortedMultisets.java
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  jar/com/google/common/collection/DenseImmutableTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/util/concurrent/ForwardingFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/primitives/UnsignedBytes.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
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 */

/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable} key.</b>
 * Proper calls will resolve to the version in { @code ImmutableSortedMap}, not this dummy version.
 */
@throws UnsupportedOperationException always
* @deprecated <b>Pass a key of type { @code Comparable} to use { @link ImmutableSortedMap#of(Comparable, Object}).</b> */

Found in path(s):
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
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* the License.
* */

/**
* Holder for web specializations of methods of { @code Floats}. Intended to be empty for regular
* version.
* */

Found in path(s):
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/FloatsMethodsForWeb.java
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* */
1.678 go-runewidth 0.0.9

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1.679 jetty-servlets 9.4.44.v20210927

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The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

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

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Oracle

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

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

-----

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

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

-----

OW2

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

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Apache

The following artifacts are ASL2 licensed.

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

-----

MortBay

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

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

------
Mortbay

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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package org.apache.xalan;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information. This class will replace the older
 * org.apache.xalan.processor.Version class.</P>
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties for
 * information about the version of the XSLT spec we support.</P>
 * @xsl.usage general
 */

public class Version
{

/**
 * Get the basic version string for the current Xalan release.
 * Version String formatted like
 * <CODE>"<B>Xalan</B> <B>Java</B> v.r[.dd| <B>D</B>nn"]</CODE>.
 * Futurework: have this read version info from jar manifest.
 *
 * @return String denoting our current version
 */

public static String getVersion()
{
    return getProduct() + " " + getImplementationLanguage() + " " +
        getMajorVersionNum() + "." + getReleaseVersionNum() + "." +
        ((getDevelopmentVersionNum() > 0) ?
            ("D" + getDevelopmentVersionNum()) : ("" + getMaintenanceVersionNum()));
}

/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */

public static void main(String argv[])
{
    System.out.println(getVersion());
}
/**
 * Name of product: Xalan.
 */
public static String getProduct()
{
    return "Xalan";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}
/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */
public static int getDevelopmentVersionNum()
{
    try {
        if (((new String("@version.DEVELOPER@")).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}

Found in path(s):
*/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.src
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 */

/**
 * This is a special exception that is used to stop parsing when
 * search for an element. For instance, when searching for xml:stylesheet
 * PIs, it is used to stop the parse once the document element is found.
 * @see StylesheetPIHandler
 * @xsl.usage internal
 */

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/utils/StopParseException.java
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 * limitations under the License.
 */

/*
*$Id: Version.src 468654 2006-10-28 07:09:23Z minchau $
*/

package org.apache.xml.serializer;

/**
 * Administrative class to keep track of the version number of
 * the Serializer release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information.</P>
 * @xsl.usage general
 */

public final class Version {

/**
 * Get the basic version string for the current Serializer.
 * Version String formatted like
 * 
 * Futurework: have this read version info from jar manifest.
 * 
 * @return String denoting our current version
 */

class get onError() {}
return getProduct() + " " + getImplementationLanguage() + " "
+ getMajorVersionNum() + "." + getReleaseVersionNum() + "."
+( (getDevelopmentVersionNum() > 0) ? ('D"'+getDevelopmentVersionNum(): (""+getMaintenanceVersionNum()));

/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Serializer.
 */
public static String getProduct()
{
    return "Serializer";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static int getMajorVersionNum()
{
    return @version.VERSION@;
/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */
public static int getDevelopmentVersionNum()
{
try {
    if (((new String("@version.DEVELOPER@"))).length() == 0)
        return 0;
    else
        return Integer.parseInt("@version.DEVELOPER@");
} catch (NumberFormatException nfe) {
    return 0;
}

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.src
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 */

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/processor/XSLProcessorVersion.java
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 */

// Attribution to: "Voytenko, Dimitry" <DVoytenko@SECTORBASE.COM>

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToHTMLStream.java

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 */

// Proprietary
/** The 'document-location()' id (Proprietary). */

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Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Encodings.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/XMLEntities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_text.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_xml.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan/xalan/xslt/compiler/Makefile.inc
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_unknown.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/HTMLEntities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_html.properties

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*/
package org.apache.xalan.xslt.compiler;

import java.util.Stack;
import java.util.Vector;
import java.io.StringReader;
import java_cup.runtime.*;
import org.apache.xml.dtm.DTM;
import org.apache.xalan.xslt.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xslt.runtime.Operators;
import org.apache.xalan.xslt.compiler.util.ErrorMsg;

parser code {
/**
 * Used by function calls with no args.
 */
static public final Vector EmptyArgs = new Vector(0);

/**
 * Reference to non-existing variable.
 */
static public final VariableRef DummyVarRef = null;

/**
 * Reference to the Parser class.
 */
privateParser _parser;
private XSLTC _xsltc;

/**
 * String representation of the expression being parsed.
 */
private String _expression;

/**
 * Line number where this expression/pattern was declared.
 */
private int _lineNumber = 0;

/**
 * Reference to the symbol table.
 */
public SymbolTable _symbolTable;

public XPathParser(Parser parser) {
    _parser = parser;
    _xsltc = parser.getXSLTC();
    _symbolTable = parser.getSymbolTable();
}

public int getLineNumber() {
    return _lineNumber;
}

public QName getQNameIgnoreDefaultNs(String name) {
    return _parser.getQNameIgnoreDefaultNs(name);
}

public QName getQName(String namespace, String prefix, String localname) {
    return _parser.getQName(namespace, prefix, localname);
}

public void setMultiDocument(boolean flag) {
    _xsltc.setMultiDocument(flag);
}

public void setCallsNodeset(boolean flag) {
    _xsltc.setCallsNodeset(flag);
}

public void setHasIdCall(boolean flag) {
    _xsltc.setHasIdCall(flag);
}

/**
 * This method is similar to findNodeType(int, Object) except that it
 * creates a StepPattern instead of just returning a node type. It also
 * differs in the way it handles "[uri]::*" and "[uri]::*". The last two
 * patterns are expanded as "*[namespace-uri() = 'uri']" and
 * "@*[namespace-uri() = 'uri']", respectively. This expansion considerably
 * simplifies the grouping of patterns in the Mode class. For this
 * expansion to be correct, the priority of the pattern/template must be
 * set to -0.25 (when no other predicates are present).
 */
public StepPattern createStepPattern(int axis, Object test, Vector predicates) {
    int nodeType;

    if (test == null) { // "*"
        nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
                   (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
    }
    else if (test instanceof Integer) {
        nodeType = ((Integer) test).intValue();
    }
    else {
        QName name = (QName)test;
        boolean setPriority = false;

        if (axis == Axis.NAMESPACE) {
            nodeType = (name.toString().equals("*")) ? -1
                    : _xslt.registerNamespacePrefix(name);;
        }
        else {
            final String uri = name.getNamespace();
            final String local = name.getLocalPart();
            final QName namespace_uri =
                _parser.getQNameIgnoreDefaultNs("namespace-uri");

            // Expand {uri}:* to *[namespace-uri() = 'uri'] - same for @* 
            if (uri != null && (local.equals("*") || local.equals("@*")))) {
                if (predicates == null) {
                    predicates = new Vector(2);
                // Priority is set by hand if no other predicates exist
                setPriority = (predicates.size() == 0);
                predicates.add(
                    new Predicate(
                        new EqualityExpr(Operators.EQ,
                                        new NamespaceUriCall(namespace_uri),
                                        new LiteralExpr(uri)));
                }
                }

            } // Priority is set by hand if no other predicates exist
            setPriority = (predicates.size() == 0);

            predicates.add(
                new Predicate(
                    new EqualityExpr(Operators.EQ,
                                    new NamespaceUriCall(namespace_uri),
                                    new LiteralExpr(uri)));
            }

        if (local.equals("*")) {
            nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
                               : NodeTest.ELEMENT;
        }
}
else if (local.equals("@*")) {
    nodeType = NodeTest.ATTRIBUTE;
}

private StepPattern createPattern(int axis, QName prefix, String local, String namespace, int setPriority) {
    // Create node type
    if (local.equals("@*")) {
        nodeType = NodeTest.ATTRIBUTE;
    } else {
        nodeType = (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name) : _xsltc.registerElement(name);
    }

    // Set priority for case prefix:* and prefix:@* (no predicates)
    if (setPriority) {
        result.setPriority(-0.25);
    }

    return result;
}

public int findNodeType(int axis, Object test) {
    // Check for null prefix
    if (test == null) {  // *
    }

    else if (test instanceof Integer) {
        return ((Integer)test).intValue();
    }

    else {
        QName name = (QName)test;

        if (namespace == null) {
            final String local = name.getLocalPart();

            if (local.equals("@*")) {
                return NodeTest.ATTRIBUTE;
            }
        }

        return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE : NodeTest.ELEMENT;
    }
}

if (local.equals("@*")) {
    return NodeTest.ATTRIBUTE;
}

else if (local.equals("@*")) {
    return NodeTest.ATTRIBUTE;
}
parse(String expression, int lineNumber) throws Exception { try {
   _expression = expression;
   _lineNumber = lineNumber;
   return super.parse();
}
  catch (IllegalCharException e) {
      ErrorMsg err = new ErrorMsg(ErrorMsg.ILLEGAL_CHAR_ERR, lineNumber, e.getMessage());
      _parser.reportError(Constants.FATAL, err);
  }
  return null;
}

lookupName(QName name) {
   // Is it a local var or param?
   final SyntaxTreeNode result = _parser.lookupVariable(name);
   if (result != null)
      return result;
   else
      return _symbolTable.lookupName(name);
}

addError(ErrorMsg error) {
   _parser.reportError(Constants.ERROR, error);
public void report_error(String message, Object info) {
    final ErrorMsg err = new ErrorMsg(ErrorMsg.SYNTAX_ERR, _lineNumber, _expression);
    _parser.reportError(Constants.FATAL, err);
}

public void report_fatal_error(String message, Object info) {
    // empty
}

public RelativeLocationPath insertStep(Step step, RelativeLocationPath rlp) {
    if (rlp instanceof Step) {
        return new ParentLocationPath(step, (Step) rlp);
    } else if (rlp instanceof ParentLocationPath) {
        final ParentLocationPath plp = (ParentLocationPath) rlp;
        final RelativeLocationPath newrlp = insertStep(step, plp.getPath());
        return new ParentLocationPath(newrlp, plp.getStep());
    } else {
        addError(new ErrorMsg(ErrorMsg.INTERNAL_ERR, "XPathParser.insertStep"));
        return rlp;
    }
}

/**
 * Returns true if the axis applies to elements only. The axes
 * child, attribute, namespace, descendant result in non-empty
 * nodesets only if the context node is of type element.
 */
  public boolean isElementAxis(int axis) {
        return (axis == Axis.CHILD || axis == Axis.ATTRIBUTE ||
                axis == Axis.NAMESPACE || axis == Axis.DESCENDANT);
    }
}

terminal SLASH, DOT, LBRACK, RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;
terminal DOLLAR, ATSIGN;
terminal DDOT, DCOLON, DSLASH;
terminal EQ, NE;
terminal LT, GT, LE, GE;
terminal PLUS, MINUS, DIV, MOD, MULT;
terminal String Literal;
terminal String QNAME;
terminal ID, KEY, TEXT, NODE, OR, AND, COMMENT, PI, PIPARAM, PRECEDINGSIBLING;
terminal SELF, PARENT, CHILD, ATTRIBUTE, ANCESTOR, ANCESTORORSELF, DESCENDANT;
terminal DESCENDANTORSELF, FOLLOWING, FOLLOWINGSIBLING, NAMESPACE, PRECEDING;
terminal Double REAL;
terminal Long INT;
terminal PATTERN, EXPRESSION;

non terminal SyntaxTreeNode TopLevel;

non terminal Expression Expr, Argument, LocationPath;
non terminal Expression Predicate, FilterExpr, Step;
non terminal Expression OrExpr, AndExpr, EqualityExpr;
non terminal Expression RelationalExpr, AdditiveExpr;
non terminal Expression MultiplicativeExpr, UnaryExpr;
non terminal Expression VariableReference, FunctionCall;
non terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;
non terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;
non terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;

non terminal Object NodeTest, NameTest;

non terminal IdKeyPattern IdKeyPattern;
non terminal Pattern Pattern;
non terminal Pattern LocationPathPattern;
non terminal StepPattern ProcessingInstructionPattern;
non terminal RelativePathPattern RelativePathPattern;
non terminal StepPattern StepPattern;
non terminal Object NodeTestPattern, NameTestPattern;

non terminal Vector Predicates, NonemptyArgumentList;
non terminal QName QName, FunctionName, VariableName;
non terminal Integer AxisName, AxisSpecifier;
non terminal Integer ChildOrAttributeAxisSpecifier;

precedence left VBAR;
precedence left OR;
precedence left AND;
precedence nonassoc EQ, NE;
precedence left LT, GT, LE, GE;

precedence left PLUS, MINUS;
precedence left DIV, MOD, MULT;
precedence left DOLLAR;
precedence left ATSIGN;
precedence right DCOLOM;

start with TopLevel;

TopLevel ::= PATTERN Pattern:pattern
            [: RESULT = pattern; :]
/* --------------------------- Patterns ----------------------------------- */

Pattern ::= LocationPathPattern:lp
{: RESULT = lpp ; :}

| LocationPathPattern:lp VBAR Pattern:p
{: RESULT = new AlternativePattern(lpp, p); :};

LocationPathPattern ::= SLASH
{: RESULT = new AbsolutePathPattern(null); :}

| SLASH RelativePathPattern:rpp
{: RESULT = new AbsolutePathPattern(rpp); :}

| IdKeyPattern:ikp
{: RESULT = ikp ; :}

| IdKeyPattern:ikp SLASH RelativePathPattern:rpp
{: RESULT = new ParentPattern(ikp, rpp); :}

| IdKeyPattern:ikp DSLASH RelativePathPattern:rpp
{: RESULT = new AncestorPattern(ikp, rpp); :}

| DSLASH RelativePathPattern:rpp
{: RESULT = new AncestorPattern(rpp); :}

| RelativePathPattern:rpp
{: RESULT = rpp ; :};

IdKeyPattern ::= ID LPAREN Literal:l RPAREN
{: RESULT = new IdPattern(l);
    parser.setHasIdCall(true);
    :}

| KEY LPAREN Literal:l1 COMMA Literal:l2 RPAREN
{: RESULT = new KeyPattern(l1, l2); :};

ProcessingInstructionPattern ::= PIPARAM LPAREN Literal:l RPAREN
{: RESULT = new ProcessingInstructionPattern(l); :};

RelativePathPattern ::= StepPattern:sp
{: RESULT = sp ; :}

| StepPattern:sp SLASH RelativePathPattern:rpp
| StepPattern: sp DSLASH RelativePathPattern: rpp
| : RESULT = new AncestorPattern(sp, rpp); |

StepPattern ::= NodeTestPattern: nt
| : RESULT = parser.createStepPattern(Axis.CHILD, nt, null);
|
| NodeTestPattern: nt Predicates: pp
| : RESULT = parser.createStepPattern(Axis.CHILD, nt, pp);
|
| ProcessingInstructionPattern: pip
| : RESULT = pip; |

| ProcessingInstructionPattern: pip Predicates: pp
| : RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp); |

| ChildOrAttributeAxisSpecifier: axis NodeTestPattern: nt
| : RESULT = parser.createStepPattern(axis.intValue(), nt, null);
|
| ChildOrAttributeAxisSpecifier: axis
| NodeTestPattern: nt Predicates: pp
| : RESULT = parser.createStepPattern(axis.intValue(), nt, pp);
|
| ChildOrAttributeAxisSpecifier: axis ProcessingInstructionPattern: pip
| : RESULT = pip; // TODO: report error if axis is attribute
|
| ChildOrAttributeAxisSpecifier: axis ProcessingInstructionPattern: pip
| Predicates: pp
| : // TODO: report error if axis is attribute
| RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp);
|

NodeTestPattern ::= NameTestPattern: nt
| : RESULT = nt; |

| NODE
null

NameTestPattern ::= STAR
{ : RESULT = null; : }

| QName:qn
{ : RESULT = qn; : }

ChildOrAttributeAxisSpecifier ::= ATSIGN
{ : RESULT = new Integer(Axis.ATTRIBUTE); : }

| CHILD DCOLON
{ : RESULT = new Integer(Axis.CHILD); : }

| ATTRIBUTE DCOLON
{ : RESULT = new Integer(Axis.ATTRIBUTE); : }

Predicates ::= Predicate:p
{ :
    Vector temp = new Vector();
    temp.addElement(p);
    RESULT = temp;
    :
}

| Predicate:p Predicates:pp
{ : pp.addElement(p, 0); RESULT = pp; : }

Predicate ::= LBRACK Expr:e RBRACK
{ :
    RESULT = new Predicate(e);
    :
}

/* --------------------------- Expressions --------------------------------- */

Expr ::= OrExpr:ex
{ : RESULT = ex; : }

OrExpr ::= AndExpr:ae
{ : RESULT = ae; : }
```plaintext
| OrExpr:oe OR AndExpr:ae
{} RESULT = new LogicalExpr(LogicalExpr.OR, oe, ae); |

AndExpr ::= EqualityExpr:ee
{} RESULT = ee; |

| AndExpr:ae AND EqualityExpr:ee
{} RESULT = new LogicalExpr(LogicalExpr.AND, ae, ee); |

EqualityExpr ::= RelationalExpr:re
{} RESULT = re; |

| EqualityExpr:ee EQ RelationalExpr:re
{} RESULT = new EqualityExpr(Operators.EQ, ee, re); |

| EqualityExpr:ee NE RelationalExpr:re
{} RESULT = new EqualityExpr(Operators.NE, ee, re); |

RelationalExpr ::= AdditiveExpr:ae
{} RESULT = ae; |

| RelationalExpr:re LT AdditiveExpr:ae
{} RESULT = new RelationalExpr(Operators.LT, re, ae); |

| RelationalExpr:re GT AdditiveExpr:ae
{} RESULT = new RelationalExpr(Operators.GT, re, ae); |

| RelationalExpr:re LE AdditiveExpr:ae
{} RESULT = new RelationalExpr(Operators.LE, re, ae); |

| RelationalExpr:re GE AdditiveExpr:ae
{} RESULT = new RelationalExpr(Operators.GE, re, ae); |

AdditiveExpr ::= MultiplicativeExpr:me
{} RESULT = me; |

| AdditiveExpr:ae PLUS MultiplicativeExpr:me
{} RESULT = new BinOpExpr(BinOpExpr.PLUS, ae, me); |

| AdditiveExpr:ae MINUS MultiplicativeExpr:me
{} RESULT = new BinOpExpr(BinOpExpr.MINUS, ae, me); |

MultiplicativeExpr ::= UnaryExpr:ue
{} RESULT = ue; |

| MultiplicativeExpr:me MULT UnaryExpr:ue
{} RESULT = new BinOpExpr(BinOpExpr.TIMES, me, ue); |
```
MultiplicativeExpr:me DIV UnaryExpr:ue
 {. RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue); }

MultiplicativeExpr:me MOD UnaryExpr:ue
 {. RESULT = new BinOpExpr(BinOpExpr.MOD, me, ue); }

UnaryExpr ::= UnionExpr:ue
 {. RESULT = ue; }

MINUS UnaryExpr:ue
 {. RESULT = new UnaryOpExpr(ue); }

UnionExpr ::= PathExpr:pe
 {. RESULT = pe; }

PathExpr:pe VBAR UnionExpr:rest
 {. RESULT = new UnionPathExpr(pe, rest); }

PathExpr ::= LocationPath:lp
 {. RESULT = lp; }

FilterExpr:fexp
 {. RESULT = fexp; }

FilterExpr:fexp SLASH RelativeLocationPath:rlp
 {. RESULT = new FilterParentPath(fexp, rlp); }

FilterExpr:fexp DSLASH RelativeLocationPath:rlp
 :
 // Expand '//' into '/descendant-or-self::node()' or
 // into /descendant-or-self::*
 //
 int nodeType = DOM.NO_TYPE;
 if (rlp instanceof Step &&
    parser.isElementAxis(((Step) rlp).getAxis()))
 {
    nodeType = DTM.ELEMENT_NODE;
 }
 final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
 FilterParentPath fpp = new FilterParentPath(fexp, step);
 fpp = new FilterParentPath(fpp, rlp);
 if (fexp instanceof KeyCall == false) {
    fpp.setDescendantAxis();
 }
 RESULT = fpp;
 ;}
LocationPath ::= RelativeLocationPath:rlp
{: RESULT = rlp; :}

| AbsoluteLocationPath:alp
{: RESULT = alp; :};

RelativeLocationPath ::= Step:step
{: RESULT = step; :}

| RelativeLocationPath:rlp SLASH Step:step
{: if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {
    RESULT = step;       // Remove './' from the middle
} else if (((Step) step).isAbbreviatedDot()) {
    RESULT = rlp;        // Remove '/.' from the end
} else {
    RESULT =
    new ParentLocationPath((RelativeLocationPath) rlp, step);
}
{:}

| AbbreviatedRelativeLocationPath:arlp
{: RESULT = arlp; :};

AbsoluteLocationPath ::= SLASH
{: RESULT = new AbsoluteLocationPath(); :}

| SLASH RelativeLocationPath:rlp
{: RESULT = new AbsoluteLocationPath(rlp); :}

| AbbreviatedAbsoluteLocationPath:aalp
{: RESULT = aalp; :};

AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSLASH Step:step
{: final Step right = (Step)step;
    final int axis = right.getAxis();
    final int type = right.getNodeType();
    final Vector predicates = right.getPredicates();

    if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) {
        // Compress '/child:E' into 'descendant::E' if possible
        if (predicates == null) {
            right.setAxis(Axis.DESCENDANT);
            if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {

RESULT = right;
}
else {
    // Expand 'rlp/child::E' into 'rlp/descendant::E'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    RESULT = new ParentLocationPath(left, right);
}
}
else {
    // Expand 'rlp//child::E' into 'rlp/descendant::E'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    RESULT = new ParentLocationPath(left, right);
}
}
int nodeType = DOM.NO_TYPE;
if (rlp instanceof Step &&
     parser.isElementAxis(((Step) rlp).getAxis()))
{
    nodeType = DTM.ELEMENT_NODE;
}
final Step step = new Step(Axis.DESCendantOrSelf, nodeType, null);
RESULT = new AbsoluteLocationPath(parser.insertStep(step,
( RelativeLocationPath ) rlp));

Step ::= NodeTest:ntest
{:  
     if (ntest instanceof Step) {
         RESULT = (Step)ntest;
     } else {
         RESULT = new Step(Axis.CHild,
                         parser.findNodeType(Axis.CHild, ntest),
                         null);
     }
}

| NodeTest:ntest Predicates:pp
{:  
     if (ntest instanceof Step) {
         Step step = (Step)ntest;
         step.addPredicates(pp);
         RESULT = (Step)ntest;
     } else {
         RESULT = new Step(Axis.CHild,
                         parser.findNodeType(Axis.CHild, ntest),
                         pp);
     }
}

| AxisSpecifier:axis NodeTest:ntest Predicates:pp
{:  RESULT = new Step(axis.intValue(),
                          parser.findNodeType(axis.intValue(), ntest),
                          pp);
}

| AxisSpecifier:axis NodeTest:ntest
{:  RESULT = new Step(axis.intValue(),
                          parser.findNodeType(axis.intValue(), ntest),
                          null);}
AbbreviatedStep::abbrev
{: RESULT = abbrev; :};

AxisSpecifier ::= AxisName:an DCOLON
{: RESULT = an; :}

| ATSIGN
{: RESULT = new Integer(Axis.ATTRIBUTE); :};

AxisName ::= ANCESTOR
{: RESULT = new Integer(Axis.ANCESTOR); :}

| ANCESTORORSELF
{: RESULT = new Integer(Axis.ANCESTORORSELF); :}

| ATTRIBUTE
{: RESULT = new Integer(Axis.ATTRIBUTE); :}

| CHILD
{: RESULT = new Integer(Axis.CHILD); :}

| DESCENDANT
{: RESULT = new Integer(Axis.DESCENDANT); :}

| DESCENDANTORSELF
{: RESULT = new Integer(Axis.DESCENDANTORSELF); :}

| FOLLOWING
{: RESULT = new Integer(Axis.FOLLOWING); :}

| FOLLOWINGSIBLING
{: RESULT = new Integer(Axis.FOLLOWINGSIBLING); :}

| NAMESPACE
{: RESULT = new Integer(Axis.NAMESPACE); :}

| PARENT
{: RESULT = new Integer(Axis.PARENT); :}

| PRECEDING
{: RESULT = new Integer(Axis.PRECEDING); :}

| PRECEDINGSIBLING
{: RESULT = new Integer(Axis.PRECEDINGSIBLING); :}

| SELF
AbbreviatedStep ::= DOT
{: RESULT = new Step(Axis.SELF, NodeTest.ANODE, null); :}
| DDOT
{: RESULT = new Step(Axis.PARENT, NodeTest.ANODE, null); :};

FilterExpr ::= PrimaryExpr:primary
{: RESULT = primary; :}
| PrimaryExpr:primary Predicates:pp
{: RESULT = new FilterExpr(primary, pp); :};

PrimaryExpr ::= VariableReference:vr
{: RESULT = vr; :}
| LPAREN Expr:ex RPAREN
{: RESULT = ex; :}

| Literal:string
{: */
* If the string appears to have the syntax of a QName, store
* namespace info in the literal expression. This is used for
* element-available and function-available functions, among
* others. Also, the default namespace must be ignored.
*/
String namespace = null;
final int index = string.lastIndexOf(':');

if (index > 0) {
    final String prefix = string.substring(0, index);
    namespace = parser._symbolTable.lookupNamespace(prefix);
}
RESULT = (namespace == null) ? new LiteralExpr(string)
    : new LiteralExpr(string, namespace);

| INT:num
{: long value = num.longValue();
    if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) {
        RESULT = new RealExpr(value);
    } else {
        if (num.doubleValue() == -0)
            RESULT = new RealExpr(num.doubleValue());


else if (num.intValue() == 0)
    RESULT = new IntExpr(num.intValue());
else if (num.doubleValue() == 0.0)
    RESULT = new RealExpr(num.doubleValue());
else
    RESULT = new IntExpr(num.intValue());
}

| REAL: num
| : RESULT = new RealExpr(num.doubleValue()); : |

| FunctionCall: fc
| : RESULT = fc; : |

VariableReference ::= DOLLAR VariableName: varName

| : // An empty qname prefix for a variable or parameter reference
| : // should map to the null namespace and not the default URI.
| SyntaxTreeNode node = parser.lookupName(varName);

if (node != null) {
    if (node instanceof Variable) {
        RESULT = new VariableRef((Variable)node);
    }
    else if (node instanceof Param) {
        RESULT = new ParameterRef((Param)node);
    }
    else {
        RESULT = new UnresolvedRef(varName);
    }
}

if (node == null) {
    RESULT = new UnresolvedRef(varName);
}

| FunctionCall ::= FunctionName: fname LPAREN RPAREN
| : //
| : if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
| : RESULT = new CurrentCall(fname);
| }

| else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
| : RESULT = new NumberCall(fname, parser.EmptyArgs);
| }

| else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
RESULT = new StringCall(fname, parser.EmptyArgs);

} else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
    RESULT = new ConcatCall(fname, parser.EmptyArgs);
}

} else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {
    RESULT = new BooleanExpr(true);
}

} else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {
    RESULT = new BooleanExpr(false);
}

} else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
    RESULT = new NameCall(fname);
}

} else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
}

} else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, parser.EmptyArgs);
}

} else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {
    RESULT = new PositionCall(fname);
}

} else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {
    RESULT = new LastCall(fname);
}

} else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname);
}

} else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname);
}

} else {
    RESULT = new FunctionCall(fname, parser.EmptyArgs);
}

| FunctionName:fname LPAREN NonemptyArgumentList:argl RPAREN |
|: if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
    RESULT = new ConcatCall(fname, argl);
}

} else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
    RESULT = new NumberCall(fname, argl);
}

} else if (parser.getQNameIgnoreDefaultNs("document").equals(fname)) {
    parser.setMultiDocument(true);
    RESULT = new DocumentCall(fname, argl);
else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
    RESULT = new StringCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) {
    RESULT = new BooleanCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
    RESULT = new NameCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) {
    RESULT = new NotCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) {
    RESULT = new FormatNumberCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
    RESULT = new UnparsedEntityUriCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
    parser.setHasIdCall(true);
}
else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname)) {
    RESULT = new CeilingCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
    RESULT = new RoundCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
    RESULT = new FloorCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
    RESULT = new ContainsCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
    RESULT = new StartsWithCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {

RESULT = new FunctionAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname)) {
    RESULT = new ElementAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
    RESULT = new LangCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname, argl);
}
else if (parser.getQName(Translet.uri, "xslt", "cast").equals(fname)) {
    RESULT = new CastCall(fname, argl);
}
else if (fname.getLocalPart().equals("nodeset") || fname.getLocalPart().equals("node-set")) {
    parser.setCallsNodeset(true); // implies MultiDOM
    RESULT = new FunctionCall(fname, argl);
}
else {
    RESULT = new FunctionCall(fname, argl);
}
};

NonemptyArgumentList ::= Argument:arg
    {:
        Vector temp = new Vector();
        temp.addElement(arg);
        RESULT = temp;
    :}
    | Argument:arg COMMA NonemptyArgumentList:argl
    {: argl.insertElementAt(arg, 0); RESULT = argl; :};

FunctionName ::= QName:fname
    {:
        RESULT = fname;
    :};

VariableName ::= QName:vname
    {:
        RESULT = vname;
    :};

Argument ::= Expr:ex
NodeTest ::= NameTest:nt
{: RESULT = nt; :}

| NODE
{: RESULT = new Integer(NodeTest.ANODE); :}

| TEXT
{: RESULT = new Integer(NodeTest.TEXT); :}

| COMMENT
{: RESULT = new Integer(NodeTest.COMMENT); :}

| PIPARAM LPAREN Literal:l RPAREN
{: QName name = parser.getQNameIgnoreDefaultNs("name");
Expression exp = new EqualityExpr(Operators.EQ,
     new NameCall(name),
     new LiteralExpr(l));
Vector predicates = new Vector();
predicates.addElement(new Predicate(exp));
RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates);
 :}

| PI
{: RESULT = new Integer(NodeTest.PI); :}

NameTest ::= STAR
{: RESULT = null; :}

| QName:qn
{: RESULT = qn; :};

QName ::= QNAME:qname
{: RESULT = parser.getQNameIgnoreDefaultNs(qname); :}

| DIV
{: RESULT = parser.getQNameIgnoreDefaultNs("div"); :}

| MOD
{: RESULT = parser.getQNameIgnoreDefaultNs("mod"); :}

| KEY
{: RESULT = parser.getQNameIgnoreDefaultNs("key"); :}

| ANCESTOR
{: RESULT = parser.getQNameIgnoreDefaultNs("child"); :}
ANCESTORORSELF
{: RESULT = parser.getQNameIgnoreDefaultNs("ancestor-or-self"); :}

ATTRIBUTE
{: RESULT = parser.getQNameIgnoreDefaultNs("attribute"); :}

CHILD
{: RESULT = parser.getQNameIgnoreDefaultNs("child"); :}

DESCENDANT
{: RESULT = parser.getQNameIgnoreDefaultNs("descendant"); :}

DESCENDANTORSELF
{: RESULT = parser.getQNameIgnoreDefaultNs("descendant-or-self"); :}

FOLLOWING
{: RESULT = parser.getQNameIgnoreDefaultNs("following"); :}

FOLLOWINGSIBLING
{: RESULT = parser.getQNameIgnoreDefaultNs("following-sibling"); :}

NAMESPACE
{: RESULT = parser.getQNameIgnoreDefaultNs("namespace"); :}

PARENT
{: RESULT = parser.getQNameIgnoreDefaultNs("parent"); :}

PRECEDING
{: RESULT = parser.getQNameIgnoreDefaultNs("preceding"); :}

PRECEDINGSIBLING
{: RESULT = parser.getQNameIgnoreDefaultNs("preceding-sibling"); :}

SELF
{: RESULT = parser.getQNameIgnoreDefaultNs("self"); :}

ID
{: RESULT = parser.getQNameIgnoreDefaultNs("id"); :};

Found in path(s):
*/
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xslt/compiler/xpath.cup
No license file was found, but licenses were detected in source scan.

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*/

// is found, then throw a special exception in order to terminate

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/TransformerFactoryImpl.java
No license file was found, but licenses were detected in source scan.

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 */

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathStylesheetDOM3Exception.java
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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/**
* Execute the proprietary document-location() function, which returns
* a node set of documents.
* @xsl.usage advanced
*/

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/functions(FuncDoclocation.java
No license file was found, but licenses were detected in source scan.

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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*/
/*
/* $Id: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas $ */
/*
* @author Jacek Ambroziak
* @author Santiago Pericas-Geertsen
* @author Morten Jorgensen
* */

package org.apache.xalan.xslt.compiler;

import java_cup.runtime.Symbol;
```java
//
%c
%cunicode
%class XPathLexer
%yyeof
%
{
    int last;

    void initialize() {
        last = -1;
    }

    static boolean isWhitespace(int c) {
        return (c == ' ' || c == '	' || c == '' || c == '
' || c == '');
    }

/**
 * If symbol is not followed by '::' or '(', then treat it as a
 * name instead of an axis or function (Jira-1912).
 */
Symbol disambiguateAxisOrFunction(int ss) throws Exception {
    // Peek in the input buffer without changing the internal state
    int index = yy_buffer_index;

    // Skip whitespace
    while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
        index++;
    }

    // If end of buffer, can't disambiguate :
    if (index >= yy_buffer_read) {
        // Can't disambiguate, so return as symbol
        return new Symbol(ss);
    }

    // Return symbol if next token is '::' or '('
    if (yy_buffer[index] == ':' && yy_buffer[index+1] == ':')
        return new Symbol(ss);
    if (yy_buffer[index] == '(')
        return newSymbol(sym.QNAME, yytext());

    /**
     * If symbol is first token or if it follows any of the operators
     * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
     * name instead of a keyword (Jira-1912).
     */
    Symbol disambiguateOperator(int ss) throws Exception {
```

switch (last) {  
case -1: // first token  
case sym.ATSIGN:  
case sym.DCOLON:  
case sym.LPAREN:  
case sym.LBRACK:  
case sym.COMMA:  
case sym.AND:  
case sym.OR:  
case sym.MOD:  
case sym.DIV:  
case sym.MULT:  
case sym.SLASH:  
case sym.DSLSH:  
case sym.VBAR:  
case sym.PLUS:  
case sym.MINUS:  
case sym.EQ:  
case sym.NE:  
case sym.LT:  
case sym.LE:  
case sym.GT:  
case sym.GE:  
    return newSymbol(sym.QNAME, yytext());  
}  
return newSymbol(ss);  
}

/**  
* If symbol is first token or if it follows any of the operators  
* listed in http://www.w3.org/TR/xpath#exprlex then treat as a  
* wildcard instead of a multiplication operator  
*/  
Symbol disambiguateStar() throws Exception {  
    switch (last) {  
case -1: // first token  
case sym.ATSIGN:  
case sym.DCOLON:  
case sym.LPAREN:  
case sym.LBRACK:  
case sym.COMMA:  
case sym.AND:  
case sym.OR:  
case sym.MOD:  
case sym.DIV:  
case sym.MULT:  
case sym.SLASH:  
case sym.DSLSH:
case sym.VBAR:
case sym.PLUS:
case sym.MINUS:
case sym.EQ:
case sym.NE:
case sym.LT:
case sym.LE:
case sym.GT:
case sym.GE:
    return newSymbol(sym.STAR);
}
return newSymbol(sym.MULT);
}

Symbol newSymbol(int ss) {
    last = ss;
    return new Symbol(ss);
}

Symbol newSymbol(int ss, String value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Long value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Double value) {
    last = ss;
    return new Symbol(ss, value);
}
%
%eofval{
    return newSymbol(sym.EOF);
}%eofval
%
%yylexthrow{
    Exception
}%yylexthrow

Letter={BaseChar}|{Ideographic}

BaseChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u0100-\u0131\u0134-\u013E\u0141-\u0148\u014A-\u017E\u0180-\u01C3\u01CD-\u01F0-\u01F4-\u01F5\u01FA-\u0217\u0250-\u02A8-\u02BB-\u02C1-\u0386-\u0388-\u038A-\u038C-\u038E-\u03A1-\u03A3-\u03CE-\u03D0-
NCNameChar={{Letter}|{Digit}}|\"\"|\"\_\"|\{"CombiningChar\}|\{"Extender\}|\{"NCNameStartChar\}|\u00B7|\[\u0300-\u036F\]|\[\u0130-\u0136\]

NCNameStartChar=|\u0041-\u005A|\u0061-\u007A|\u00C0-\u00D6|\u00D8-\u02FF|\u0370-\u037D|\u037F-\u1FFF|\u200C-\u200D|\u2070-\u218F|\u2C00-\u2FEF|\u3001-\uD7FF|\uF900-\uFDCF|\uFDF0-\uFFFD|\u005F|\[\u4E00-\u9FA5\]|\u706B-\u9A6C|\u5B66-\u8100|\u8A70-\u9FD5|\uA92B-\uFA97|\u4E00-\u9FA5]

HighSurrogate=\uDC00-\uDFFF

LowSurrogate=|\u0800-\uDBFF|

%%

"*" { return disambiguateStar(); }  
"/" { return newSymbol(sym.SLASH); }  
"+" { return newSymbol(sym.PLUS); }  
"-" { return newSymbol(sym.MINUS); }  
"div" { return disambiguateOperator(sym.DIV); }  
"mod" { return disambiguateOperator(sym.MOD); }  
"::" { return newSymbol(sym.DCOLON); }  
"," { return newSymbol(sym.COMMA); }  
"@" { return newSymbol(sym.ATSIGN); }  
".." { return newSymbol(sym.DDOT); }  
"[$" { return newSymbol(sym.DOLLAR); }  
"//" { return newSymbol(sym.DSLASH); }  
"=" { return newSymbol(sym.EQ); }  
"!=" { return newSymbol(sym.NE); }  
"<" { return newSymbol(sym.LT); }  
">" { return newSymbol(sym.GT); }  
"<=" { return newSymbol(sym.LE); }  
">=" { return newSymbol(sym.GE); }  
"id" { return disambiguateAxisOrFunction(sym.ID); }  
"key" { return disambiguateAxisOrFunction(sym.KEY); }  
"text()" { return newSymbol(sym.TEXT); }  
"text+[ \"\n\\r\f\t]+()" { return newSymbol(sym.TEXT); }  
"node()" { return newSymbol(sym.NODE); }  
"node+[ \"\n\\r\f\t]+()" { return newSymbol(sym.NODE); }  
"comment()" { return newSymbol(sym.COMMENT); }  
"comment+[ \"\n\\r\f\t]+()" { return newSymbol(sym.COMMENT); }  
"processing-instruction" { return disambiguateAxisOrFunction(sym.PIPARAM); }  
"processing-instruction()" { return newSymbol(sym.PI); }  
"processing-instruction+[ \"\n\\r\f\t]+()" { return newSymbol(sym.PI); }  
"or" { return disambiguateOperator(sym.OR); }  
"and" { return disambiguateOperator(sym.AND); }  
"child" { return disambiguateAxisOrFunction(sym.CHILD); }  
"attribute" { return disambiguateAxisOrFunction(sym.ATTRIBUTE); }  
"ancestor" { return disambiguateAxisOrFunction(sym.ANCESTOR); }
"ancestor-or-self"  { return disambiguateAxisOrFunction(sym.ANCESTORORSELF); }
"descendant"  { return disambiguateAxisOrFunction(sym.DESCENDANT); }
"descendant-or-self"  { return disambiguateAxisOrFunction(sym.DESCENDANTORSELF); }
"following"  { return disambiguateAxisOrFunction(symOLLOWING); }
"following-sibling"  { return disambiguateAxisOrFunction(sym.FOLLOWINGSIBLING); }
"namespace"  { return disambiguateAxisOrFunction(sym.NAMESPACE); }
"parent"  { return disambiguateAxisOrFunction(sym.PARENT); }
"preceding"  { return disambiguateAxisOrFunction(sym.PRECEDING); }
"preceding-sibling"  { return disambiguateAxisOrFunction(sym.PRECEDINGSIBLING); }
"self"  { return disambiguateAxisOrFunction(sym.SELF); }
"["  { return newSymbol(sym.LBRACK); }
"]"  { return newSymbol(sym.RBRACK); }
"("  { return newSymbol(sym.LPAREN); }
")"  { return newSymbol(sym.RPAREN); }
"<PATTERN>"  { initialize(); return new Symbol(sym.PATTERN); }
"<EXPRESSION>"  { initialize(); return new Symbol(sym.EXPRESSION); }
\["vidia"]+  { return newSymbol(sym.Literal, yytext().substring(1, yytext().length() - 1)); }
\["vidia"]+  { return newSymbol(sym.Literal, yytext().substring(1, yytext().length() - 1)); }
{Digit}+  { return newSymbol(sym.INT, new Long(yytext())); }
{Digit}+("\.[Digit]*")?  { return newSymbol(sym.REAL, new Double(yytext())); }
\."\.[Digit]+  { return newSymbol(sym.REAL, new Double(yytext())); }
\."  { return newSymbol(sym.DOT); }
{{NCName}":"}?{{NCName}}  { return newSymbol(sym.QNAME, yytext()); }
\{"\t\"}"?\{"\t\"}@"??  { return newSymbol(sym.QNAME, yytext()); }
[\t\u000f]  { /* ignore white space. */ }
.  { throw new Exception(yytext()); }

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/xpath.lex
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package org.apache.xalan.processor;

public class XSLProcessorVersion
{

  /**
   * Print the processor version to the command line.
   * @param argv command line arguments, unused.
   */
  public static void main(String argv[])
  {
    System.out.println(S_VERSION);
  }

  /**
   * Constant name of product.
   */
  public static final String PRODUCT = "Xalan";

  /**
   * Implementation Language.
   */
  public static final String LANGUAGE = "Java";

  /**
   * Major version number.
   * Version number. This changes only when there is a
   * significant, externally apparent enhancement from
   * the previous release. 'n' represents the n'th
   * version.
   * Clients should carefully consider the implications
   * of new versions as external interfaces and behaviour
public static final int VERSION = @version.VERSION@;

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static final int RELEASE = @version.RELEASE@;

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static final int MAINTENANCE = @version.MINOR@;

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */
public static final int DEVELOPMENT = 0;

/**
 * Version String like <CODE>"<B>Xalan</B> <B>Language</B> v.r[.dd| <B>D</B>nn"]</CODE>.
 * Semantics of the version string are identical to the Xerces project.</P>
public static final String S_VERSION = PRODUCT + " " + LANGUAGE + " " + VERSION + "." + RELEASE + ";
+(DEVELOPMENT > 0 ? ("D" + DEVELOPMENT) : ("" + MAINTENANCE));

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.src
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/trace/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/client/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/package.html
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*/

// Proprietary, built in functions
/*** current function string (Proprietary). */

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/QueuedEvents.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/XslAttribute.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/NodeLocator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToStream.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/NodeSetType.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/TransformerHandlerImpl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/CurrentCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/When.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/SecuritySupport.java

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------
Eclipse

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

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

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

------
Oracle

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

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

------

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

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

------

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

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

------

Apache

The following artifacts are ASL2 licensed.

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

------

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

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

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

-----
Mortbay

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

org.eclipse.jetty.toolchain:jetty-schemas

-----
Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.682 metrics 4.1.12.1

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1.683 pyasn1 0.4.8
1.683.1 Available under license :
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Metadata-Version: 1.2
Name: pyasn1
Version: 0.4.8
Summary: ASN.1 types and codecs
Home-page: https://github.com/etingof/pyasn1
Author: Ilya Etingof
Author-email: etingof@gmail.com
Maintainer: Ilya Etingof <etingof@gmail.com>
License: BSD
Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
Platform: any
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Education
Classifier: Intended Audience :: Information Technology
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ASN.1 library for Python

-------------------------------
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[![Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.org/project/pyasn1/)
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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on [ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
--------

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.7
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1
----------------

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.
The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1
-----------------

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
  id        INTEGER,
  room  [0] INTEGER OPTIONAL,
  house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
  componentType = NamedTypes(
    NamedType('id', Integer()),
    OptionalNamedType(
      'room', Integer().subtype(
        implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
      ),
    ),
    DefaultedNamedType(
      'house', Integer(0).subtype(
        implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
      ),
    ),
  )
```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
```
Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>> for field in received_record:
>>>    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```
Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the [repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1
-----------------

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question [on Stack Overflow](https://stackoverflow.com/questions/ask) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/tests/codec/cer/__main__.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/tests/codec/cer/test_decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/pyasn1/type/univ.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/pyasn1/codec/cer/decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/tests/compat/test_integer.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/tests/compat/test_char.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/setup.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/pyasn1/codec/der/decoder.py
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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/tests/compat/test_usetful.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/tests/compat/test_octets.py

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Open Source Used In Cloud Native 5G Mobile - BNG cnBNG 2022.03 6398
ASN.1 library for Python

.. toctree::
   :maxdepth: 1

Abstract Syntax Notation One (`ASN.1 <http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x>`_) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.org/project/pyasn1/>`_ library implements ASN.1 support in pure-Python.

What is ASN.1

----------

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.
ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on if was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protocol-buffers/>`_ or `FlatBuffers <https://google.github.io/flatbuffers/>`_, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications

-------------------

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas
-------------

Apparently, ASN.1 is hard to implement properly. Quality open-source
ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the
`statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_ on discovered
security vulnerabilities, many people have implemented ASN.1 parsers
and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood
and security reviewed.

Documentation
-------------

.. toctree::
   :maxdepth: 2

   /pyasn1/contents

Use case
--------

.. toctree::
   :maxdepth: 2

   /example-use-case

Download & Install
------------------

.. toctree::
   :maxdepth: 2

   /download

Changes
-------

All changes and release history is maintained in changelog. There you
could also download the latest unreleased pyasn1 tarball containing
the latest fixes and improvements.
The PyASN1 software is distributed under 2-clause BSD License.


The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson

Here you can get the official standards which is hard to read:


On the other end of the readability spectrum, here is a quick and sweet write up:


If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.
1.684 go-ldap-ldap 3.2.4

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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
  jar/javassist/compiler/NoFieldException.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
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/* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/FloatMemberValue.java */
/* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/StringMemberValue.java */
/* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/ClassMemberValue.java */
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/* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/ArrayMemberValue.java */
/* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
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1.708 perl 5.26.1 6ubuntu0.3
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>,'
  - "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>.'
built_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
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  version: 3

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The End

#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = ";
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*(\d{4,})/s
        or die "Year not found in README copyright message '$copyright_msg'";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
        or die "Copyright statement not found in perl -v output '$output'";

    $year;
}
1.709 gopkg.in-yaml 3.0.0-20210107192922-496545a6307b

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1.710 x-crypto 0.0.0-20190308221718-c2843e01d9a2

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 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
 */
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 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
 */

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1.712 animal-sniffer-annotation 1.14

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```html
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head profile="http://www.w3.org/1999/xhtml/vocab">
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<meta name="viewport" content="width=device-width, initial-scale=1" />
<link rel="shortcut icon" href="https://opensource.org/files/osi_favicon.png" type="image/png" />
```
```
SPDX short identifier: MIT

button onclick="myFunction()">Further resources on the MIT License</button>

p id="demo"</p>

<script>
function myFunction() {
    var x;
    if (confirm("Disclaimer: While the OSI acknowledges these as potentially helpful resources for the community, it does not endorse any content, contributors or license interpretations from these websites. Any links to these resources across opensource.org are solely for navigational purposes. The OSI does not promote or exclusively favor any of the mentioned resources, but instead provides them as separate third-party resource to help inform your opinion. Any content from or links to these resources are separate from the OSI, exist for purely informational purposes and creates no attorney-client relationship between you, the OSI or the resources. If you have questions about how licenses apply to you or your organization, you should seek legal advice.") == true) {
        x = "<br><p>The following are other community resources that may be helpful:<br><a href=https://tldrlegal.com/license/mit-license style='font-weight: bold;'>The MIT License on TLDRLegal</a><br><a href=http://www.gnu.org/licenses/license-list.en.html>GNU License List</a><br><a href=https://en.wikipedia.org/wiki/Comparison_of_free_and_open-source_software_licenses>Wikipedia License List</a><br><a href=http://oss-watch.ac.uk/apps/licdiff/>OSSWatch License Diff</a><br><a href=choosealicense.com>Choosealicense</a>;";
    } else {
        x = " ";
    }
    document.getElementById("demo").innerHTML = x;
}

//--><![-]]>
</script></div>

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1.713 dom 1.0
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ElementEditAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASNotationDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASObject.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/CharacterDataEditAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DOMImplementationAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASModel.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DocumentAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASAttributeDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASElementDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASEntityDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASNamedObjectMap.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASDataType.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASContentModel.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DOMASWriter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DocumentEditAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASObjectList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DOMASBuilder.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DOMASException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/NodeEditAS.java

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*/
/**
* Checks if this content model has had its min/maxOccurs values reduced for
* purposes of speeding up UPA. If so, this content model should not be used
* for any purpose other than checking unique particle attribution
* *
* @return a boolean that says whether this content has been compacted for UPA
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 */

/**
 * DOM Level 3 LS CR - Experimental.
 * Create a new <code>LSParser</code>. The newly constructed parser may
 * then be configured by means of its <code>DOMConfiguration</code>
 * object, and used to parse documents by means of its <code>parse</code>
 * method.
 * @param mode  The <code>mode</code> argument is either
 * <code>MODE_SYNCHRONOUS</code> or <code>MODE_ASYNCHRONOUS</code>, if
 * <code>mode</code> is <code>MODE_SYNCHRONOUS</code> then the
 * <code>LSParser</code> that is created will operate in synchronous
 * mode, if it's <code>MODE_ASYNCHRONOUS</code> then the
 * <code>LSParser</code> that is created will operate in asynchronous
 * mode.
 * @param schemaType  An absolute URI representing the type of the schema
 * language used during the load of a <code>Document</code> using the
 * newly created <code>LSParser</code>. Note that no lexical checking
 * is done on the absolute URI. In order to create a
 * <code>LSParser</code> for any kind of schema types (i.e. the
 * LSParser will be free to use any schema found), use the value
 * <code>null</code>.
 * Note: For W3C XML Schema [<a href='http://www.w3.org/TR/2001/REC-xmlschema-1-20010502'>XML Schema Part 1</a>]
 * , applications must use the value
 * <code>"http://www.w3.org/2001/XMLSchema"</code>. For XML DTD [<a href='http://www.w3.org/TR/2000/REC-xml-20001006'>XML 1.0</a>],
 * applications must use the value
 */
* `<code>"http://www.w3.org/TR/REC-xml"</code>`. Other Schema languages
    * are outside the scope of the W3C and therefore should recommend an
    * absolute URI in order to use this method.
* `@return` The newly created `<code>LSParser</code>` object. This
* `<code>LSParser</code>` is either synchronous or asynchronous
    * depending on the value of the `<code>mode</code>` argument.
* `<p>` `<b>Note:</b>` By default, the newly created `<code>LSParser</code>`
* does not contain a `<code>DOMErrorHandler</code>`, i.e. the value of
* the "<a href='http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-handler'>
*   error-handler</a>" configuration parameter is `<code>null</code>`. However, implementations
* may provide a default error handler at creation time. In that case,
* the initial value of the `<code>"error-handler"</code>` configuration
* parameter on the new created `<code>LSParser</code>` contains a
* reference to the default error handler.
* `<exception DOMException`<b> NOT_SUPPORTED_ERR</b>: Raised if the requested mode or schema type is
* not supported.
*/

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  * `/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java`
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  jar/org/apache/xerces/dom/DOMImplementationListImpl.java`
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*/
/**
 * used to check the 3 constraints against each complex type
 * (should be each model group):
 * Unique Particle Attribution, Particle Derivation (Restriction),
 * Element Declarations Consistent.
 */

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jar/org/apache/xerces/impl/xs/XSConstraints.java

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jar/org/apache/xerces/impl/xs/traversers/XSDocumentInfo.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLHeadElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/DeferredEntityImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/jaxp/validation/StAXDocumentHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/io/Latin1Reader.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dtd/XMLDTDProcessor.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/BooleanDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xni/parser/XMLEntityResolver.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xni/grammars/XMLGrammarDescription.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/util/XSInputSource.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/ValidatedInfo.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/Constants.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/jaxp/validation/Util.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/jaxp/SchemaValidatorConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLOptgroupElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/jaxp/validation/DefaultValidationErrorHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLOptgroupElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/jaxp/SchemaValidatorConfiguration.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLFieldsetElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLDoElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/RangeToken.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/DOMASBuilderImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/NameNodeListImpl.java
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1.716 errors 0.9.1

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1.722 pythonurllib 1.22 1ubuntu0.18.04.2
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# Contributions to the urllib3 project

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## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIbZDhBFxQ6>/
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <http://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingmn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
* Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
* Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
* Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
* Correct six.moves conflict
* Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
* Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
* Stream method for Response objects.
* Return native strings in header values.
* Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
* Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
* Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
* Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
* Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
* Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
* Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
* HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
* Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
* Disabled TLS compression by default on Python 3.2+
* Disabled TLS compression in pyopenssl contrib module
* Configurable cipher suites in pyopenssl contrib module
* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.
* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from ```HTTPResponse.stream()```
  * Bugfix for ```ConnectionPool.urlopen(release_conn=False)```
  * Creation of ```HTTPConnectionPool.ResponseCls```

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported
* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in ``stream`` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vendoring

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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cmd/krb5/kproplog/kproplog.c  
cmd/krb5/slave/kpropd_rpc.c  
lib/gss_mechs/mech_krb5/et/kdb5_err.c  
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h  
lib/gss_mechs/mech_spnego/mech/spnego_mech.c  
lib/krb5/kadm5/kadm_host_srv_names.c
```
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
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lib/libgss/g_rel_buffer.c
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lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g密封.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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1.727 iputils 20161105 1ubuntu3

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It was downloaded from https://github.com/iputils/iputils

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1.730 python-setuptools 39.0.1-2

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1.731 grep 3.1-2

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2004, Stepan Kasal <kasal@ucw.cz>
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1.733 jetty-xml 9.4.35.v20201120

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

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org.apache.tomcat:tomcat-util-scan
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- https://github.com/eclipse-ee4j/jersey

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threshold for this to be true is not precisely defined by law.

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

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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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dns.c - Recursive, Reentrant DNS Resolver.

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1.743 go.uber.org/atomi 1.7.0

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

---------------------------------------------
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### 1.753 base-files 10.1ubuntu2.11

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* /opt/cola/permits/1334904536_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/Messages_zh_CN.properties
* /opt/cola/permits/1334904536_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/Messages_it.properties
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* /opt/cola/permits/1334904536_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-
  jar/com/sun/xml/bind/v2/util/XmlFactory.java

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1.759 commons-daemon 1.3.1

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1.773 jctools-core 3.1.0

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<ul>
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  <li><inceptionYear>2013</inceptionYear></li>
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  <developer>
    <url>https://github.com/RichardWarburton</url>
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    <url>https://github.com/kay</url>
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<url>https://github.com/franz1981</url>
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---

1.774 packaging 17.1

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1.787 goprotobuf 1.3.2

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1.788 cyphar-filepath-securejoin 0.2.2

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1.789 jetty-http 9.4.44.v20210927

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Eclipse

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

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish
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The following artifacts are CDDL + GPLv2 with classpath exception. 
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

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

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

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

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

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

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Apache

The following artifacts are ASL2 licensed.

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

------

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

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.790 logback-json-classic 0.1.5

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1.791 spf13-pflag 1.0.5

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########################################################################
## Constant-time SSSE3 AES core implementation.
## version 0.1

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1.808 go-errors-errors v1.0.2
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Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user’s homedir if possible to prevent repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam.ubuntu/modules/pam_motd/pam_motd.c

--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
close(fd);
 }

+int display_legal(pam_handle_t *pamh)
+{
+    int retval = PAM_IGNORE, rc;
+    char *user = NULL;
+    char *dir = NULL;
+    char *flag = NULL;
+    struct passwd *pwd = NULL;
+    struct stat s;
+    int f;
+    /* Get the user name to determine if we need to print the disclaimer */
+    rc = pam_get_item(pamh, PAM_USER, &user);
+    if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+    {
+        PAM_MODUTIL_DEF_PRIVS(privs);
+        /* Get the password entry */
+        pwd = pam_modutil_getpwnam (pamh, user);
+        if (pwd != NULL)
+        {
+            if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+                pam_syslog(pamh, LOG_ERR,
+                       "Unable to change UID to %d temporarily\n",
+                             pwd->pw_uid);
+                retval = PAM_SESSION_ERR;
+            }
+        }
+    }
if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
    goto finished;
if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
    goto finished;
if (stat(flag, &s) != 0)
    {
        display_file(pamh, "/etc/legal");
        mkdir(dir, 0700);
        f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
                 S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
        if (f>=0) close(f);
    }

finished:
    if (pam_modutil_regain_priv(pamh, &privs)) {
        pam_syslog(pamh, LOG_ERR,
                   "Unable to change UID back to %d\n", privs.old_uid);
        retval = PAM_SESSION_ERR;
    }
    _pam_drop(flag);
    _pam_drop(dir);
return retval;

PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
                          int argc, const char **argv)
{ @@ -116,6 +171,9 @@
    /* Display the updated motd */
    display_file(pamh, motd_path);
    /* Display the legal disclaimer only if necessary */
    retval = display_legal(pamh);
    return retval;
}
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1.812 x-sys 0.0.0-20210616094352-59db8d763f22

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1.814 json-c 0.12.1-1.3ubuntu0.3
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will operate properly with a modified version of the library, if
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interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
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* https://github.com/eclipse-ee4j/metro-ws-test-harness
* https://github.com/eclipse-ee4j/metro-package-rename-task
* https://github.com/eclipse-ee4j/metro-jax-ws
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addressing.xml Version: 2004/10 (n/a)

* License: W3C
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* Source: http://schemas.xmlsoap.org/ws/2004/08/addressing/

ant-launcher (1.10.2)

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* Source:
  http://central.maven.org/maven2/org/apache/ant/ant-launcher/1.10.2/ant-launcher-1.10.2-sources.jar

Apache Ant (1.6)

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* License: Apache-2.0
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* Source:
  http://central.maven.org/maven2/commons-logging/commons-logging/1.1.2/commons-logging-1.1.2-sources.jar

JUnit (4.12)

* License: Eclipse Public License

maven-core (3.5.2)

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maven-plugin-annotations (3.5.1)

* License: Apache-2.0
* Project:
* Source:
  https://github.com/apache/maven-plugin-tools/tree/maven-plugin-tools-3.5.1/maven-plugin-annotations
maven-plugin-api (3.5.2)

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* Project: https://maven.apache.org/
* Source: https://github.com/apache/maven/tree/master/maven-plugin-api

maven-resolver-api (1.1.1)

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mex.xsd Version: 2004/09 (n/a)

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* Project: https://www.w3.org/Submission/WS-MetadataExchange/#appendix-II

plexus-utils (3.1.0)

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relaxng-datatype (1.0)

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stax2-api (4.1)

* License: Pending
* Project: https://github.com/FasterXML/stax2-api

testing (6.14.2)

* License: Apache-2.0 AND MIT
* Project: https://testing.org/doc/index.html
* Source: https://github.com/cbeust/testing

woodstox-core-asl (4.4.1)
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ws-addr.wsd (1.0)

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wsat.xsd Version: 2004/10 (n/a)

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wsrm.xsd (1.2)

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""Types used by cobra, used by mypy

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"

from typing import Any, Dict

JsonDict = Dict[str, Any]
YamlDict = Dict[str, Any]

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1.2.1-tar-gz/cobras-1.2.1/cobras/common/cobra_types.py

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""Utility for batch publishing.

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FIXME: Should be renamed
"

import json

def computeEventTimeDeltas(events: str) -> list:

    lines = events.splitlines()
    N = len(lines)
    assert N > 0, 'event list should not be empty'

    events = [json.loads(line) for line in lines]

    deltas = []
    for i in range(1, N):
        previousTs = events[i - 1]['timestamp']
        currentTs = events[i]['timestamp']
        delta = currentTs - previousTs

        deltas.append((lines[i - 1], delta))
    deltas.append((lines[N-1], 0))
return deltas

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1.tar-gz/cobras-1.2.1/cobras/client/publish.py
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"Publish jobs gets enqueued into a multi-publisher, which publish them to redis in a batch fashion, using a pipeline.

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https://redis.io/topics/pipelining
Weird leaks https://bugs.python.org/issue31620

```python
import asyncio
class PipelinedPublisher():
    def __init__(self, redis, batchSize=None):
        self.redis = redis
        self.queue = asyncio.Queue()
        self.batchSize = batchSize or 100
        self.lock = asyncio.Lock()
        self.xaddMaxLength = 1000

    async def publishAll(self):
        pipe = self.redis.pipeline()
        async with self.lock:
            while True:
                try:
                    job = self.queue.get_nowait()
                except asyncio.QueueEmpty:
                    break
                else:
                    self.publish(pipe, job)
                    self.queue.task_done()
            await pipe.execute()

    def enqueue(self, job):
        self.queue.put_nowait(job)

    def publish(self, pipe, job):
        appkey, channel, data = job
        appChannel = '{}::{}'.format(appkey, channel)
        pipe.xadd(appChannel, {'json': data},
```
async def publishNow(self, job):
    async with self.lock:
        pipe = self.redis.pipeline()
        self.publish(pipe, job)
        await pipe.execute()

async def push(self, job, batchPublish=False):
    if not batchPublish:
        await self.publishNow(job)
        return

    self.enqueue(job)

    if self.queue.qsize() >= self.batchSize:
        await self.publishAll()

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1.2.1-tar-gz/cobras-1.2.1/cobras/server/pipelined_publisher.py
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"""Cobra main driver.
   Calls into sub commands like git.

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""

from pkgutil import walk_packages
import click
import coloredlogs

coloredlogs.install(level='WARNING')

@click.group()
@click.version_option()
def main():
    """
    __  _ _ _
   /   _   _
  //  | | | |
  //  | | | |
  \___\___\___\___

    Cobra is a realtime messaging server using Python3, WebSockets and Redis.
for loader, module_name, is_pkg in walk_packages(__path__, __name__ + '+'):  
module = __import__(module_name, globals(), locals(), ['__name__'])  
cmd = getattr(module, module_name.rsplit('.', 1)[-1])  
if isinstance(cmd, click.Command):  
    main.add_command(cmd)

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/__init__.py
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"""Tools used when running as superuser (which we should almost never do)

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"

import os
import sys

import click

def preventRootUsage():
    """ Make sure a root user cannot run this command""

    if os.geteuid() == 0:
        msg = 'Cobra cannot be run as root / sudo. Exiting'
        click.secho(msg, fg='red')
        sys.exit(1)

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/superuser.py
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"""Setup cobra

Copyright (c) 2018-2019 Machine Zone, Inc. All rights reserved.
"

import click

from cobras.common.apps_config import AppConfig, getDefaultAppsConfigPath
from cobras.common.superuser import preventRootUsage

@click.command()
def init():
Setup cobra

preventedRootUsage()

path = getDefaultAppsConfigPath()
appsConfig = AppsConfig(path)
appsConfig.generateDefaultConfig()

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1.1.tar.gz/cobras-1.2.1/cobras/runner/init.py
No license file was found, but licenses were detected in source scan.

Metadata-Version: 2.1
Name: cobras
Version: 1.2.1
Summary: A realtime messaging server using WebSockets and Redis.
Home-page: https://github.com/machinezone/cobra
Author: Benjamin Sergeant
Author-email: bsergean@gmail.com
License: BSD 3
Description: # General

Cobra is a realtime messaging server using Python3, WebSockets and Redis PubSub. It was presented in great
details during [RedisConf 2019](https://events.redislabs.com/redis-conf/redis-conf-2019/).

* [slides](https://bsergean.github.io/redis_conf_2019/slides.html)
* [youtube](https://www.youtube.com/watch?v=o8CC8qYfRQE&t=147s)

Cobra has been used in production receiving heavy traffic for about a year. Since it was written in Python it was
named after a snake as an homage to a great programming language.

# News

Cobra is actively being developed, check out the [changelog](CHANGELOG.md) to know what's cooking.

# Installation

## With pip

```
pip install cobras
```

## With docker

```
docker pull bsergean/cobra
```
## For development

```
# For development
```

```
- git clone <url>
- cd cobra
- python3 -m venv venv
- source venv/bin/activate
- make dev
- make test
```

# Usage

```
# Usage
```

```
$ cobra
Usage: cobra [OPTIONS] COMMAND [ARGS]...

Cobra is a realtime messaging server using Python3, WebSockets and Redis PubSub.

Options:
  --version  Show the version and exit.
  --help     Show this message and exit.

Commands:
  admin        Run admin commands.
  health       Health check
  init         Setup cobra
  monitor      Monitor cobra
  publish      Publish to a channel
  run          Run the cobra server
  redis_subscribe  Subscribe to a channel (with redis)
  subscribe    Subscribe to a channel
  secret       Generate secrets used for authentication...
```

To run the server use `cobra run`. You can run a health-check against the server with `cobra health`.

```
cobra health --url 'ws://jeanserge.com/v2?appkey=_health' --secret A5a3BdEfbc6Df5AAFFcadE7F9D7F17E -
-role health
```

# Setup

To run in production you will need a redis (version > 5) instance. Here are environment variables that you will
likely want to tweak, to connect to 2 redis instances (for scalability), and to bind on 0.0.0.0 so that the internet can see your instance.

```yaml
- name: COBRA_HOST
  value: 0.0.0.0
- name: COBRA_REDIS_URLS
  value: redis://redis1: redis://redis2
```

# Thank you

There would be no cobra without some other amazing open-source projects and tech. Here are 3 very remarkable ones.

- [Python](https://www.python.org/) (and [asyncio](https://realpython.com/async-io-python/), one of the killer python3 feature !)
  - [Redis](https://redis.io/), the swiss army knife of the internet which provide a very scalable publish/subscribe feature to dispatch messages while retaining them and allowing lookups of old messages (see [Redis Streams](https://redis.io/topics/streams-intro)).

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/ Stable
Classifier: Environment :: Web Environment
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.7
Description-Content-Type: text/markdown
Provides-Extra: dev
Provides-Extra: tests

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```
import os

from cobras.common.apps_config import AppConfig, getDefaultAppsConfigPath

def createCredentials(role, secret):
    return {'role': role, 'secret': secret}

def getDefaultRoleForApp(app) -> str:
    path = os.getenv('COBRA_APPS_CONFIG', getDefaultAppsConfigPath())
    appsConfig = AppConfig(path)
    return appsConfig.getDefaultRoleForApp(app)

def getDefaultSecretForApp(app) -> str:
    path = os.getenv('COBRA_APPS_CONFIG', getDefaultAppsConfigPath())
    appsConfig = AppConfig(path)
    return appsConfig.getDefaultSecretForApp(app)
```

Found in path(s):

```
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/client/credentials.py
```
import click
import uvloop

from cobras.common.superuser import preventRootUsage
from cobras.common.throttle import Throttle
from cobras.server.redis_connections import RedisConnections
from cobras.server.redis_subscriber import (RedisSubscriberMessageHandlerClass,
                                           runSubscriber)

class MessageHandlerClass(RedisSubscriberMessageHandlerClass):
    def __init__(self, obj):
        self.cnt = 0
        self.cntPerSec = 0
        self.throttle = Throttle(seconds=1)

    def log(self, msg):
        print(msg)

    async def on_init(self, redisConnection):
        pass

    async def handleMsg(self, msg: str, position: str,
                        payloadSize: int) -> bool:
        self.cnt += 1
        self.cntPerSec += 1
        if self.throttle.exceedRate():
            return True
            print(f"#messages {self.cnt} msg/s {self.cntPerSec}")
            self.cntPerSec = 0
        return True

@click.command()
@click.option('--redis_urls', default='redis://localhost')
@click.option('--redis_password')
@click.option('--channel')
@click.option('--appkey')
@click.option('--position')
def redis_subscribe(redis_urls, redis_password, channel, position, appkey):
    """Subscribe to a channel

    
    cobra subscribe --redis_urls redis://localhost:7379 --channel foo --appkey bar  # noqa

    
    cobra subscribe --redis_urls redis://6379 --channel foo --appkey bar
    [From a bench container]

    
    cobra subscribe --redis_urls 'redis://localhost:7001;redis://localhost:7002' --channel foo --appkey bar  # noqa
    ""

    preventRootUsage()
    uvloop.install()

    appChannel = '{:[::]:}'.format(appkey, channel)
    redisConnections = RedisConnections(redis_urls, redis_password)
    runSubscriber(redisConnections, appChannel, position, MessageHandlerClass)

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/redis_subscribe.py

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

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Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/bavarde/runner/client.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/server/redis_kv_store.py

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

"""Monitor cobra

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""

import click
import uvloop

from cobras.client.credentials import (createCredentials, getDefaultRoleForApp, getSecretForApp)
from cobras.client.monitor import runMonitor
from cobras.common.apps_config import STATS_APPKEY
from cobras.common.superuser import preventRootUsage
```
DEFAULT_URL = f'ws://127.0.0.1:8765/v2?appkey={STATS_APPKEY}'

@click.command()
@click.option('--url', default=DEFAULT_URL)
@click.option('--role', default=getDefaultRoleForApp('stats'))
@click.option('--secret', default=getDefaultSecretForApp('stats'))
@click.option('--raw', is_flag=True)
@click.option('--hide_nodes', is_flag=True)
@click.option('--hide_roles', is_flag=True)
@click.option('--subscribers', is_flag=True)
@click.option('--role_filter')
@click.option('--system', is_flag=True)
def monitor(url, role, secret, raw, role_filter, hide_nodes, hide_roles, subscribers, system):
    '''Monitor cobra
    '''
    preventRootUsage()
    uvloop.install()
    credentials = createCredentials(role, secret)
    runMonitor(url, credentials, raw, role_filter,
                not hide_nodes, not hide_roles, subscribers, system)

Found in path(s):
  * /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/monitor.py
No license file was found, but licenses were detected in source scan.

'''Subscribe to a channel

Copyright (c) 2018-2019 Machine Zone, Inc. All rights reserved.

import asyncio
import json
import click
import uvloop

from cobras.client.client import subscribeClient
from cobras.client.credentials import (createCredentials, getDefaultRoleForApp,
                                        getDefaultSecretForApp)
from cobras.common.apps_config import PUBSUB_APPKEY
from cobras.common.superuser import preventRootUsage
from cobras.common.throttle import Throttle

DEFAULT_URL = f'ws://127.0.0.1:8765/v2?appkey={PUBSUB_APPKEY}'
```
class MessageHandlerClass:
    def __init__(self, websockets, args):
        self.cnt = 0
        self.cntPerSec = 0
        self.throttle = Throttle(seconds=1)
        self.verbose = args['verbose']

    async def on_init(self):
        pass

    async def handleMsg(self, msg: str) -> bool:
        self.cnt += 1
        self.cntPerSec += 1

        if self.verbose >= 1:
            data = json.loads(msg)
            body = data['body']
            message = body['messages'][0]
            position = body['position']
            print(f'{message} at position {position}')

        if self.throttle.exceedRate():
            return True

        print(f'##messages {self.cnt} msg/s {self.cntPerSec}"
        self.cntPerSec = 0

        return True

@click.command()
@click.option('--url', default=DEFAULT_URL)
@click.option('--role', default=getDefaultRoleForApp('pubsub'))
@click.option('--secret', default=getDefaultSecretForApp('pubsub'))
@click.option('--channel', default='sms_republished_v1_neo')
@click.option('--position')
@click.option('--verbose', '-v', count=True)
@click.option('--stream_sql')
def subscribe(url, role, secret, channel, position, stream_sql, verbose):
    '''Subscribe to a channel
    '''

    preventRootUsage()
    uvloop.install()

    credentials = createCredentials(role, secret)
asyncio.get_event_loop().run_until_complete(
    subscribeClient(url, credentials, channel, position,
    stream_sql, MessageHandlerClass,
    {'verbose': verbose}))

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/subscribe.py
No license file was found, but licenses were detected in source scan.

""Small class to record data attached to a connection

FIXME: use this to enforce publish+subscribe permissions.

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"

import uuid

class ConnectionState:
    def __init__(self, appkey):
        self.appkey = appkey

        self.connection_id = uuid.uuid4().hex[:8]
        self.subscriptions = {}
        self.ok = True
        self.role = 'na'
        self.authenticated = False
        self.permissions = []

        self.nonce = None
        self.error = 'na'

        self.path = f'/tmp/log_{self.connection_id}'
        self.fileLogging = False

    def log(self, msg):
        log = f"[{self.connection_id}::{self.role}] {msg}"
        print(log)

        if self.fileLogging:
            with open(self.path, 'a') as f:
                f.write(log + 'a')

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/server/connection_state.py
No license file was found, but licenses were detected in source scan.

"Compute our version number

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import pkg_resources

from cobras.common.memoize import memoize

def getVersion():
    """Get our own version using pkg_resources""

    return pkg_resources.get_distribution("cobras").version

Found in path(s):
  * /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/version.py
No license file was found, but licenses were detected in source scan.

"""Capture memory usage

Copyright (c) 2018-2019 Machine Zone, Inc. All rights reserved.

import os

import psutil

from cobras.common.memoize import memoize

@memoize
def getContainerMemoryLimit():
    """In bytes"

    path = '/sys/fs/cgroup/memory/memory.limit_in_bytes'
    if not os.path.exists(path):
        return psutil.virtual_memory().total
    else:
        with open(path) as f:
            mem = f.read()
        return int(mem)

def getProcessUsedMemory():
    p = psutil.Process()
return p.memory_info().rss

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/memory_usage.py
No license file was found, but licenses were detected in source scan.

"Memoization decorator for functions taking one or more arguments.

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"

def memoize(f):
    """Memoization decorator for functions taking one or more arguments.""

class Memodict(dict):
    """Helper class derived from dict""

def __init__(self, f):
    """Constructor"

dict.__init__(self)
    self.f = f

def __call__(self, *args):
    """Call function"

        return self[func]

    def __missing__(self, key):
        """Missing method"

        ret = self[key] = self.f(*key)
        return ret

    return Memodict(f)

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/memoize.py
No license file was found, but licenses were detected in source scan.

"Generate secrets used for authentication

Copyright (c) 2018-2019 Machine Zone, Inc. All rights reserved.
"

import click
from cobras.common.apps_config import genSecret
from cobras.common.superuser import preventRootUsage

@click.command()
def secret():
    
    Generate secrets used for authentication

    $ cobra secret

    preventRootUsage()

    secret = genSecret()
    print(secret)

    Found in path(s):
    * /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/secret.py
    No license file was found, but licenses were detected in source scan.

    """djb2 hash (unused)

    Copyright (c) 2018-2019 Machine Zone, Inc. All rights reserved.
    """

def djb2Hash(data):
    """Return a 32 bits digest""

    hash = 5381
    for x in data:
        hash = ((hash << 5) + hash) + ord(x)
    return hash & 0xFFFFFFFF

    Found in path(s):
    * /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/djb2_hash.py
    No license file was found, but licenses were detected in source scan.

    """Bavarde main driver.
    Calls into sub commands like git.

    Copyright (c) 2019 Machine Zone, Inc. All rights reserved.
    """

    from pkgutil import walk_packages
import click
import coloredlogs
coloredlogs.install(level='WARNING')

@click.group()
@click.version_option()
def main():
    
    Bavarde is a chat app written on top of cobra

    for loader, module_name, is_pkg in walk_packages(__path__, __name__ + '.'):  
        module = __import__(module_name, globals(), locals(), ['__name__'])
        cmd = getattr(module, module_name.rsplit('.', 1)[-1])
        if isinstance(cmd, click.Command):
            main.add_command(cmd)

    Found in path(s):
    * /opt/cola/permits/1254827647_1644305122.39/0/cobras-1.2.1-tar-gz/cobras-
    1.2.1/cobras/bavarde/runner/__init__.py
    No license file was found, but licenses were detected in source scan.

"Module used for python packaging

Copyright (c) 2018-2019 Machine Zone, Inc. All rights reserved.

from __future__ import absolute_import

import platform
import os
import sys
from setuptools import find_packages, setup

if sys.version_info[:2] < (3, 7):
    print('Error: Cobra requires Python 3.7')
    sys.exit(1)

ROOT = os.path.realpath(os.path.join(os.path.dirname(__file__)))

with open(os.path.join(ROOT, 'DOCKER_VERSION')) as f:
    VERSION = f.read().strip()
dev_requires = [
    'flake8',
    'isort',
    'honcho',
    'mypy',
    'aiojobs==0.1.0',
    'twine'
]

tests_require = [
    'pytest',
    'pytest-cov',
    'pytest-xdist',
    'coverage'
]

with open('requirements.txt') as f:
    install_requires = f.read().splitlines()

setup(
    name='cobras',
    version=VERSION,
    author='Benjamin Sergeant',
    author_email='bsergean@gmail.com',
    url='https://github.com/machinezone/cobra',
    description='A realtime messaging server using WebSockets and Redis.',
    long_description=open(os.path.join(ROOT, 'README.md')).read(),
    long_description_content_type='text/markdown',
    packages=find_packages(exclude=['tests']),
    zip_safe=False,
    install_requires=install_requires,
    extras_require={
        'tests': tests_require,
        'dev': dev_requires
    },
    license='BSD 3',
    include_package_data=True,
    entry_points={
        'console_scripts': [
            'cobra = cobras.runner:main',
            'bavarde = cobras.bavarde.runner:main'
        ],
    },
    classifiers=[
        'Development Status :: 5 - Production/Stable',
        'Environment :: Web Environment',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: BSD License',
    ]
)
'Operating System :: OS Independent',
'Programming Language :: Python',
'Programming Language :: Python :: 3',
'Programming Language :: Python :: 3.7',
]
)

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1.2-1-tar-gz/cobras-1.2.1/setup.py
No license file was found, but licenses were detected in source scan.

"Publish to a channel

Copyright (c) 2018-2019 Machine Zone, Inc. All rights reserved.
"

import asyncio
import functools
import json
import click
import uvloop

import click
import uvloop

from cobras.client.client import client
from cobras.client.credentials import (createCredentials, getDefaultRoleForApp,
    getDefaultSecretForApp)
from cobras.common.apps_config import ADMIN_APPKEY
from cobras.common.superuser import preventRootUsage

DEFAULT_URL = f'ws://127.0.0.1:8765/v2?appkey={ADMIN_APPKEY}"

async def clientCallback(websocket, **args):
    method = args['method']
    params = args.get('params')
    params = json.loads(params)

    pdu = {
        "action": "rpc/admin",
        "id": 1,
        "body": {
            "method": method,
            "params": params
        }
    }

    await websocket.send(json.dumps(pdu))
response = await websocket.recv()
print(response)

async def start(url, credentials, verbose, method, params):
    callback = functools.partial(clientCallback,
        verbose=verbose,
        method=method,
        params=params)

    task = asyncio.create_task(
        client(url, credentials, callback))
    await task

@click.command()
@click.option('--url', default=DEFAULT_URL)
@click.option('--role', default=getDefaultRoleForApp('admin'))
@click.option('--secret', default=getDefaultSecretForApp('admin'))
@click.option('--verbose', is_flag=True)
@click.option('--method', default='close_all')
@click.option('--params', default='{}')
def admin(url, role, secret, verbose, method, params):
    """Admin

    \b
cobra admin --method toggle_file_logging --params '{"connection_id": "..."}''
    """

    preventRootUsage()
uvloop.install()

    credentials = createCredentials(role, secret)

    asyncio.get_event_loop().run_until_complete(start(url, credentials,
        verbose, method, params))

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/admin.py
No license file was found, but licenses were detected in source scan.

"""Class to used to throttle function calls, so that something isn't called too often

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"""

from datetime import datetime, timedelta
class Throttle(object):
    def __init__(self,
        seconds: int = 1,
        minutes: int = 0,
        hours: int = 0) -> None:
        self.throttle_period = timedelta(
            seconds=seconds, minutes=minutes, hours=hours
        )
        self.time_of_last_call = datetime.min

    def exceedRate(self) -> bool:
        now = datetime.now()
        time_since_last_call = now - self.time_of_last_call

        if time_since_last_call > self.throttle_period:
            self.time_of_last_call = now
            return False
        else:
            return True

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/throttle.py
No license file was found, but licenses were detected in source scan.

"""Bot

Copyright (c) 2019 Machine Zone, Inc. All rights reserved.
"""

import click

from cobras.bavarde.bot.bot import runBot

@click.command()
def bot():
    """Bot
    """

    runBot()

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/bavarde/runner/bot.py
No license file was found, but licenses were detected in source scan.

"""Health check."""
Subscribe to a channel, publish and make sure a message is received

```python
import sys
import urllib.request
import click
import uvloop

from cobras.client.credentials import (getDefaultRoleForApp,
    getDefaultSecretForApp)
from cobras.client.health_check import (getDefaultHealthCheckChannel,
    getDefaultHealthCheckHttpUrl,
    getDefaultHealthCheckUrl, healthCheck)
from cobras.common.superuser import preventRootUsage

@click.option('--url', default=getDefaultHealthCheckUrl())
@click.option('--http_url', default=getDefaultHealthCheckHttpUrl)
@click.option('--http', is_flag=True)
@click.option('--role', default=getDefaultRoleForApp('health'))
@click.option('--secret', default=getDefaultSecretForApp('health'))
@click.option('--channel', default=getDefaultHealthCheckChannel())
@click.command()
def health(url, http_url, http, role, secret, channel):
    
    """Health check

    cobra health --http
    cobra health --http --http_url 'http://127.0.0.1:8765/health/
    ""

    preventRootUsage()
uvloop.install()

    if http:
        print('url:', http_url)
        with urllib.request.urlopen(http_url) as response:
            html = response.read()
            print(html.decode('utf8'), end="")
    else:
        try:
            healthCheck(url, role, secret, channel)
        except ValueError as e:
            click.secho(f'System is unhealthy !!: {e}', fg='red')
```
sys.exit(1)

click.secho('System is healthy', fg='green')

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/health.py
No license file was found, but licenses were detected in source scan.

"Run the cobra frontend

Copyright (c) 2018-2019 Machine Zone, Inc. All rights reserved.

import os

import click
import sentry_sdk
import uvloop

from cobras.common.apps_config import getDefaultAppsConfigPath
from cobras.common.superuser import preventRootUsage
from cobras.server.app import AppRunner

@click.command()
@click.option('--host', envvar='COBRA_HOST', default='127.0.0.1',
              help='Binding host address. Set to 0.0.0.0 in prod environments')
@click.option('--port', envvar='COBRA_PORT', default='8765')
@click.option('--redis_urls', envvar='COBRA_REDIS_URLS',
              default='redis://localhost;redis://localhost')
@click.option('--redis_password', envvar='COBRA_REDIS_PASSWORD')
@click.option('--apps_config_path', envvar='COBRA_APPS_CONFIG',
              default=getDefaultAppsConfigPath())
@click.option('--verbose', envvar='COBRA_VERBOSE', is_flag=True)
@click.option('--prod', envvar='COBRA_PROD', is_flag=True)
@click.option('--plugins', envvar='COBRA_PLUGINS')
@click.option('--debug_memory', envvar='COBRA_DEBUG_MEMORY', is_flag=True)
@click.option('--sentry', envvar='COBRA_SENTRY', is_flag=True)
@click.option('--sentry_url', envvar='COBRA_SENTRY_URL')
@click.option('--no_stats', envvar='COBRA_NO_STATS', is_flag=True)
@click.option('--max_subscriptions', envvar='COBRA_MAX_SUBSCRIPTIONS',
              default=-1)
@click.option('--idle_timeout', envvar='COBRA_IDLE_TIMEOUT',
              default=5 * 60,
              help='idle connections kicked out after X seconds')

def run(host, port, redis_urls, redis_password,
        apps_config_path, verbose, debug_memory, plugins,
        sentry, sentry_url, prod, no_stats, max_subscriptions, idle_timeout):
Run the cobra server

```
cobra run --redis_urls 'redis://localhost:7001;redis://localhost:7002'
```

```
env COBRA_REDIS_PASSWORD=foobared cobra run
```

```
if prod:
    os.environ['COBRA_PROD'] = '1'
```

preventRootUsage()

```
uvloop.install()
```

```
if sentry and sentry_url:
    sentry_sdk.init(sentry_url)
```

```
print('runServer', locals())
runner = AppRunner(host, port, redis_urls,
                   redis_password, apps_config_path,
                   verbose, debug_memory, plugins,
                   not no_stats, max_subscriptions, idle_timeout)
runner.run()
```

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/run.py

### 1.818 fsnotify 1.4.7

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1.819 cyphar-filepath-securejoin 0.2.3
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1.820 jetty-servlet 9.4.44.v20210927
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* org.eclipse.jetty.orbit:javax.mail.glassfish

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

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

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Oracle OpenJDK

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* java.sun.security.ssl

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

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

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org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.821 jersey-media-sse 2.28

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

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1.822 libalgorithm-merge-perl 0.08-3

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# For testing:

sub main::diag {
    warn join('', @_, ''n'');
}

print join('', merge(
    #print Data::Dumper -> Dump(
    #    merge(
    # # ![qw(a b c d       h i j)], # ancestor
    # # ![qw(a b c d f h i j)], # left
    # # ![qw(a b c e g      )], # right
    [qw(0 1 2 3 4 7 9 b)],
    [qw(0 6       8 a b)],
    [qw(0 1 2 3 5 8 a b)],
    ##
    {CONFLICT => sub ($$) { (q{<}, @{$_[0]}, q{|}, @{$_[1]}, q{>}
            ) },
            },
    ), ''n'';
    #)}, ''n'';
    #print join('', @{
    #    [qw(0 1 @ < 3 | # > 6)]
    # })}, ''n'';

    1;
    __END__


1;

__END__

=head1 NAME

Algorithm::Merge - Three-way merge and diff

=head1 SYNOPSIS
use Algorithm::Merge qw(merge diff3 traverse_sequences3);

@merged = merge(\@ancestor, \@a, \@b, {
    CONFLICT =&gt; sub { }
});

@merged = merge(\@ancestor, \@a, \@b, {
    CONFLICT =&gt; sub { }
}, $key_generation_function);

$merged = merge(\@ancestor, \@a, \@b, {
    CONFLICT =&gt; sub { }
});

$merged = merge(\@ancestor, \@a, \@b, {
    CONFLICT =&gt; sub { }
}, $key_generation_function);

@diff   = diff3(\@ancestor, \@a, \@b);

@diff   = diff3(\@ancestor, \@a, \@b, $key_generation_function);

$diff   = diff3(\@ancestor, \@a, \@b);

$diff   = diff3(\@ancestor, \@a, \@b, $key_generation_function);

@trav   = traverse_sequences3(\@ancestor, \@a, \@b, {
    # callbacks
});

@trav   = traverse_sequences3(\@ancestor, \@a, \@b, {
    # callbacks
}, $key_generation_function);

$trav   = traverse_sequences3(\@ancestor, \@a, \@b, {
    # callbacks
});

$trav   = traverse_sequences3(\@ancestor, \@a, \@b, {
    # callbacks
}, $key_generation_function);

=head1 USAGE

This module complements L<Algorithm::Diff|Algorithm::Diff> by providing three-way merge and diff functions.
In this documentation, the first list to `diff3`, `merge`, and `traverse_sequences3` is called the `original` list. The second list is the `left` list. The third list is the `right` list.

The optional key generation arguments are the same as in `Algorithm::Diff`. See `Algorithm::Diff` for more information.

=head2 diff3

Given references to three lists of items, `diff3` performs a three-way difference.

This function returns an array of operations describing how the left and right lists differ from the original list. In scalar context, this function returns a reference to such an array.

Perhaps an example would be useful.

Given the following three lists,

original: a b c e f h i k
left: a b d e f g i j k
right: a b c d e h i j k

merge: a b d e g i j k

we have the following result from `diff3`:

```perl
[ 'u', 'a', 'a', 'a' ],
[ 'u', 'b', 'b', 'b' ],
[ 't', 'c', undef, 'c' ],
[ 'o', undef, 'd', 'd' ],
[ 'u', 'e', 'e', 'e' ],
[ 'r', 'f', 'f', undef ],
[ 'o', 'h', 'g', 'h' ],
[ 'u', 'i', 'i', 'i' ],
[ 'o', undef, 'j', 'j' ],
[ 'u', 'k', 'k', 'k' ]
```

The first element in each row is the array with the difference:

- c - conflict (no two are the same)
- l - left is different
- o - original is different
- r - right is different
- u - unchanged
The next three elements are the lists from the original, left, and right arrays respectively that the row refers to (in the synopsis, these are C<@ancestor>, C<@a>, and C<@b>, respectively).

=head2 merge

Given references to three lists of items, C<merge> performs a three-way merge. The C<merge> function uses the C<diff3> function to do most of the work.

The only callback currently used is C<CONFLICT> which should be a reference to a subroutine that accepts two array references. The first array reference is to a list of elements from the left list. The second array reference is to a list of elements from the right list. This callback should return a list of elements to place in the merged list in place of the conflict.

The default C<CONFLICT> callback returns the following:

q{<!-- ------ START CONFLICT ------ -->},
(@left),
q{<!-- ---------------------------- -->},
q{<!-- ------  END  CONFLICT ------ -->},

=head2 traverse_sequences3

This is the workhorse function that goes through the three sequences and calls the callback functions.

The following callbacks are supported.

=over 4

=item NO_CHANGE

This is called if all three sequences have the same element at the current position. The arguments are the current positions within each sequence, the first argument being the current position within the first sequence.

=item A_DIFF

This is called if the first sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.
If one argument, then only the element at the given position from the first sequence is not in either of the other two sequences.

If two arguments, then there is no element in the first sequence that corresponds to the elements at the given positions in the second and third sequences.

If three arguments, then the element at the given position in the first sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item B\_DIFF

This is called if the second sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the second sequence is not in either of the other two sequences.

If two arguments, then there is no element in the second sequence that corresponds to the elements at the given positions in the first and third sequences.

If three arguments, then the element at the given position in the second sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item C\_DIFF

This is called if the third sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the third sequence is not in either of the other two sequences.

If two arguments, then there is no element in the third sequence that corresponds to the elements at the given positions in the first and second sequences.

If three arguments, then the element at the given position in the third sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item CONFLICT

This is called if all three sequences have different elements at the
current position. The three arguments are the current positions within each sequence.

=head1 BUGS

Most assuredly there are bugs. If a pattern similar to the above example does not work, send it to <jsmith@cpan.org> or report it on <http://rt.cpan.org/>, the CPAN bug tracker.

L<Algorithm::Diff|Algorithm::Diff>`s implementation of C<traverse_sequences> may not be symmetric with respect to the input sequences if the second and third sequence are of different lengths. Because of this, C<traverse_sequences3> will calculate the diffs of the second and third sequences as passed and swapped. If the differences are not the same, it will issue an `Algorithm::Diff::diff is not symmetric for second and third sequences...` warning. It will try to handle this, but there may be some cases where it can't.

=head1 SEE ALSO

L<Algorithm::Diff>.

=head1 AUTHOR

James G. Smith, <jsmith@cpan.org>

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

NAME
Algorithm::Merge - Three-way merge and diff

SYNOPSIS
use Algorithm::Merge qw(merge diff3 traverse_sequences3);

    @merged = merge(
        \@ancestor, \@a, \@b, {
            CONFLICT => sub { }
        }
@merged = $merged = merge(\@ancestor, \@a, \@b, {
    CONFLICT => sub { }, $key_generation_function);

@merged = $merged = merge(\@ancestor, \@a, \@b, {
    CONFLICT => sub { }, $key_generation_function);

@merged = $merged = merge(\@ancestor, \@a, \@b, {
    CONFLICT => sub { }, $key_generation_function);

@diff = diff3(\@ancestor, \@a, \@b);

@diff = diff3(\@ancestor, \@a, \@b, $key_generation_function);

$diff = diff3(\@ancestor, \@a, \@b);

$diff = diff3(\@ancestor, \@a, \@b, $key_generation_function);

@trav = traverse_sequences3(\@ancestor, \@a, \@b, {
    # callbacks
});

@trav = traverse_sequences3(\@ancestor, \@a, \@b, {
    # callbacks
}, $key_generation_function);

$trav = traverse_sequences3(\@ancestor, \@a, \@b, {
    # callbacks
});

$trav = traverse_sequences3(\@ancestor, \@a, \@b, {
    # callbacks
}, $key_generation_function);

USAGE
This module complements Algorithm::Diff by providing three-way merge and
diff functions.

In this documentation, the first list to "diff3", "merge", and
"traverse_sequences3" is called the `original' list. The second list is
the `left' list. The third list is the `right' list.

The optional key generation arguments are the same as in
Algorithm::Diff. See Algorithm::Diff for more information.
diff3
Given references to three lists of items, "diff3" performs a three-way difference.

This function returns an array of operations describing how the left and right lists differ from the original list. In scalar context, this function returns a reference to such an array.

Perhaps an example would be useful.

Given the following three lists,

```
original: a b c e f h i k
left: a b d e f g i j k
right: a b c d e h i j k
```

merge: a b d e g i j k

we have the following result from diff3:

```
[ 'u', 'a', 'a', 'a' ],
[ 'u', 'b', 'b', 'b' ],
[ 'l', 'c', undef, 'c' ],
[ 'o', undef, 'd', 'd' ],
[ 'u', 'e', 'e', 'e' ],
[ 'r', 'f', 'f', undef ],
[ 'o', 'h', 'g', 'h' ],
[ 'u', 'i', 'i', 'i' ],
[ 'o', undef, 'j', 'j' ],
[ 'u', 'k', 'k', 'k' ]
```

The first element in each row is the array with the difference:

```
c - conflict (no two are the same)
l - left is different
o - original is different
r - right is different
u - unchanged
```

The next three elements are the lists from the original, left, and right arrays respectively that the row refers to (in the synopsis, these are @ancestor, @a, and @b, respectively).

merge
Given references to three lists of items, "merge" performs a three-way merge. The "merge" function uses the "diff3" function to do most of the work.
The only callback currently used is "CONFLICT" which should be a reference to a subroutine that accepts two array references. The first array reference is to a list of elements from the left list. The second array reference is to a list of elements from the right list. This callback should return a list of elements to place in the merged list in place of the conflict.

The default "CONFLICT" callback returns the following:

```
q{<!-- ------ START CONFLICT ------ -->},
(@left),
q{<!-- ---------------------------- -->},
(@right),
q{<!-- ------  END  CONFLICT ------ -->}.
```

traverse_sequences3
This is the workhorse function that goes through the three sequences and calls the callback functions.

The following callbacks are supported.

NO_CHANGE
This is called if all three sequences have the same element at the current position. The arguments are the current positions within each sequence, the first argument being the current position within the first sequence.

A_DIFF
This is called if the first sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the first sequence is not in either of the other two sequences.

If two arguments, then there is no element in the first sequence that corresponds to the elements at the given positions in the second and third sequences.

If three arguments, then the element at the given position in the first sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

B_DIFF
This is called if the second sequence is different than the other two sequences at the current position. This callback will be called
with one, two, or three arguments.

If one argument, then only the element at the given position from the second sequence is not in either of the other two sequences.

If two arguments, then there is no element in the second sequence that corresponds to the elements at the given positions in the first and third sequences.

If three arguments, then the element at the given position in the second sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

C_DIFF
This is called if the third sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the third sequence is not in either of the other two sequences.

If two arguments, then there is no element in the third sequence that corresponds to the elements at the given positions in the first and second sequences.

If three arguments, then the element at the given position in the third sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

CONFLICT
This is called if all three sequences have different elements at the current position. The three arguments are the current positions within each sequence.

BUGS
Most assuredly there are bugs. If a pattern similar to the above example does not work, send it to <jsmith@cpan.org> or report it on <http://rt.cpan.org/> , the CPAN bug tracker.

Algorithm::Diff's implementation of "traverse_sequences" may not be symmetric with respect to the input sequences if the second and third sequence are of different lengths. Because of this, "traverse_sequences3" will calculate the diffs of the second and third sequences as passed and swapped. If the differences are not the same, it will issue an 'Algorithm::Diff::diff is not symmetric for second and third sequences...' warning. It will try to handle this, but there may
be some cases where it can’t.

SEE ALSO
Algorithm::Diff.

AUTHOR
James G. Smith, <jsmith@cpan.org>

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Gocheck - A rich testing framework for Go

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Eclipse

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

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

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

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Oracle

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

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

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

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

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OW2
The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

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

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Apache

The following artifacts are ASL2 licensed.

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

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

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

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

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Mortbay

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

org.eclipse.jetty.toolchain:jetty-schemas

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.837 selinux 2.7-2build2

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man/bitstring.3bsd
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src/getbsize.c
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cmd/krb5/iprop/iprop_hdr.h
cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd.rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_head.c
lib/krb5/kdb/kdb_hdr.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_inquire.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
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lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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Found in path(s):
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
  jar/javax/xml/bind/JAXBPermission.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
  jar/javax/xml/bind/WhiteSpaceProcessor.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
  jar/javax/xml/bind/DatatypeConverterImpl.java

1.873 snappy-java 1.1.7
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1.874 jetty-setuid-java 1.0.4

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* /opt/cola/permits/1257333122_1642801905.86/0/jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/SetUIDListener.java
* /opt/cola/permits/1257333122_1642801905.86/0/jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/SetUIDServer.java
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1.875 urlesc 0.0.0-20170810143723-de5bf2ad4578

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1.884 masterminds-semver 3.1.1

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1.885 python-requests 2.18.4 2ubuntu0.1

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1.901 python-certifi 2021.05.30

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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:
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.
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@(#) SRCFile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.902 go-bgp 0.0.0-20211116133055-8d7916080293

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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
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@(#) SRCSfile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.910 python 3.7.8
1.910.1 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, 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 http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.
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(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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1.911 kube-openapi 0.0.0-20211109043538-20434351676c

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func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}`
    const licenseYAML = "name: the name\nurl: the url"

    assertSerializeJSON(t, license, licenseJSON)
    assertParsesJSON(t, licenseJSON, license)
}

package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

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1.914 kr-fs 0.1.0

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*/

package java.security;

import java.io.Serializable;

/**
 * Legacy security code; do not use.
 */
public abstract class Permission implements Guard, Serializable {
    public Permission(String name) { }

    public final String getName() { return null; }
}
public void checkGuard(Object obj) throws SecurityException { }

public PermissionCollection newPermissionCollection() {
    return new AllPermissionCollection();
}

public abstract String getActions();

public abstract boolean implies(Permission permission);

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*
* created on: 2005Jan16
* created by: Markus W. Scherer
* 
* Low-level Unicode bidi/shaping properties access.
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<code>Replaceable</code> is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by char32At(). One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

An implicit aspect of the <code>Replaceable</code> API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the <b>bold</b> font" has range (4, 8) replaced with "strong", then it becomes "the <b>strong</b> font".

<code>Replaceable</code> specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset start..limit-1. That is, the start offset is inclusive, and the limit offset is exclusive.

<code>Replaceable</code> also includes API to access characters in the string: <code>length()</code>, <code>charAt()</code>, <code>char32At()</code>, and <code>extractBetween()</code>.

For a subclass to support metadata, typical behavior of <code>replace()</code> is the following:

<ul>
  <li>Set the metadata of the new text to the metadata of the first character replaced</li>
  <li>If no characters are replaced, use the metadata of the previous character</li>
  <li>If there is no previous character (i.e. start == 0), use the following character</li>
  <li>If there is no following character (i.e. the replaceable was empty), use default metadata</li>
  <li>If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata</li>
</ul>

If this is not the behavior, the subclass should document any differences.
ReplaceableString is an adapter class that implements the Replaceable API around an ordinary StringBuffer.

Note: This class does not support attributes and is not intended for general use. Most clients will need to implement { @link Replaceable } in their text representation class.

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JUnit

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its purpose remains meaningful.

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Found in path(s):
* /opt/cola/permits/1345518484_1655361689.29472880/tomcat-jaspic-api-9-0-63-sources-
jar/javax/security/auth/message/callback/PasswordValidationCallback.java
* /opt/cola/permits/1345518484_1655361689.29472880/tomcat-jaspic-api-9-0-63-sources-
jar/javax/security/auth/message/ClientAuth.java
* /opt/cola/permits/1345518484_1655361689.29472880/tomcat-jaspic-api-9-0-63-sources-
jar/javax/security/auth/message/MessagePolicy.java
* /opt/cola/permits/1345518484_1655361689.29472880/tomcat-jaspic-api-9-0-63-sources-
jar/javax/security/auth/message/config/ServerAuthConfig.java
* /opt/cola/permits/1345518484_1655361689.29472880/tomcat-jaspic-api-9-0-63-sources-
jar/javax/security/auth/message/callback/SecretKeyCallback.java
* /opt/cola/permits/1345518484_1655361689.29472880/tomcat-jaspic-api-9-0-63-sources-
jar/javax/security/auth/message/config/ServerAuthContext.java
* /opt/cola/permits/1345518484_1655361689.29472880/tomcat-jaspic-api-9-0-63-sources-
jar/javax/security/auth/message/config/RegistrationListener.java
* /opt/cola/permits/1345518484_1655361689.29472880/tomcat-jaspic-api-9-0-63-sources-
jar/javax/security/auth/message/module/ClientAuthModule.java
* /opt/cola/permits/1345518484_1655361689.29472880/tomcat-jaspic-api-9-0-63-sources-
jar/javax/security/auth/message/config/AuthConfig.java
* /opt/cola/permits/1345518484_1655361689.29472880/tomcat-jaspic-api-9-0-63-sources-
jar/javax/security/auth/message/AuthStatus.java
* /opt/cola/permits/1345518484_1655361689.29472880/tomcat-jaspic-api-9-0-63-sources-
jar/javax/security/auth/message/module/ServerAuthModule.java
* /opt/cola/permits/1345518484_1655361689.29472880/tomcat-jaspic-api-9-0-63-sources-
jar/javax/security/auth/message/callback/PrivateKeyCallback.java
* /opt/cola/permits/1345518484_1655361689.29472880/tomcat-jaspic-api-9-0-63-sources-
jar/javax/security/auth/message/config/ClientAuthContext.java
* /opt/cola/permits/1345518484_1655361689.29472880/tomcat-jaspic-api-9-0-63-sources-
jar/javax/security/auth/message/config/AuthConfigProvider.java
* /opt/cola/permits/1345518484_1655361689.29472880/tomcat-jaspic-api-9-0-63-sources-
jar/javax/security/auth/message/callback/GroupPrincipalCallback.java
* /opt/cola/permits/1345518484_1655361689.29472880/tomcat-jaspic-api-9-0-63-sources-
jar/javax/security/auth/message/config/ClientAuthContext.java
* /opt/cola/permits/1345518484_1655361689.29472880/tomcat-jaspic-api-9-0-63-sources-
jar/javax/security/auth/message/config/AuthConfigFactory.java
* /opt/cola/permits/1345518484_1655361689.29472880/tomcat-jaspic-api-9-0-63-sources-
jar/javax/security/auth/message/callback/TrustStoreCallback.java
* /opt/cola/permits/1345518484_1655361689.2947288/0/tomcat-jaspic-api-9-0-63-sources-
jar/javax/security/auth/message/callback/CallerPrincipalCallback.java
* /opt/cola/permits/1345518484_1655361689.2947288/0/tomcat-jaspic-api-9-0-63-sources-
jar/javax/security/auth/message/AuthException.java
* /opt/cola/permits/1345518484_1655361689.2947288/0/tomcat-jaspic-api-9-0-63-sources-
jar/javax/security/auth/message/callback/CertStoreCallback.java

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1.926 go-connections 0.4.0
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1.927 jackson-databind 2.10.5.1

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Eclipse

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

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

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

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Oracle

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

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

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

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

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html
org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

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

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

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

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by
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1.935 tomcat-api 9.0.63
1.935.1 Available under license:

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  jar/org/springframework/beans/InvalidPropertyException.java
* /opt/cola/permits/1135863686_1613617928.48/0/spring-beans-3-2-17-release-sources-2-
  jar/org/springframework/beans/factory/config/BeanPostProcessor.java
* /opt/cola/permits/1135863686_1613617928.48/0/spring-beans-3-2-17-release-sources-2-
  jar/org/springframework/beans/factory/wiring/BeanWiringInfo.java
* /opt/cola/permits/1135863686_1613617928.48/0/spring-beans-3-2-17-release-sources-2-
  jar/org/springframework/beans/propertyeditors/CustomCollectionEditor.java
* /opt/cola/permits/1135863686_1613617928.48/0/spring-beans-3-2-17-release-sources-2-
  jar/org/springframework/beans/factory/config/RuntimeBeanNameReference.java
* /opt/cola/permits/1135863686_1613617928.48/0/spring-beans-3-2-17-release-sources-2-
  jar/org/springframework/beans/factory/parsing/BeanDefinitionParsingException.java
* /opt/cola/permits/1135863686_1613617928.48/0/spring-beans-3-2-17-release-sources-2-
  jar/org/springframework/beans/PropertyValue.java
* /opt/cola/permits/1135863686_1613617928.48/0/spring-beans-3-2-17-release-sources-2-
  jar/org/springframework/beans/factory/config/BeanPostProcessor.java
* /opt/cola/permits/1135863686_1613617928.48/0/spring-beans-3-2-17-release-sources-2-
  jar/org/springframework/beans/factory/wiring/BeanWiringInfo.java
* /opt/cola/permits/1135863686_1613617928.48/0/spring-beans-3-2-17-release-sources-2-
  jar/org/springframework/beans/propertyeditors/CustomCollectionEditor.java
* /opt/cola/permits/1135863686_1613617928.48/0/spring-beans-3-2-17-release-sources-2-
  jar/org/springframework/beans/factory/config/RuntimeBeanNameReference.java
* /opt/cola/permits/1135863686_1613617928.48/0/spring-beans-3-2-17-release-sources-2-
  jar/org/springframework/beans/factory/parsing/BeanDefinitionParsingException.java
* /opt/cola/permits/1135863686_1613617928.48/0/spring-beans-3-2-17-release-sources-2-
  jar/org/springframework/beans/PropertyValue.java
* /opt/cola/permits/1135863686_1613617928.48/0/spring-beans-3-2-17-release-sources-2-
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 */

Found in path(s):
 * /opt/cola/permits/1135863686_1613617928.48/0/spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/support/BeanDefinitionReader.java
 * /opt/cola/permits/1135863686_1613617928.48/0/spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/config/ConstructorArgumentValues.java
 * /opt/cola/permits/1135863686_1613617928.48/0/spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/config/TypedStringValue.java
 * /opt/cola/permits/1135863686_1613617928.48/0/spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/support/TypeConverter.java
 * /opt/cola/permits/1135863686_1613617928.48/0/spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/config/PlaceholderConfigurerSupport.java
 * /opt/cola/permits/1135863686_1613617928.48/0/spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/support/ChildBeanDefinition.java
 * /opt/cola/permits/1135863686_1613617928.48/0/spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/support/PropertiesBeanDefinitionReader.java
 * /opt/cola/permits/1135863686_1613617928.48/0/spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/annotation/AnnotatedGenericBeanDefinition.java
 * /opt/cola/permits/1135863686_1613617928.48/0/spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/support/ResourceEditorRegistrar.java
 * /opt/cola/permits/1135863686_1613617928.48/0/spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/config/ServiceLocatorFactoryBean.java

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1.939 prometheus-procfs 0.0.11

1.939.1 Available under license:

procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl, $(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<

%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<

%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.c) $< \n| sed 's/($*
\n\/o\n/:/g' > $@; \n[ -s $@ ] || rm -f $@"

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.cc) $< \n| sed 's/($*
\n\/o\n/:/g' > $@; \n[ -s $@ ] || rm -f $@"

## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@

%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s {*F}.$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu
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Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Pierre
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Frysinger, Mike
G., Daniel Richard
The following people have worked to translate sudo into other languages:

Blittermann, Mario
Bogusz, Jakub
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Ferreira, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frédric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
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Koir, Klemen
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Krznar, Tomislav
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# Contributions to the urllib3 project

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## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers
* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRiBZDhBFXB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
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* georgemarshall <http://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
  * Stream method for Response objects.
* Return native strings in header values.
* Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)
* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
* Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
* Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
* Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
* Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
* Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
* Bugfix to pyopenssl vendoring

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]

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- Copy files to and from Containers in a cluster

# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.
## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `path`
- Remote file format is `pod-name:path`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `path`
- Remote file format is `pod-name:path`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c container-name`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```
## Namespaces

Set the Pod namespace by prefixing the Pod name with `<namespace>/`.

- `<pod-namespace>/<pod-name>:<path>`

{% sample lang="yaml" %}
```bash
>>> kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```{% endmethod %}

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* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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

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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, 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 http://www.opensource.org for
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1.971 jetty-security 9.4.39.v20210325

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

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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

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

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Oracle OpenJDK

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* java.sun.security.ssl

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

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

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

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.972 x-term 0.0.0-20210220032956-6a3ed077a48d

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1.973 x-crypto 0.0.0-20211117183948-ae814b36b871

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1.981 mime-support 3.60ubuntu1

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* /opt/cola/permits/1168236991_1621962039.06/0/netty-resolver-4-1-63-final-jar/META-INF/maven/io.netty/netty-resolver/pom.xml

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Manifest-Version: 1.0
Implementation-Title: Netty/Resolver
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name: io.netty.resolver
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.resolver
Implementation-Version: 4.1.63.Final
Built-By: root
Bnd-LastModified: 1617274739124
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: io.netty'util;version="[4.1,5)",io.netty'util.concurrency;version="[4.1,5)",io.netty'util.internal;version="[4.1,5)",io.netty'util.logging;version="[4.1,5)",sun.nio.ch;resolution=optional,eclipse.jetty.npn;version="[1,2)";resolution=optional,eclipse.jetty.alpn;version="[1,2)";resolution=optional
Require-Capability: osgi.ee;filter:="(&osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.resolver;uses:="io.netty.util.concurrent";version="4.1.63"
Bundle-Name: Netty/Resolver
Bundle-Version: 4.1.63.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_272
Implementation-URL: https://netty.io/netty-resolver/

Found in path(s):
* /opt/cola/permits/1168236991_1621962039.06/0/netty-resolver-4-1-63-final-jar/META-INF/MANIFEST.MF

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## Source Code

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* https://github.com/eclipse-ee4j/jaxrs-api

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### 1.990 jackson 2.11.1

### 1.990.1 Available under license:

# Jackson JSON processor

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

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

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1.997 grpc-gateway 1.9.5

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There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):
Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port). These copyrights are discussed in more detail below.

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Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding _in an apparatus that performs LZW encoding_, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially
similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed. The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

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Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

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Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

1.1015 jetty-security 9.4.44.v20210927

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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

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

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Oracle OpenJDK
If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

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

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OW2

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

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Apache

The following artifacts are ASL2 licensed.

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

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MortBay

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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- 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
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- web-common_4_0.xsd
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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
Either create a single parameter accepting the Tuple2,
or consider a pattern matching anonymous function: ```
val x: ((Int, Int) => Int) = (((a, b)) => a)
```
Note: Tuples cannot be directly destructured in method or function parameters.
   Either create a single parameter accepting the Tuple2,
   or consider a pattern matching anonymous function: `case (param1, param2) => ...`
val y: ((Int, Int, Int) => Int) = (((a, !)) => a)
   ^
not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
   Either create a single parameter accepting the Tuple3,
   or consider a pattern matching anonymous function: `case (param1, ..., param3) => ...`
val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
   ^
3 errors
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*Bug 420894 - ClassCastException in DefaultBindingResolver.resolveType(Type)
*bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*Bug 434600 - Incorrect null analysis error reporting on type parameters
*Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect “throws E”
*Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
*Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param

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*Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
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    Bug 407191 - [1.8] Binary access support for type annotations

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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
  jar/org/eclipse/jdt/internal/compiler/classfmt/FieldInfoWithAnnotation.java
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  * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly

Found in path(s):
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/codegen/MultiCatchExceptionLabel.java
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathSourceJar.java
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*bug 349326 - [1.7] new warning for missing try-with-resources
*bug 370930 - NonNull annotation not considered for enhanced for loops
*bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*bug 393719 - [compiler] inconsistent warnings on iteration variables
*Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*Bug 415790 - [compiler][resource] Incorrect potential resource leak warning in for loop with close in try/catch
  * Jesper S Moller - Contribution for
*bug 401853 - Eclipse Java compiler creates invalid bytecode (java.lang.VerifyError)
  * bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
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*bug 349326 - [1.7] new warning for missing try-with-resources
*bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*bug 383368 - [compiler][null] syntactic null analysis for field references
*bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*Bug 440282 - [resource] Resource leak detection false negative with empty finally block
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/ast/Block.java
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*   Stephan Herrmann - contributions for
*   bug 336428 - [compiler][null] bogus warning "redundant null check" in condition of do { } while() loop
*bug 186342 - [compiler][null] Using annotations for null checking
*bug 36519 - editorial cleanup after bug 186342 and bug 365387
*bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*bug 385626 - @NonNull fails across loop boundaries
*bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*bug 376263 - Bogus "Potential null pointer access" warning
*bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*bug 406384 - Internal error with I20130413
*Bug 415413 - [compiler][null] NullPointerException in Null Analysis caused by interaction of LoopingFlowContext and FinallyFlowContext
*Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*Bug 455557 - [jdt] NPE LoopingFlowContext.recordNullReference
*Bug 455723 - Nonnull argument not correctly inferred in loop
*Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
*Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
*   Jesper S Moller - contributions for
*bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
*******************************************************************************

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  * Nick Teryaev - fix for bug (https://bugs.eclipse.org/bugs/show_bug.cgi?id=40752)
  * Stephan Herrmann - Contributions for
  *bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE
  *bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
  *bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
  *bug 383368 - [compiler][null] syntactic null analysis for field references
  *bug 401017 - [compiler][null] casted reference to @Nullable field lacks a warning
  *bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
  *Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
  *Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
  *Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
  *Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
  *Bug 430150 - [1.8][null] stricter checking against type variables
  *Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
  *Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
  * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
  * Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped

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*bug 349326 - [1.7] new warning for missing try-with-resources
*bug 374605 - Unreasonable warning for enum-based switch statements
*bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
*bug 382354 - [1.8][compiler] Compiler silent on conflicting modifier
*bug 401030 - [1.8][null] Null analysis support for lambda methods.
*Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Jesper S Moller - Contributions for
*bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*******************************************************************************/

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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
jar/org/eclipse/jdt/internal/compiler/lookup/MethodScope.java
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*Bug 424710 - [1.8][compiler] CCE in SimpleNameReference.localVariableBinding
*Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
*Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
*Bug 426589 - [1.8][compiler] Compiler error with generic method/constructor invocation as vargs argument
*Bug 426590 - [1.8][compiler] Compiler error with ternary operator
*Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
*Bug 426998 - [1.8][compiler] method(java.lang.Class, java.lang.String) not applicable for the arguments (java.lang.Class, java.lang.String)
*Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method
*Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*Bug 427728 - [1.8] Type Inference rejects calls requiring boxing/unboxing
*Bug 427218 - [1.8][compiler] Verify error varargs + inference
*Bug 426836 - [1.8] special handling for return type in references to method getClass()?
*Bug 427628 - [1.8] regression : The method * is ambiguous for the type *
*Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type Bindings
*Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
*Bug 428811 - [1.8][compiler] Type witness unnecessarily required
*Bug 429424 - [1.8][inference] Problem inferring type of method's parameter
*Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
*Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
*Bug 452194 - Code no longer compiles in 4.4.1, but with confusing error
*Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*Bug 456236 - [1.8][null] Cannot infer type when constructor argument is annotated with @Nullable
*Bug 437072 - [compiler][null] Null analysis emits possibly incorrect warning for new int[][] despite @NonNullByDefault
*Bug 462083 - [1.8][inference] Java 8 generic return type mismatch with interface involving type parameter.
  * Jesper S Moller - Contributions for
*Bug 378674 - "The method can be declared as static" is wrong
  * Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
  * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
    * Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
    * Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
      * Bug 559618 - No compiler warning for import from same package
      * Bug 560630 - No warning on unused import on class from same package
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* *bug 349326 - [1.7] new warning for missing try-with-resources
* *bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* *Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* *Bug 467032 - TYPE_USE Null Annotations: IllegalStateException with annotated arrays of Enum when accessed via BinaryTypeBinding
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* *Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
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*bug 392384 - [1.8]compiler][null] Restore nullness info from type annotations in class files
*Bug 416174 - [1.8][compiler][null] Bogus name clash error with null annotations
*Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*Bug 425783 - An internal error occurred during: "Requesting Java AST from selection".
 java.lang.StackOverflowError
*Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
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* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
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  * bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
  * bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
  * bug 349326 - [1.7] new warning for missing try-with-resources
  * bug 186342 - [compiler][null] Using annotations for null checking
  * bug 358903 - Filter practically unimportant resource leak warnings
  * bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
  * bug 370639 - [compiler][resource] restore the default for resource leak warnings
  * bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
  * bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
  * bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
  * Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
  * Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
  * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
  * Bug 424727 - [compiler][null] NullPointerException in nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)
  * Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
  * Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
  * Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
  * Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
  * Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
  * Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
  * Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
  * Bug 424930 - [1.8][compiler] Regression: "Cannot infer type arguments" error from compiler.
  * Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
  * Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
  * Bug 428352 - [1.8][compiler] Resolution errors don't always surface
  * Bug 429203 - [1.8][compiler] NPE in AllocationExpression.binding
  * Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
  * Bug 434297 - [1.8] NPE in LambdaExpression.analyseCode with lambda expression nested in a conditional expression
  * Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
  * Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
  * Jesper S Moller <jesper@selskabet.org> - Contributions for
  * bug 378674 - "The method can be declared as static" is wrong
  * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
    * Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
  * Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method
  * Till Brychcy - Contributions for
* bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File
* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/parser/AbstractCommentParser.java
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* * Jesper Steen Moller - Contributions for:
* * Bug 412149: [1.8][compiler] Emit repeated annotations into the designated container
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* Bug 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)
* Bug 388630 - @NonNull diagnostics at line 0
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug 424727 - [compiler][null] NullPointerException in
nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)

* Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build but not on incremental build?
* Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it extends the outer class
* Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
* Bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource
* Bug 546084 - Using Junit 5's MethodSource leads to ClassCastException

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* bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code
* Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
* Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas

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*Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
  Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
* Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code generator
* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
* Bug 449467 - [1.8][compiler] Invalid lambda deserialization with anonymous class
* Olivier Tardieu (tardieu@us.ibm.com) - Contributions for
  Bug 442418 - $deserializeLambda$ off-by-one error when deserializing the captured arguments of a lambda that also capture this

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* Carmi Grushko - Bug 465048 - Binding is null for class literals in synchronized blocks

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* bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 358903 - Filter practically unimportant resource leak warnings
* bug 400421 - [compiler] Null analysis does not take @com.google.inject.Inject into account
* bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
* Jesper S Moller <jesper@selskabet.org> - Contributions for
*Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
* Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
* bug 386692 - Missing "unused" warning on "autowired" fields
* Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
* bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource
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*bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*Bug 417758 - [1.8][null] Null safety compromise during array creation.
*Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
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* Jesper S Moller - Contributions for
* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
* Frits Jalvingh - contributions for bug 533830.
* Red Hat Inc. - add module-info Javadoc support
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 * bug 367203 - [compiler][null] detect assigning null to nonnull argument
 * bug 365519 - editorial cleanup after bug 186342 and bug 365387
 * bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
 * bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
 * bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
 * bug 388281 - [compiler][null] inheritance of null annotations as an option
 * bug 401030 - [1.8][null] Null analysis support for lambda methods.
 * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
 * Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
 * Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument annotations
 * Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
 * Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
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*Bug 440687 - [compiler][batch][null] improve command line option for external annotations
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*bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first field
*Bug 458396 - NPE in CodeStream.invoke()
  * Jesper S Moller - Contributions for
*bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*bug 331649 - [compiler][null] consider null annotations for fields
*bug 383368 - [compiler][null] syntactic null analysis for field references
*bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
  * Jesper S Moller <jesper@selskabet.org> - Contributions for
*bug 378674 - "The method can be declared as static" is wrong

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*bug 186342 - [compiler][null] Using annotations for null checking
*bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
  jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedMethodBinding.java

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  * bug 343713 - [compiler] bogus line number in constructor of inner class in 1.5 compliance
  * bug 349326 - [1.7] new warning for missing try-with-resources
*bug 186342 - [compiler][null] Using annotations for null checking
*bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor
*bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*bug 383690 - [compiler] location of error re uninitialized final field should be aligned
*bug 331649 - [compiler][null] consider null annotations for fields
*bug 383368 - [compiler][null] syntactic null analysis for field references
*bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
*Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
  * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
  * Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code generator
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*   *bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   *bug 292478 - Report potentially null across variable assignment
*   *bug 335093 - [compiler][null] minimal hook for future null annotation support
*   *bug 349326 - [1.7] new warning for missing try-with-resources
*   *bug 186342 - [compiler][null] Using annotations for null checking
*   *bug 358903 - Filter practically unimportant resource leak warnings
*   *bug 370639 - [compiler][resource] restore the default for resource leak warnings
*   *bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*   *bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*   *bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*   *bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   *bug 383368 - [compiler][null] syntactic null analysis for field references
*   *bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*   *Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 430150 - [1.8][null] stricter checking against type variables
*Bug 453483 - [compiler][null][loop] Improve null analysis for loops
* Jesper S Moller - Contributions for
*Bug 378674 - "The method can be declared as static" is wrong
*Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*Bug 529556 - [18.3] Add content assist support for ‘var’ as a type
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*Bug 426616 - [1.8][compiler] Type Annotations, multiple problems

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

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/* *bug 383368 - [compiler][null] syntactic null analysis for field references */
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/* *bug 349326 - [1.7] new warning for missing try-with-resources */
/* *bug 186342 - [compiler][null] Using annotations for null checking */
/* *bug 365983 - [compiler][null] AIOOB with null annotation analysis and varargs */
/* *bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK */
/* *bug 370930 - NonNull annotation not considered for enhanced for loops */
/* *bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations */
/* *bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types */
/* *bug 331649 - [compiler][null] consider null annotations for fields */

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*bug 383368 - [compiler][null] syntactic null analysis for field references
*Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*Bug 417758 - [1.8][null] Null safety compromise during array creation.
*Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*Bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions
*Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
*Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*Bug 455723 - Nonnull argument not correctly inferred in loop
* Andy Clement - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
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* tyeung@bea.com - initial API and implementation
* IBM Corporation - fix for bug 342757
* Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2.jar/org/eclipse/jdt/internal/compiler/classfmt/MethodInfoWithParameterAnnotations.java
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* Bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*******************************************************************************
*Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it extends the outer class
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*bug 186342 - [compiler][null] Using annotations for null checking
*bug 365519 - editorial cleanup after bug 186342 and bug 365387
*bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*bug 368589 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*bug 385626 - @NonNull fails across loop boundaries
*bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
**********/
*Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*Bug 455723 - Nonnull argument not correctly inferred in loop
* Jesper S Moller - Contributions for
*bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops

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*Bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files

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  bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment
*bug 186342 - [compiler][null] Using annotations for null checking
*bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations
Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings
Bug 416190 - [1.8][null] detect incompatible overrides due to null type annotations
Bug 424624 - [1.8][null] if a static-object with annotation @NonNull is used, a warning is shown
Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)
Bug 457079 - Regression: type inference
Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
Bug 455180 - IllegalStateException in AnnotatableTypeSystem.getRawType
Bug 470467 - [null] Nullness of special Enum methods not detected from .class file

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* bug 282152 : [1.5][compiler] Generics code rejected by Eclipse but accepted by javac
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* bug 359362 : FUP of bug 349326: Resource leak on non-Closeable resource
*bug 358903 - Filter practically unimportant resource leak warnings
*bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*bug 392384 - [1.8][compiler][null] Restore nullinfo from type annotations in class files
*Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*Bug 417295 - [1.8][null] Massage type annotated nullness analysis to gel well with deep encoded type bindings.
*Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*Bug 426792 - [1.8][infrastructure][impl] generify new type inference engine
*Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
*Bug 431269 - [1.8][compiler][null] StackOverflow in nullAnnotatedReadableName
*Bug 431408 - Java 8 (1.8) generics bug
*Bug 435962 - [RC2] StackOverflowError when building
*Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*Bug 438250 - [1.8][null] NPE trying to report bogus null annotation conflict
*Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.
*Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables
*Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability analysis
*Bug 456459 - Discrepancy between Eclipse compiler and javac - Enums, interfaces, and generics
*Bug 456487 : [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
*Bug 462790 - [null] NPE in Expression computeConversion()
*Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error messages
* Jesper S Møller <jesper@selskabet.org> - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
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* /opt/cola/permits/1349017544_1655880808.03160980/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/lookup/TypeVariableBinding.java
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* Stephan Herrmann - Contributions for
*bug 186342 - [compiler][null] Using annotations for null checking
*bug 331649 - [compiler][null] consider null annotations for fields
*bug 383368 - [compiler][null] syntactic null analysis for field references
*bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
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*bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
bug 383368 - [compiler][null] syntactic null analysis for field references
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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
* Bug 328281 - visibility leaks not detected when analyzing unused field in private class
* Bug 300576 - NPE Computing type hierarchy when compliance doesn't match libraries
* Bug 354536 - compiling package-info.java still depends on the order of compilation units
* Bug 349326 - [1.7] new warning for missing try-with-resources
* Bug 358903 - Filter practically unimportant resource leak warnings
* Bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class
* Bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
* Bug 444024 - [1.8][compiler][null] Type mismatch error in annotation generics assignment which happens "sometimes"
* Bug 45967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 4315821 - [1.8][compiler] CLASS_EXTENDS target type annotation missing for anonymous classes
* het@google.com - Bug 456986 - Bogus error when annotation processor generates annotation type
* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178
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* Contributors:
* tyeung@bea.com - initial API and implementation
* olivier_thomann@ca.ibm.com - add hashCode() and equals(...) methods
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  * Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
  * Jesper S Moller -. Contribution for bug 400830: [1.8][formatter] Code formatter for Java 8

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* Stephen Herrmann <stephan@cs.tu-berlin.de> - Contributions for
* bug 133125 - [compiler][null] need to report the null status of expressions and analyze them simultaneously
* bug 292478 - Report potentially null across variable assignment
* bug 324178 - [null] ConditionalExpression.nullStatus(..) doesn't take into account the analysis of condition itself
* bug 354554 - [null] conditional with redundant condition yields weak error message
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* bug 426078 - [1.8] VerifyError when conditional expression passed as an argument
* bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions
* bug 428352 - [1.8][compiler] Resolution errors don't always surface
* bug 407414 - [compiler][null] Incorrect warning on a primitive type being null

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* Found in path(s):
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/parser/Scanner.java
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* bug 133125 - [compiler][null] need to report the null status of expressions and analyze them simultaneously
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* bug 324178 - [null] ConditionalExpression.nullStatus(..) doesn't take into account the analysis of condition itself
* bug 354554 - [null] conditional with redundant condition yields weak error message
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* bug 426078 - [1.8] VerifyError when conditional expression passed as an argument
* bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions
* bug 428352 - [1.8][compiler] Resolution errors don't always surface
* bug 407414 - [compiler][null] Incorrect warning on a primitive type being null

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  jar/org/eclipse/jdt/internal/compiler/parser/RecoveredUnit.java
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  jar/org/eclipse/jdt/internal/compiler/parser/RecoveredField.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
  jar/org/eclipse/jdt/internal/compiler/env/INameEnvironment.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
  jar/org/eclipse/jdt/internal/compiler/CompilationResult.java
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  jar/org/eclipse/jdt/internal/compiler/parser/RecoveredElement.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
  jar/org/eclipse/jdt/internal/compiler/ast/ClassLiteralAccess.java
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  jar/org/eclipse/jdt/internal/compiler/env/INameEnvironment.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
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* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
* work)
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Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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*Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds *
*Bug 441797 - [1.8] synchronize type annotations on capture and its wildcard *
*Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability analysis *
*Bug 456924 - StackOverflowError during compilation *
*Bug 462790 - [null] NPE in Expression.computeConversion() *
* Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version *
*Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type */
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*bug 349326 - [1.7] new warning for missing try-with-resources *
*bug 358903 - Filter practically unimportant resource leak warnings *
*bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
* Bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
* Bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
* Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
* Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
* Bug 425183 - [1.8][inference] make CaptureBinding18 safe
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
* Jesper S Moller - Contributions for
* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
  * Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
* Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
  * bug 386692 - Missing "unused" warning on "autowired" fields
* Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
  * bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource

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jar/org/eclipse/jdt/internal/compiler/lookup/AnnotationHolder.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
jar/org/eclipse/jdt/internal/compiler/util/HashtableOfInt.java
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* IBM Corporation - initial API and implementation                           *
* Jesper S Moller - Contributions for                                        *
*Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*     Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*******************************************************************************/

Found in path(s):
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFileConstants.java
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* Perry James - nullStatus method improvement (165346)                       *
* Stephan Herrmann - Contribution for                                        *
*bug 383368 - [compiler][null] syntactic null analysis for field references
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* Stephan Herrmann - Contributions for
*bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*bug 186342 - [compiler][null] Using annotations for null checking
*bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor
*bug 370639 - [compiler][resource] restore the default for resource leak warnings
*bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*Bug 400874 - [1.8][compiler] Inferference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
*Bug 426290 - [1.8][compiler] Inferference + overloading => wrong method resolution ?
*Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method
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* IBM Corporation - initial API and implementation
* Stephan Herrmann - Contribution for
* bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
* Jesper S Moller <jesper@selskabet.org> - Contributions for
* bug 378674 - "The method can be declared as static" is wrong
******************************************************************************

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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
  jar/org/eclipse/jdt/internal/compiler/ast/QualifiedThisReference.java
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* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178
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  jar/org/eclipse/jdt/internal/compiler/lookup/ConstraintFormula.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
  jar/org/eclipse/jdt/internal/compiler/lookup/ConstraintExceptionFormula.java
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 * Stephan Herrmann - Contributions for
 * bug 349326 - [1.7] new warning for missing try-with-resources
 * bug 186342 - [compiler][null] Using annotations for null checking
 * bug 370639 - [compiler][resource] restore the default for resource leak warnings
 * bug 265744 - Enum switch should warn about missing default
 * bug 374605 - Unreasonable warning for enum-based switch statements
 * bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
 * Bug 441208 - [1.8][null]SuppressWarnings("null") does not suppress / marked Unnecessary
 * Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
 */

Found in path(s):
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3.26.0-sources-2.jar/org/eclipse/jdt/internal/compiler/impl/IrritantSet.java

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 * IBM Corporation - fix for 342936
 * Kenneth Olson - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ
 * Dennis Hendriks - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ
 * Frits Jalvingh - fix for bug 533830.
 */
Found in path(s):
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/tool/EclipseCompilerImpl.java
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*bug 186342 - [compiler][null] Using annotations for null checking
*bug 365519 - editorial cleanup after bug 186342 and bug 365387
*bug 388281 - [compiler][null] inheritance of null annotations as an option
*bug 388795 - [compiler] detection of name clash depends on order of super interfaces
*bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs to be declared abstract
*bug 390883 - [1.8][compiler] Unable to override default method
*bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*bug 401246 - [1.8][compiler] abstract class method should now trump conflicting default methods
*bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
*bug 403867 - [1.8][compiler] Suspect error about duplicate default methods
*bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
*bug 409473 - [compiler] JDT cannot compile against JRE 1.8
*Bug 420080 - [1.8] Overridden Default method is reported as duplicated
*Bug 404690 - [1.8][compiler] revisit bridge generation after VM bug is fixed
*Bug 410325 - [1.7][compiler] Generified method override different between javac and eclipse compiler
*Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
*Bug 440773 - [1.8][null]DefaultLocation.RETURN_TYPE erroneously affects method parameters in @NonNullByDefault
*Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*Bug 446442 - [1.8] merge null annotations from super methods
*******************************************************************************/

Found in path(s):
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/lookup/MethodVerifier15.java
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*bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
*Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*Bug 434600 - Incorrect null analysis error reporting on type parameters
*Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
*Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*Bug 437072 - [compiler][null] Null analysis emits possibly incorrect warning for new int[]] despite
@NonNullByDefault
*Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
* Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
* Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code
generator
* Jesper S Møller <jesper@selskabet.org> - Contributions for
* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
* bug 529556 - [18.3] Add content assist support for ‘var’ as a type
* 
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
jar/org/eclipse/jdt/internal/compiler/ast/TypeReference.java
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  jar/org/eclipse/jdt/internal/compiler/ast/CompactConstructorDeclaration.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
  jar/org/eclipse/jdt/internal/compiler/ast/TextBlock.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
  jar/org/eclipse/jdt/internal/compiler/classfmt/ComponentInfoWithTypeAnnotation.java
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* Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda
*******************************************************************************/

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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
  jar/org/eclipse/jdt/internal/compiler/ast/Initializer.java
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* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 265744 - Enum switch should warn about missing default
* bug 374605 - Unreasonable warning for enum-based switch statements
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*******************************************************************************

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* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
* bug 370639 - [compiler][resource] restore the default for resource leak warnings
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
* bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*Bug 416267 - NPE in QualifiedAllocationExpression.resolveType
*Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
* Jesper S Møller <jesper@selskabet.org> - Contributions for
* bug 378674 - "The method can be declared as static" is wrong
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
  * Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
  * Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method
* Till Brychcy - Contributions for
* bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File

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  * Stephan Herrmann - Contribution for
  * bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance
  * bug 388954 - [1.8][compiler] detect default methods in class files
  * bug 388281 - [compiler][null] inheritance of null annotations as an option
  * bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs to be declared abstract
  * bug 390883 - [1.8][compiler] Unable to override default method
  * bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
  * bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
  * bug 406928 - computation of inherited methods seems damaged (affecting @Overrides)
  * bug 409473 - [compiler] JDT cannot compile against JRE 1.8
  * Bug 420080 - [1.8] Overridden Default method is reported as duplicated
  * Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

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* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2.jar/org/eclipse/jdt/internal/compiler/lookup/ ElementValuePair.java
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  * Bug 467482 - TYPE_USE null annotations: Incorrect "Redundant null check"-warning

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*     Stephan Herrmann - Contribution for
*     Bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*     Stephan Herrmann - Contribution for
*     Bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*     Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*     Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
*******************************************************************************

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bug 383368 - [compiler][null] syntactic null analysis for field references
Jesper S Moller - Contributions for
Bug 378674 - "The method can be declared as static" is wrong

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Stephan Herrmann - Contributions for
bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
bug 349326 - [1.7] new warning for missing try-with-resources
bug 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)
bug 186342 - [compiler][null] Using annotations for null checking
bug 365835 - [compiler][null] inconsistent error reporting.
bug 365519 - editorial cleanup after bug 186342 and bug 365387
bug 358903 - Filter practically unimportant resource leak warnings
bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
bug 370639 - [compiler][resource] restore the default for resource leak warnings
bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
bug 383368 - [compiler][null] syntactic null analysis for field references
bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
bug 401030 - [1.8][null] Null analysis support for lambda methods.
*Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*Bug 417758 - [1.8][null] Null safety compromise during array creation.
*Bug 427438 - [1.8][compiler] NPE at
*Bug 430150 - [1.8][null] stricter checking against type variables
*Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*Bug 455723 - Nonnull argument not correctly inferred in loop
  * Jesper S Møller - Contributions for
  *bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression

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Found in path(s):
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/ast/ReturnStatement.java
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/apt/util/ArchiveFileObject.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/tool/Archive.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/tool/Util.java

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* Stephan Herrmann - Contributions for
*  bug 332637 - Dead Code detection removing code that isn't dead
*  bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis
*  bug 349326 - [1.7] new warning for missing try-with-resources
*  bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
*bug 358903 - Filter practically unimportant resource leak warnings
*bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*bug 401088 - [compiler][null] Wrong warning "Redundant null check" inside nested try statement
*bug 401092 - [compiler][null] Wrong warning "Redundant null check" in outer catch of nested try
*bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*bug 384380 - False positive on a ?? Potential null pointer access ?? after a continue
*Bug 415790 - [compiler][resource] Incorrect potential resource leak warning in for loop with close in try/catch
*Bug 371614 - [compiler][resource] Wrong "resource leak" problem on return/throw inside while loop
*Bug 444964 - [1.7][resource] False resource leak warning (try-with-resources for ByteArrayOutputStream - return inside for loop)
* Jesper Steen Moller - Contributions for
*bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*  Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* *
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Found in path(s):
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/ast/TryStatement.java
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* Stephan Herrmann - Contributions for
* bug 325755 - [compiler] wrong initialization state after conditional expression
* bug 320170 - [compiler] [null] Whitebox issues in null analysis
* bug 292478 - Report potentially null across variable assignment
* bug 332637 - Dead Code detection removing code that isn't dead
* bug 341499 - [compiler][null] allocate extra bits in all methods of UnconditionalFlowInfo
* bug 349326 - [1.7] new warning for missing try-with-resources
*bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*bug 386181 - [compiler][null] wrong transition in UnconditionalFlowInfo.mergedWith()
*bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*Bug 454031 - [compiler][null][loop] bug in null analysis; wrong "dead code" detection
*Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
*******************************************************************************

Found in path(s):
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/flow/UnconditionalFlowInfo.java
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* Jesper S Møller - Contributions for
* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
* Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
* Bug 416885 - [1.8][compiler][IncompatibleClassChange error (edit)]
* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
* Bug 439889 - [1.8][compiler] [lambda] Deserializing lambda fails with IllegalArgumentException: "Invalid lambda deserialization"

Found in path(s):
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/codegen/ConstantPool.java
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* Bug 349326 - [1.7] new warning for missing try-with-resources
* Bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
* Bug 358903 - Filter practically unimportant resource leak warnings
* Bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
* Bug 370639 - [compiler][resource] restore the default for resource leak warnings
* Bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
* Bug 379784 - [compiler] "Method can be static" is not getting reported
* Bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
* Bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 371614 - [compiler][resource] Wrong "resource leak" problem on return/throw inside while loop
* Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
* Bug 444964 - [1.7+][resource] False resource leak warning (try-with-resources for ByteArrayOutputStream - return inside for loop)
* Bug 396575 - [compiler][resources] Incorrect Errors/Warnings check for potential resource leak when surrounding with try-catch
* Jesper S Møller <jesper@selskabet.org> - Contributions for
* Bug 378674 - "The method can be declared as static" is wrong
* Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it extends
the outer class
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* IBM Corporation - added the following constants
* NonStaticAccessToStaticField
* NonStaticAccessToStaticMethod
* Task
* ExpressionShouldBeAVariable
* AssignmentHasNoEffect
* IBM Corporation - added the following constants
* TooManySyntheticArgumentSlots
* TooManyArrayDimensions
* TooManyBytesForStringConstant
* TooManyMethods
* TooManyFields
* NonBlankFinalLocalAssignment
* ObjectCannotHaveSuperTypes
* MissingSemicolon
* InvalidParenthesizedExpression
* EnclosingInstanceInConstructorCall
* BytecodeExceeds64KLimitForConstructor
* IncompatibleReturnTypeForNonInheritedInterfaceMethod
* UnusedPrivateMethod
* UnusedPrivateConstructor
* UnusedPrivateType
* UnusedPrivateField
* IncompatibleExceptionInThrowsClauseForNonInheritedInterfaceMethod
* InvalidExplicitConstructorCall
* IBM Corporation - added the following constants
* PossibleAccidentalBooleanAssignment
* SuperfluousSemicolon

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* IndirectAccessToStaticField
* IndirectAccessToStaticMethod
* IndirectAccessToStaticType
* BooleanMethodThrowingException
* UnnecessaryCast
* UnnecessaryArgumentCast
* UnnecessaryInstanceof
* FinallyMustCompleteNormally
* UnusedMethodDeclaredThrownException
* UnusedConstructorDeclaredThrownException
* InvalidCatchBlockSequence
* UnqualifiedFieldAccess
* IBM Corporation - added the following constants
* Javadoc
* JavadocUnexpectedTag
* JavadocMissingParamTag
* JavadocMissingParamName
* JavadocDuplicateParamName
* JavadocInvalidParamName
* JavadocMissingReturnTag
* JavadocDuplicateReturnTag
* JavadocMissingThrowsTag
* JavadocMissingThrowsClassName
* JavadocInvalidThrowsClass
* JavadocDuplicateThrowsClassName
* JavadocInvalidThrowsClassName
* JavadocMissingSeeReference
* JavadocInvalidSeeReference
* JavadocInvalidSeeHref
* JavadocInvalidSeeArgs
* JavadocMissing
* JavadocInvalidTag
* JavadocMessagePrefix
* EmptyControlFlowStatement
* IBM Corporation - added the following constants
* IllegalUsageOfQualifiedTypeReference
* InvalidDigit
* IBM Corporation - added the following constants
* ParameterAssignment
* FallthroughCase
* IBM Corporation - added the following constants
* UnusedLabel
* UnnecessaryNLSTag
* LocalVariableMayBeNull
* EnumConstantsCannotBeSurroundedByParenthesis
* JavadocMissingIdentifier
* JavadocNonStaticTypeFromStaticInvocation
* RawTypeReference
* PotentialNullMessageSendReference
* RedundantNullCheckOnNonNullMessageSend
* CannotImplementIncompatibleNullness
* RedundantNullAnnotation
* RedundantNullDefaultAnnotation
* RedundantNullDefaultAnnotationPackage
* RedundantNullDefaultAnnotationType
* RedundantNullDefaultAnnotationMethod
* ContradictoryNullAnnotations
* IllegalAnnotationForBaseType
* RedundantNullCheckOnSpecdNonNullLocalVariable
* SpecdNonNullLocalVariableComparisonYieldsFalse
* RequiredNonNullButProvidedSpecdNullable
* MissingDefaultCase
* MissingEnumConstantCaseDespiteDefault
* UninitializedLocalVariableHintMissingDefault
* UninitializedBlankFinalFieldHintMissingDefault
* ShouldReturnValueHintMissingDefault
* IllegalModifierForInterfaceDefaultMethod
* InheritedDefaultMethodConflictsWithOtherInherited
* ConflictingNullAnnotations
* ConflictingInheritedNullAnnotations
* UnsafeElementTypeConversion
* ArrayReferencePotentialNullReference
* DereferencingNullableExpression
* NullityMismatchingTypeAnnotation
* NullityMismatchingTypeAnnotationSuperHint
* NullityUncheckedTypeAnnotationDetail
* NullityUncheckedTypeAnnotationDetailSuperHint
* NullableFieldReference
* UninitializedNonNullField
* UninitializedNonNullFieldHintMissingDefault
*NonNullMessageSendComparisonYieldsFalse
* RedundantNullCheckOnNonNullSpecdField
*NonNullSpecdFieldComparisonYieldsFalse
*NonNullExpressionComparisonYieldsFalse
* RedundantNullCheckOnNonNullExpression
* ReferenceExpressionParameterNullityMismatch
* ReferenceExpressionParameterNullityUnchecked
* ReferenceExpressionReturnValueNullRedef
* ReferenceExpressionReturnValueNullRedefUnchecked
* DuplicateInheritedDefaultMethods
* SuperAccessCannotBypassDirectSuper
* SuperCallCannotBypassOverride
* ConflictingNullAnnotations
* ConflictingInheritedNullAnnotations
* UnsafeElementTypeConversion
* PotentialNullUnboxing
*NullUnboxing
*NullExpressionReference
*PotentialNullExpressionReference
*RedundantNullCheckAgainstNonNullType
*NullAnnotationUnsupportedLocation
*NullAnnotationUnsupportedLocationAtType
*NullityMismatchTypeArgument
*ContradictoryNullAnnotationsOnBound
*UnsafeNullnessCast
*ContradictoryNullAnnotationsInferred
*NonNullDefaultDetailIsNotEvaluated
*NullNotCompatibleToFreeTypeVariable
*NullityMismatchAgainstFreeTypeVariable
*ImplicitObjectBoundNoNonNullDefault
*IllegalParameterNullityRedefinition
*ContradictoryNullAnnotationsInferredFunctionType
*IllegalReturnNullityRedefinitionFreeTypeVariable
*UnlikelyCollectionMethodArgumentType
*UnlikelyEqualsArgumentType
* Jesper S Møller - added the following constants
*TargetTypeNotAFunctionalInterface
*IllegalModifiersForPackage
*DuplicateAnnotationNotMarkedRepeatable
*DisallowedTargetForContainerAnnotation
*RepeatedAnnotationWithContainerAnnotation
*ContainingAnnotationMustHaveValue
*ContainingAnnotationHasNonDefaultMembers
*ContainingAnnotationHasWrongValueType
* ContainingAnnotationHasShorterRetention
*RepeatableAnnotationHasTargets
*RepeatableAnnotationTargetMismatch
*RepeatableAnnotationIsDocumented
*RepeatableAnnotationIsInherited
*RepeatableAnnotationWithRepeatingContainerAnnotation
*VarLocalMultipleDeclarators
*VarLocalCannotBeArray
*VarLocalReferencesItself
*VarLocalWithoutInitializer
*VarLocalInitializedToNull
*VarLocalCannotBeArrayInitializers
*VarLocalCannotBeLambda
*VarLocalCannotBeMethodReference
*VarIsReserved
*VarIsReservedInFuture
*VarIsNotAllowedHere
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 * Frits Jalvingh - fix for bug 533830.
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 * wharley@bea.com - initial API and implementation
 * IBM Corporation - fix for 342598
 * IBM Corporation - Java 8 support
 * het@google.com - Bug 427943 - The method
 * org.eclipse.jdt.internal.compiler.apt.model.Factory.getPrimitiveType does not throw IllegalArgumentException
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*Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build but not on incremental build?
*Bug 469584 - ClassCastException in Annotation.detectStandardAnnotation (320)
  * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
  * Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
  * Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references
  * Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped
  * Bug 414384 - [1.8] type annotation on abbreviated inner class is not marked as inner type
  * Jesper S Moller <jesper@selskabet.org> - Contributions for
  * Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
  * Bug 412151 - [1.8][compiler] Check repeating annotation's collection type
  * Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
  * Bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains

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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredRequiresStatement.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModuleStatement.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModuleReference.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/ast/ExportsStatement.java
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* het@google.com - Bug 441790
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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 407191 - [1.8] Binary access support for type annotations

 entityType: /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
jar/org/eclipse/jdt/internal/compiler/env/IBinaryField.java
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jar/org/eclipse/jdt/internal/compiler/lookup/ImplicitNullAnnotationVerifier.java
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*bug 383368 - [compiler][null] syntactic null analysis for field references
*bug 403086 - [compiler][null] include the effect of `assert` in syntactic null analysis for fields
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
  jar/org/eclipse/jdt/internal/compiler/ast/UnaryExpression.java
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*bug 317046 - Exception during debugging when hover mouse over a field
*bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*bug 415291 - [1.8][null] differentiatate type incompatibilities due to null annotations
*bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*bug 423504 - [1.8][compiler] Implement "18.5.3 Functional Interface Parameterization Inference"
*bug 424712 - [1.8][compiler] NPE in TypeBinding.isProvablyDistinctTypeArgument
*bug 426792 - [1.8][inference][impl] generify new type inference engine
*bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
*bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*bug 427626 - [1.8] StackOverflow while typing new ArrayList<String>().toArray( and asking for code completion
*bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*bug 435962 - [RC2] StackOverFlowError when building
*bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
* Jesper S Moller <jesper@selskabet.org> - Contributions for
*bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*
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  * Stephan Herrmann - Contributions for

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

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*bug 365519 - editorial cleanup after bug 186342 and bug 365387
*bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*******************************************************************************

Found in path(s):
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2- jar/org/eclipse/jdt/internal/compiler/lookup/PackageBinding.java

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* Stephan Herrmann - Contributions for
*bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*bug 349326 - [1.7] new warning for missing try-with-resources
*bug 186342 - [compiler][null] Using annotations for null checking
*bug 358903 - Filter practically unimportant resource leak warnings
*bug 370639 - [compiler][resource] restore the default for resource leak warnings
*bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*bug 379784 - [compiler] "Method can be static" is not getting reported
*bug 379834 - Wrong "method can be static" in presence of qualified super and different staticness of nested super class.
*bug 382821 - [compiler][null] inheritance of null annotations as an option
*bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
*bug 331649 - [compiler][null] consider null annotations for fields
*bug 383368 - [compiler][null] syntactic null analysis for field references
*bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*bug 382350 - [1.8][compiler] Unable to invoke inherited default method via L.super.m() syntax
*bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
*Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
*Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution?
*Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*Bug 427438 - [1.8][compiler] NPE at org.eclipse.jdt.internal.compiler.ast.MessageSend.java:280
*Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
*Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
*Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
*Bug 427888 - [1.8][compiler] Type not correctly inferred in lambda expression
*Bug 456487 - [1.8][null] Nullable type variant of @NonNull-constrained type parameter causes grief
*Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*Bug 472618 - [compiler][null] assertNotNull vs. Assert.assertNotNull
*Bug 470958 - [1.8] Unable to convert lambda
*Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
* Jesper S Moller - Contributions for
* Bug 38674 - "The method can be declared as static" is wrong
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method
*******************************************************************************

Found in path(s):
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2.jar/org/eclipse/jdt/internal/compiler/ast/MessageSend.java
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* Bug 428811 - [1.8][compiler] Type witness unnecessarily required
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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
* Bug 185682 - Increment/decrement operators mark local variables as read
* Bug 331649 - [compiler][null] consider null annotations for fields
* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 447088 - [null] @Nullable on fully qualified field type is ignored
*******************************************************************************/
*Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*Bug 458396 - NPE in CodeStream.invoke()
*Bug 446217 - [null] @NonNullByDefault in package-info.java causes bogus "null type safety" warning
* Till Brychcy - Contribution for
* bug 467094 - [1.8][null] TYPE_USE NullAnnotations of array contents are applied to field.
*******************************************************************************

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*/opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
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* Stephan Herrmann - Contributions for 
*bug 349326 - [1.7] new warning for missing try-with-resources 
*bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis 
*bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files 
*Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
Bug 412076 - [compiler] @NonNullByDefault doesn't work for varargs parameter when in generic interface
Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument annotations
Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
Bug 416175 - [1.8][compiler][null] NPE with a code snippet that used null annotations on wildcards
Bug 416174 - [1.8][compiler][null] Bogus name clash error with null annotations
Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
Bug 425278 - [1.8][compiler] Suspect error: The target type of this expression is not a well formed parameterized type due to bound(s) mismatch
Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType
Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
Bug 426563 - [1.8] AIOOBE when method with error invoked with lambda expression as argument
Bug 426792 - [1.8][inference][impl] generify new type inference engine
Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.
Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
Bug 456508 - Unexpected RHS PolTypeBinding for: <code-snippet>
Bug 390064 - [compiler][resource] Resource leak warning missing when extending parameterized class

* Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

Found in path(s):
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedTypeBinding.java

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

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

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* * Stephan Herrmann - Contributions for
* * bug 292478 - Report potentially null across variable assignment
* * bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* * bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
* * bug 331649 - [compiler][null] consider null annotations for fields
* * bug 383368 - [compiler][null] syntactic null analysis for field references
* * bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
* * bug 400761 - [null] Follow up of bug 401088: Missing warning about redundant null check
* * bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
**Bug 392099** - [1.8][compiler][null] Apply null annotation on types for null analysis
**Bug 417295** - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
**Bug 400874** - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
**Bug 426792** - [1.8][inference][impl] generify new type inference engine
**Bug 423505** - [1.8] Implement "18.5.4 More Specific Method Inference"
**Bug 426996** - [1.8][inference] try to avoid method Expression.unresolve()?
**Bug 428724** - [1.8] [compiler] Cannot cast from Number to double
**Bug 428352** - [1.8][compiler] Resolution errors don't always surface
**Bug 452788** - [1.8][compiler] Type not correctly inferred in lambda expression
  * Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
  * Bug 473178

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* Benjamin Muskalla - Contribution for bug 239066
* Stephan Herrmann - Contributions for
* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
* bug 295551 - Add option to automatically promote all warnings to errors
* bug 349326 - [1.7] new warning for missing try-with-resources
*bug 186342 - [compiler][null] Using annotations for null checking
*bug 370639 - [compiler][resource] restore the default for resource leak warnings
*bug 366063 - Compiler should not add synthetic @NonNull annotations
*bug 374605 - Unreasonable warning for enum-based switch statements
*bug 388281 - [compiler][null] inheritance of null annotations as an option
*bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*bug 383368 - [compiler][null] syntactic null analysis for field references
*Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
* Jesper Steen Moller - Contributions for
*bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code
*bug 407297 - [1.8][compiler] Control generation of parameter names by option
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*bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
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bug 328281 - visibility leaks not detected when analyzing unused field in private class
bug 349326 - [1.7] new warning for missing try-with-resources
bug 186342 - [compiler][null] Using annotations for null checking
bug 365836 - [compiler][null] Incomplete propagation of null defaults.
bug 365519 - editorial cleanup after bug 186342 and bug 365387
bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
bug 366063 - Compiler should not add synthetic @NonNull annotations
bug 384663 - Package Based Annotation Compilation Error in JDT 3.8/4.2 (works in 3.7.2)
bug 386356 - Type mismatch error with annotations and generics
bug 388281 - [compiler][null] inheritance of null annotations as an option
bug 331649 - [compiler][null] consider null annotations for fields
bug 380896 - [compiler][null] Enum constants not recognised as being NonNull.
bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
bug 416172 - [1.8][compiler][null] null type annotation not evaluated on method return type
bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
bug 426048 - [1.8] NPE in TypeVariableBinding.internalBoundCheck when parentheses are not balanced
bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8
bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
bug 461250 - ArrayIndexOutOfBoundsException in SourceTypeBinding.fields
bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
Jesper S Moller <jesper@selskabet.org> - Contributions for
bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
Till Brychcy - Contributions for
bug 415269 - @NonNullByDefault is not always inherited to nested classes
Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
* Sebastian Zarnekow - Contributions for
*bug 544921 - [performance] Poor performance with large source files

Found in path(s):
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/lookup/SourceTypeBinding.java
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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*bug 328281 - visibility leaks not detected when analyzing unused field in private class
*bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/lookup/ExtraCompilerModifiers.java
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* David Foerster - patch for toUpperCase as described in https://bugs.eclipse.org/bugs/show_bug.cgi?id=153125
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*bug 365662 - [compiler][null] warn on contradictory and redundant null annotations  
*bug 401030 - [1.8][null] Null analysis support for lambda methods.  
*Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault  
*Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations  
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*bug 384380 - False positive on a "Potential null pointer access" after a continue
*Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
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*bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
* Bug 384687 - [1.8] Wildcard type arguments should be rejected for lambda and reference expressions
*Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
* Stephan Herrmann - Contribution for
*bug 402028 - [1.8][compiler] null analysis for reference expressions
*bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super via L.super.m() syntax
*Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to Files::walk
*Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
*Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method
*Bug 427438 - [1.8][compiler] NPE at
Bug 428264 - [1.8] method reference of generic class causes problems (wrong inference result or NPE)

Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

Bug 426537 - [1.8][inference] Eclipse compiler thinks I<? super J> is compatible with I<J<?>> - raw type J involved

Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect “throws E”

Bug 435689 - [1.8][inference] Type inference not occurring with lambda expression and method reference

Bug 438383 - [1.8][null] Bogus warning: Null type safety at method return type

Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference

Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference

Bug 438945 - [1.8] NullPointerException InferenceContext18.checkExpression in java 8 with generics, primitives, and overloading

Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression

Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound

Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()

Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param

Bug 470542 - NullPointerException in ReferenceExpression.isPotentiallyCompatibleWith (962)

Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contribution for
Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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* bug 186342 - [compiler][null] Using annotations for null checking
* bug 365519 - editorial cleanup after bug 186342 and bug 365387
* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
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  *bug 349326 - [1.7] new warning for missing try-with-resources
  *bug 186342 - [compiler][null] Using annotations for null checking
  *bug 364890 - BinaryTypeBinding should use char constants from Util
  *bug 365387 - [compiler][null] bug 186342: Issues to follow up post review and verification.
  *bug 358903 - Filter practically unimportant resource leak warnings
  *bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
  *bug 388800 - [1.8][compiler] detect default methods in class files
  *bug 388281 - [compiler][null] inheritance of null annotations as an option
  *bug 331649 - [compiler][null] consider null annotations for fields
  *bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
  *Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
  *Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
  *Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
  *Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
  *Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
  *Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations
  *Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
  *Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
  *Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
  *Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
  *Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
  *Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
  *Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
  *Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
  *Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)
  *Bug 454182 - Internal compiler error when using 1.8 compliance for simple project
  *Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
  *Bug 447661 - [1.8][null] Incorrect ‘expression needs unchecked conversion’ warning
  * Jesper Steen Moller - Contributions for
    *Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
    *Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
  * Sebastian Zarnekow - Contributions for
    *bug 544921 - [performance] Poor performance with large source files
* Alexander Lehmann - Contributions for
*bbug 566258 - Intermittent NPE in APT RoundDispatcher
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/env/IGenericMethod.java
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  * Stephan Herrmann - Contribution for
    * Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
  * Olivier Tardieu tardieu@us.ibm.com - Contributions for
    * Bug 442416 - $deserializeLambda$ missing cases for nested lambdas
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    * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
    * Bug 388281 - [compiler][null] inheritance of null annotations as an option
    * Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
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*bug 186342 - [compiler][null] Using annotations for null checking
*bug 365519 - editorial cleanup after bug 186342 and bug 365387
*bug 358903 - Filter practically unimportant resource leak warnings
*bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*bug 388281 - [compiler][null] inheritance of null annotations as an option
*bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
*bug 382069 - [null] Make the null analysis consider JUnit's assertNotEqual null similarly to assertions
*bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*Bug 426792 - [1.8][inference][impl] generify new type inference engine
*Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*Bug 418743 - [1.8][null] contradictory annotations on invocation of generic method not reported
*Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*Bug 431581 - Eclipse compiles what it should not
*Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*Bug 446442 - [1.8] merge null annotations from super methods
*Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error
Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
* Jesper S Moller - Contributions for
Bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
* Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
  * bug 386692 - Missing "unused" warning on "autowired" fields
* Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
  * bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource
* Sebastian Zarnekow - Contributions for
Bug 544921 - [performance] Poor performance with large source files
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* Stephan Herrmann - Contribution for
*Bug 365992 - [builder] [null] Change of nullness for a parameter doesn't trigger a build for the files that call the method
*Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*Bug 440687 - [compiler][batch][null] improve command line option for external annotations
  * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
  * bug 407191 - [1.8] Binary access support for type annotations
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jar/org/eclipse/jdt/internal/compiler/ASTVisitor.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
jar/org/eclipse/jdt/internal/compiler/parser/JavadocParser.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
jar/org/eclipse/jdt/internal/compiler/lookup/ImportBinding.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
jar/org/eclipse/jdt/internal/compiler/env/ISourceType.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
jar/org/eclipse/jdt/internal/compiler/lookup/MissingTypeBinding.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
jar/org/eclipse/jdt/internal/compiler/parser/JavadocTagConstants.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
jar/org/eclipse/jdt/internal/compiler/ast/ImportReference.java

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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/env/ClassSignature.java

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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/tool/EclipseFileObject.java

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/.../opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2.jar/org/eclipse/jdt/internal/compiler/ast/IntLiteralMinValue.java
/.../opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2.jar/org/eclipse/jdt/internal/compiler/ast/DoubleLiteral.java
/.../opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2.jar/org/eclipse/jdt/internal/compiler/ast/NumberLiteral.java
/.../opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2.jar/org/eclipse/jdt/internal/compiler/lookup/InferenceContext.java
/.../opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2.jar/org/eclipse/jdt/internal/compiler/ast/LongLiteralMinValue.java
/.../opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2.jar/org/eclipse/jdt/internal/compiler/ast/FloatLiteral.java
/.../opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2.jar/org/eclipse/jdt/internal/compiler/ast/IntLiteral.java
/.../opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2.jar/org/eclipse/jdt/internal/compiler/ast/LongLiteral.java

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 * Jesper S Moller - Contributions for
 *bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
 *bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
 *Bug 416885 - [1.8][compiler] IncompatibleClassChange error (edit)
 * Stephan Herrmann - Contribution for
 *bug 401030 - [1.8][null] Null analysis support for lambda methods.
 *Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
 *Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
 *Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
 *Bug 423504 - [1.8] Implement ”18.5.3 Functional Interface Parameterization Inference”
 *Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
 *Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression
 *Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
 *Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType
 *Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
 *Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
 *Bug 426563 - [1.8] AIOOBE when method with error invoked with lambda expression as argument
 *Bug 420525 - [1.8] [compiler] Incorrect error ”The type Integer does not define sum(Object, Object) that is applicable here”
 *Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
 *Bug 428786 - [1.8][compiler] Inference needs to compute the ”ground target type” when reducing a lambda compatibility constraint
 *Bug 428980 - [1.8][null] Simple expression as lambda body doesn’t leverage null annotation on argument
 *Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
 *Bug 432110 - [1.8][compiler] nested lambda type incorrectly inferred vs javac
 *Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
 *Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
 *Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
 *Bug 453483 - [compiler][null][loop] Improve null analysis for loops

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*Bug 455723 - Nonnull argument not correctly inferred in loop
*Bug 463728 - [1.8][compiler][inference] Ternary operator in lambda derives wrong type
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas

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* Stephan Herrmann - Contributions for
* Bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
* Bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
* Bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/batch/BasicModule.java

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* IBM Corporation - initial API and implementation
* Luiz-Otavio Zorzella <zorzella at gmail dot com> - Improve CamelCase algorithm
* Gábor Kövesdán - Contribution for Bug 350000 - [content assist] Include non-prefix matches in auto-complete suggestions
* Stefan Xenos <sxenos@gmail.com> (Google) - Bug 501283 - Lots of hash collisions during indexing
*******************************************************************************

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* Gauthier JACQUES - initial API and implementation
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* Erling Ellingsen - patch for bug 125570
* Stephan Herrmann - Contribution for
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
* Sebastian Zarnekow - Contribution for
* Bug 544921 - [performance] Poor performance with large source files
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
jar/org/eclipse/jdt/internal/compiler/lookup/CompilationUnitScope.java
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 * Lars Vogel <Lars.Vogel@vogella.com> - Contributions for              *
 * Bug 473178                                                          *
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 *   wharley@bea.com - derived base class from BatchMessagerImpl       *
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*bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*bug 370639 - [compiler][resource] restore the default for resource leak warnings
*bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*Bug 417758 - [1.8][null] Null safety compromise during array creation.
*Bug 427438 - [1.8][compiler] NPE at
*Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
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* Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped
* Stephan Herrmann - Contribution for
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 440462 - [null][compiler]NPE in EJC for erroneous null annotations
* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
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*  * Stephan Herrmann - Contributions for
*Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression

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*bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables

/*****************************************************************************/
*bug 292478 - Report potentially null across variable assignment,
*bug 185682 - Increment/decrement operators mark local variables as read
*bug 331649 - [compiler][null] consider null annotations for fields
*bug 383368 - [compiler][null] syntactic null analysis for field references
*Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException: info cannot be null
*Bug 458396 - NPE in CodeStream.invoke()
*Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
	* Jesper S Moller - <jesper@selskabet.org> - Contributions for
	* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*bug 378674 - "The method can be declared as static" is wrong
*bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
*bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
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* wharley@bea.com - initial API and implementation
* (originally in org.eclipse.jdt.apt.core)
* IBM Corporation - Bug 513790
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*bug 186342 - [compiler][null] Using annotations for null checking**
*bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.*
*Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099*
*bug 413958 - Function override returning inherited Generic Type*
*Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)*
*Bug 424710 - [1.8][compiler] CCE in SimpleNameReference.localVariableBinding*
*Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference”*
*Bug 427438 - [1.8][compiler] NPE at org.eclipse.jdt.internal.compiler.lookup.ParameterizedGenericMethodBinding.java*
*Bug 418743 - [1.8][null] contradictory annotations on invocation of generic method not reported*
*Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected*
*Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault*
*Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations*
*Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference*
*Bug 446442 - [1.8] merge null annotations from super methods*
*Bug 457079 - Regression: type inference*
*******************************************************************************

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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedGenericMethodBinding.java

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  * Stephan Herrmann - Contribution for
*bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations*
*Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability

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Bug 456487 - [1.8][null] Nullable type variant of @NonNull-constrained type parameter causes grief
Till Brychcy - Contribution for

Bug 473713 - [1.8][null] Type mismatch: cannot convert from @NonNull A1 to @NonNull A1

Cache the derived type, tagging it as a derivative of both the key type and the naked type.
E.g: int @NonNull [] would be tagged as a derived type of both int and int[]. This is not needed for correctness, but for annotated object reuse. We provide two alternate ways to annotate a type:

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

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

Found in path(s):
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/lookup/TypeSystem.java
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2- jar/org/eclipse/jdt/internal/compiler/env/IRecordComponent.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2- jar/org/eclipse/jdt/internal/compiler/classfmt/RecordComponentInfo.java

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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/util/SuffixConstants.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/util/SourceTypeCollisionException.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/util/Messages.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
jar/org/eclipse/jdt/internal/compiler/batch/FileFinder.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
jar/org/eclipse/jdt/internal/compiler/parser/RecoveredInitializer.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
jar/org/eclipse/jdt/internal/compiler/problem/ProblemSeverities.java
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* wharley@bea.com - initial API and implementation
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* IBM Corporation - fix for 342598
* IBM Corporation - Java 8 support
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* Genady Beriozkin - added support for reporting assignment with no effect
* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 292478 - Report potentially null across variable assignment
* bug 335093 - [compiler][null] minimal hook for future null annotation support
* bug 349326 - [1.7] new warning for missing try-with-resources
*bug 186342 - [compiler][null] Using annotations for null checking
*bug 358903 - Filter practically unimportant resource leak warnings
*bug 370639 - [compiler][resource] restore the default for resource leak warnings
*bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*bug 331649 - [compiler][null] consider null annotations for fields
*bug 383368 - [compiler][null] syntactic null analysis for field references
*bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*******************************************************************************

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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/ast/Assignment.java

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*bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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  *bug 331649 - [compiler][null] consider null annotations for fields
*Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
  * Jesper S Moller - Contributions for
  *bug 382721 - [1.8][compiler] Effectively final variables needs special treatment

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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
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  * Tom Tromey - Contribution for bug 159641
  * Benjamin Muskalla - Contribution for bug 239066
  * Stephan Herrmann - Contributions for
  *bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
  *bug 295551 - Add option to automatically promote all warnings to errors
  * bug 359721 - [options] add command line option for new warning token "resource"
  *bug 365208 - [compiler][batch] command line options for annotation based null analysis
  *bug 374605 - Unreasonable warning for enum-based switch statements
  *bug 375366 - ECJ ignores unusedParameterIncludeDocCommentReference unless enableJavadoc option is set
  *bug 388281 - [compiler][null] inheritance of null annotations as an option
  *bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
  *Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
  *Bug 440687 - [compiler][batch][null] improve command line option for external annotations
*Bug 408815 - [batch][null] Add CLI option for
COMPILER_PB_SYNTACTIC_NULL_ANALYSIS_FOR_FIELDS
* Jesper S Moller - Contributions for
*bug 407297 - [1.8][compiler] Control generation of parameter names by option
* Mat Booth - Contribution for bug 405176
* Frits Jalvingh - fix for bug 533830.
*******************************************************************************

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*bug 349326 - [1.7] new warning for missing try-with-resources
*bug 186342 - [compiler][null] Using annotations for null checking
*bug 365519 - editorial cleanup after bug 186342 and bug 365387
*bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
*bug 383368 - [compiler][null] syntactic null analysis for field references
*Bug 392999 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this location
*Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
* Jesper S Moller <jesper@selskabet.org> - Contributions for
*bug 378674 - "The method can be declared as static" is wrong
*******************************************************************************

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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
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Stephan Herrmann - Contribution for

Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression
Bug 426542 - [1.8] Most specific method not picked when one method has intersection type as type parameter
Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.

Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

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

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IBM Corporation - initial API and implementation
Stephan Herrmann - Contributions for
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* daolaf@gmail.com - Contribution for bug 3292227
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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
* bug 292478 - Report potentially null across variable assignment
* bug 332637 - Dead Code detection removing code that isn't dead
*bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment

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* Karen Moore - fix for https://bugs.eclipse.org/bugs/show_bug.cgi?id=207411
* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
* bug 185682 - Increment/decrement operators mark local variables as read
* bug 186342 - [compiler][null] Using annotations for null checking
*bug 365519 - editorial cleanup after bug 186342 and bug 365387
*bug 374605 - Unreasonable cleanup after bug 186342 and bug 365387
*bug 384870 - [compiler] @Deprecation annotation not detected if preceded by other annotation
*bug 393719 - [compiler] inconsistent warnings on iteration variables
*Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*Bug 424742 - [1.8] NPE in LambdaExpression.isCompatibleWith
*Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
*Bug 427282 - [1.8][compiler] AIOOB (-1) at
ox eclipsedt.jdt.internal.compiler.ClassFile.traverse(ClassFile.java:6209)
*Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varargs
*Bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8
*Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables
*Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
*Bug 446442 - [1.8] merge null annotations from super methods
*Bug 437072 - [compiler][null] Null analysis emits possibly incorrect warning for new int[]][[] despite @NonNullByDefault
* Jesper S Moller - Contributions for
*bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
*bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
* Till Brychcy - Contributions for
* Bug 467094 - [1.8][null] TYPE_USE NullAnnotations of array contents are applied to field.
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* Stephan Herrmann - Contributions for
* Bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis
* Bug 186342 - [compiler][null] Using annotations for null checking
* Bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
* Bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
* Bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* Bug 383368 - [compiler][null] syntactic null analysis for field references
* Bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
* Bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
* Bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
* Bug 455723 - Nonnull argument not correctly inferred in loop
* Bug 415790 - [compiler][resource] Incorrect potential resource leak warning in for loop with close in try/catch
* Bug 446691 - [1.8][null][compiler] NullPointerException in SingleNameReference.analyseCode

Contributors:
* IBM Corporation - initial API and implementation
* Stephan Herrmann - Contribution for
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

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* wharley@bea.com - initial API and implementation
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*bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*bug 331649 - [compiler][null] consider null annotations for fields
*bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*Bug 427438 - [1.8][compiler] NPE at
*Bug 429403 - [1.8][null] null mismatch from type arguments is not reported at field initializer
*Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*******************************************************************************/
*Bug 458396 - NPE in CodeStream.invoke()
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*******************************************************************************

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  jar/eclipse/jdt/internal/compiler/env/INameEnvironmentExtension.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
  jar/eclipse/jdt/internal/compiler/ast/ProvidesStatement.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
  jar/eclipse/jdt/internal/compiler/env/IModuleAwareNameEnvironment.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
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*bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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  jar/org/eclipse/jdt/internal/compiler/ast/BreakStatement.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
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*     Jesper S Moller - Contributions for
*     Stephan Herrmann - Contribution for
*bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*     Stephan Herrmann - Contribution for
*Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
*Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression
*Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
*Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
*Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*Bug 446442 - [1.8] merge null annotations from super methods

* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
  * Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas

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* Walter Harley - initial API and implementation
* IBM Corporation - fix for 342598, 382590
* Jean-Marie Henaff <jmhenaff@google.com> (Google) - Bug 481555
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/ast/FunctionalExpression.java
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* Stephan Herrmann - initial API and implementation
* Nikolay Metchev (nikolaymetchev@gmail.com) - Contributions for
*bug 411098 - [compiler][resource] Invalid Resource Leak Warning using ternary operator inside try-with-resource
*******************************************************************************

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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
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 * IBM Corporation - Fix for bug 328575
 * het@google.com - Bug 415274 - Annotation processing throws a NPE in getElementsAnnotatedWith()
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* Benjamin Muskalla - Contribution for bug 239066
* Stephan Herrmann - Contributions for
* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
* bug 338303 - Warning about Redundant assignment conflicts with definite assignment
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 365519 - editorial cleanup after bug 186342 and bug 365387
* bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
* bug 374605 - Unreasonable warning for enum-based switch statements
* bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
* bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* bug 376053 - [compiler][resource] Strange potential resource leak problems
* bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
* bug 393719 - [compiler] inconsistent warnings on iteration variables
* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
* bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs to be declared abstract
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 382789 - [compiler][null] warn when syntactically-nonnull expression is compared against null
* bug 376590 - Private fields with @Inject are ignored by unused field validation
* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
* bug 402028 - [1.8][compiler] null analysis for reference expressions
* bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
* Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first field
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to Files::walk
* Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
* Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type
Bindings
* Bug 416190 - [1.8][null] detect incompatible overrides due to null type annotations
* Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations
* Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
* Bug 430150 - [1.8][null] stricter checking against type variables
* Bug 434600 - Incorrect null analysis error reporting on type parameters
* Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
* Bug 438467 - [compiler][null] Better error position for "The method _ cannot implement the corresponding method _ due to incompatible nullness constraints"
* Bug 439298 - [null] "Missing code implementation in the compiler" when using @NonNullByDefault in package-info.java
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 446442 - [1.8] merge null annotations from super methods
* Bug 455723 - Nonnull argument not correctly inferred in loop
* Bug 458361 - [1.8][null] reconciler throws NPE in ProblemReporter.illegalReturnRedefinition()
* Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
* Bug 461878 - [1.7][1.8][compiler][null] ECJ compiler does not allow to use null annotations on annotations
* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
  * Jesper S Moller <jesper@selskabet.org> - Contributions for
  * Bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
  * Bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
  * Bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration
  * Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
  * Bug 412151 - [1.8][compiler] Check repeating annotation's collection type
  * Bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
  * Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
  * Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
  * Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
  * Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
  * Bug 386692 - Missing "unused" warning on "autowired" fields
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* Jesper Steen Moller - Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation
  processing
*****************************************************************************/

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* BEA - Patch for bug 172743
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* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
*bug 358903 - Filter practically unimportant resource leak warnings
*Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression
*Bug 427411 - [1.8][generics] JDT reports type mismatch when using method that returns generic type
*Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*Bug 435962 - [RC2] StackOverFlowError when building
*Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
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*Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*Bug 433478 - [compiler][null] NPE in ReferenceBinding.isCompatibleWith
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/RoundDispatcher.java
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*     Bug 432977 - [1.8][null] Incorrect 'type is not visible' compiler error
*     Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations

Taking the binding of QTR as an example, there could be different annotatable components, but we come in a
with a single binding, e.g:

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

/*

Found in path(s):
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
jar/org/eclipse/jdt/internal/compiler/lookup/AnnotatableTypeSystem.java

1.1029 ca-certificates 20180409

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1.1030 python-idna 2.6 1

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1.1031 google-uuid 1.2.0

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1.1044 javassist 3.27.0-GA

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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/rmi/Proxy.java
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/Member.java
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtNewWrappedConstructor.java
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/rmi/ObjectNotFoundException.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/ArrayInit.java
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtArray.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/convert/TransformNewClass.java
jar/javassist/bytecode/LongVector.java
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jar/javassist/util/proxy/ProxyObjectOutputStream.java
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jar/javassist/compiler/ast/CastExpr.java
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jar/javassist/CtClass.java
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jar/javassist/scopedpool/ScopedClassPoolRepository.java
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jar/javassist/expr/Cast.java
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jar/javassist/bytecode(ConstPool.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/analysis/MultiType.java

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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/ArrayMemberValue.java
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/LongMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/DoubleMemberValue.java

1.1045 libpcap 1.8.1 6ubuntu1.18.04.2
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1.1051 mpclib 1.1.0 1

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a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

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

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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The "Library", below, refers to any such software library or work
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the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
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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
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile 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) 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.

c) 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.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/dns/DnsCodecUtil.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker00.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker07.java
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// https://tools.ietf.org/html/rfc7540#section-8.1.2.2 makes a special exception for TE

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/stomp/StompHeaders.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/SpdyFrameDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/socksx/v4/Socks4ClientEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/socksx/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/concurrent/PromiseNotifier.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/SniHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/embedded/EmbeddedChannelId.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolUtil.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/stomp/StompClientHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/haproxy/HAProxyMessage.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/udt/nio/NioUdtAcceptorChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/udt/nio/NioUdtByteRendezvousChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/udt/UdtChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/udt/nio/NioUdtProvider.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codedc/sctp/SctpInboundByteStreamHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codedc/sctp/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codedc/sctp/SctpMessageCompletionHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codedc/sctp/SctpMessageToMessageDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/traffic/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/traffic/TrafficCounter.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/traffic/UdtChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/traffic/UdtAcceptChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/traffic/UdtAcceptChannel.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/DefaultAddressedEnvelope.java
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/**
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in its `@link ChannelPipeline`.

* `<h3>Sub-types</h3>`

* `@link ChannelHandler` itself does not provide many methods, but you usually have to implement one of its subtypes:
  * `<ul>`
  * `<li>` `@link ChannelInboundHandler` to handle inbound I/O events, and</li>`
  * `<li>` `@link ChannelOutboundHandler` to handle outbound I/O operations.</li>`
  * `</ul>`
  * `</p>`
  * `<p>`
  * Alternatively, the following adapter classes are provided for your convenience:
    * `<ul>`
    * `<li>` `@link ChannelInboundHandlerAdapter` to handle inbound I/O events,</li>`
    * `<li>` `@link ChannelOutboundHandlerAdapter` to handle outbound I/O operations, and</li>`
    * `<li>` `@link ChannelDuplexHandler` to handle both inbound and outbound events</li>`
    * `</ul>`
    * `</p>`
    * `<p>`
    * For more information, please refer to the documentation of each subtype.
    * `</p>`

* `<h3>The context object</h3>`

* `<p>`
  * A `@link ChannelHandler` is provided with a `@link ChannelHandlerContext` object. A `@link ChannelHandler` is supposed to interact with the `@link ChannelPipeline` it belongs to via a context object. Using the context object, the `@link ChannelHandler` can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using `@link AttributeKey)s` which is specific to the handler.
  * `<p>`
  * `<h3>State management</h3>`

* `<p>`
  * 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`
      * `}`
    * `<pre>`
    * `public class DataServerHandler extends @link SimpleChannelInboundHandler` &lt;Message&gt; {`
    * *
    * `  private boolean loggedIn;`<b>/b>`
    * *
    * `  @code @Override`
    * `  public void channelRead0([@link ChannelHandlerContext] ctx, Message message) {`
if (message instanceof LoginMessage) {
    authenticate((LoginMessage) message);
    loggedIn = true;
} else if (message instanceof GetDataMessage) {
    if (loggedIn) {
        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 a unauthenticated client can get
    the confidential information:

// Create a new handler instance per channel.
// See {@link ChannelInitializer#initChannel(Channel)}.

public class DataServerInitializer extends {@link ChannelInitializer}@Channel{Channel} {
    {@code @Override}
    public void initChannel({@link Channel} channel) {
        channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
    }
} ...

Using {@link AttributeKey}s

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}:

public interface Message {
    // your methods here
}

{@code @Sharable}

public class DataServerHandler extends {@link SimpleChannelInboundHandler}@Message{Message} {
    private final {@link AttributeKey}@AttributeKey{AttributeKey} auth =
        {@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};

    {@code @Override}
    public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
* 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>` object, you can add the same handler instance to different pipelines:

* `<pre>`
* public class DataServerInitializer extends `<@link ChannelInitializer>`{
*     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
* `<p>`
* `<h3>`Additional resources worth reading</h3>`
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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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/StreamBufferingEncoder.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/StreamBufferingEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/StreamBufferingEncoder.java
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jar/io/netty/handler/codec/DefaultHeaders.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/collection/CharCollections.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/Http2Connection.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/DefaultHttp2ConnectionDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/http2/helloworld/client/Http2ClientInitializer.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/Http2FrameReader.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/Http2FrameWriter.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/Http2Settings.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/Http2ConnectionAdapter.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/Http2FrameReader.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/Http2FrameReader.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/Http2Settings.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/Http2ConnectionEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/collection/IntObjectMap.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/Http2ConnectionDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/collection/LongObjectHashMap.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/mqtt/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/Http2Flags.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/Http2ClientUpgradeCodec.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/Http2FrameListenerDecorator.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/collection/IntCollections.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/CompressorHttp2ConnectionEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/EmptyHttp2Headers.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/DefaultHttp2FrameReader.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/HttpToHttp2ConnectionHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/HttpClientUpgradeHandler.java

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 */

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

Found in path(s):
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/epoll/EpollSocketChannelConfig.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/resolver/dns/LoggingDnsQueryLifecycleObserver.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/uptime/UptimeServerHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/resolver/HostsFileEntries.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/resolver/dns/MultiDnsServerAddressStreamProvider.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/PendingBytesTracker.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/resolver/dns/DnsQueryLifecycleObserverFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/CleartextHttp2ServerUpgradeHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/ClearTextHttp2ServerUpgradeHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/ClearTextHttp2ServerUpgradeHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/epoll/EpollSocketChannelConfig.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/resolver/ResolvedAddressTypes.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/ReflectionUtil.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/OptionalSslHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/resolver/dns/DnsCacheEntry.java
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** Enumeration of supported Base64 dialects.
*
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jar/io/netty/handler/codec/sctp/SctpOutboundByteStreamHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/MessageToByteEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/HttpRequestDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/ByteBufOutputStream.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/udt/echo/message/MsgEchoClient.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/CookieDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/FileRegion.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/http/helloworld/HttpHelloWorldServer.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/ChannelPromise.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/marshalling/package-info.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/socket/nio/NioDatagramChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/EventLoop.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/DefaultEventLoopGroup.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/MessageToMessageCodec.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/websockets/TextWebSocketFrame.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/http/snoop/HttpSnoopClientInitializer.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/LengthFieldPrepender.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/multipart/HttpPostRequestDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/stream/ChunkedWriteHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/string/StringDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/local/LocalAddress.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/serialization/ClassResolvers.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/StringUtil.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/upload/HttpUploadServer.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/multipart/MixedAttribute.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/embedded/EmbeddedSocketAddress.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/ChannelOutboundHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/rtp/RtpMethods.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/rtsp/RtspResponseStatuses.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/example/udt/echo/bytes/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/socks/SocksAuthRequest.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/http/HttpResponseStatus.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/http/HttpContentDecompressor.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/stream/ChunkedInput.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialResponse.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java
jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
ar/jar/io/netty/handler/ssl/SslHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
ar/jar/io/netty/util/internal/logging/InternalLoggerFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/bootstrap/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/serialization/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/Unpooled.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/Constant.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/rtsp/RtspResponseEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/socksproxy/RelayHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/concurrent/MultithreadEventExecutorGroup.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/Signal.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/ByteToMessageCodec.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/udt/echo/rendezvous/MsgEchoPeerBase.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/ByteToMessageCodec.java

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 */
/*
 * Written by Robert Harder and released to the public domain, as explained at
 * https://creativecommons.org/licenses/publicdomain
 */
/**
 * Utility class for [link ByteBuf] that encodes and decodes to and from
 */
The encoding and decoding algorithm in this class has been derived from Robert Harder's Public Domain Base64 Encoder/Decoder.

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

Found in path(s):
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscUnboundedXaddArrayQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/SupportsIterator.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/atomic/BaseSpscLinkedAtomicArrayQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/AtomicQueueFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/AtomicReferenceArrayQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscUnboundedArrayQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseLinkedAtomicQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscCompoundQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/ConcurrentCircularArrayQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/AtomicArrayQueue.java

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jar/io/netty/util/internal/shaded/org/jctools/queues/MpmcArrayQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscChunkedArrayQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscArrayQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MessagePassingQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpmcArrayQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpscGrowableArrayQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/spec/ConcurrentQueueSpec.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/AbstractEntry.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/WrappedUnpooledUnsafeDirectByteBuf.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/PreferHeapByteBufAllocator.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/smtp/DefaultSmtpResponse.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/dns/DnsOptEcsRecord.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/resolver/dns/DefaultDnsCache.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/http/websocketx/WebSocketChunkedInput.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/http2/DefaultHttp2GoAwayFrame.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/util/internal/PromiseNotificationUtil.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/DatagramPacketDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/utils/DefaultEventExecutorChooserFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/channel/kqueue/KQueueDatagramChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/channel/kqueue/AbstractKQueueServerChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/channel/kqueue/AbstractKQueueStreamChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/http2/Http2FrameStream.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/logging/CommonsLogger.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/logging/Log4JLogger.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/logging/InternalLogger.java

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jar/io/netty/handler/codem/http/HttpMessageDecoderResult.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/ unix/SegmentedDatagramPacket.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/OpenSslClientSessionCache.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/OpenSslContextOption.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/ epoll/SegmentedDatagramPacket.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionId.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionCache.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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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>

* 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>

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

This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field. The prepended header affects the \texttt{lengthFieldOffset} and the extra header affects the \texttt{lengthAdjustment}. We also specified a non-zero header from the frame. If you don't want to strip the prepended header, you could specify \texttt{0} for \texttt{initialBytesToSkip}.

\texttt{lengthFieldOffset} = 1 (\textit{the length of HDR1})
\texttt{lengthFieldLength} = 2
\texttt{lengthAdjustment} = 1 (\textit{the length of HDR2})
\texttt{initialBytesToStrip} = 3 (\textit{the length of HDR1 + LEN})

\begin{verbatim}
BEFORE DECODE (16 bytes)       AFTER DECODE (13 bytes)
+--------------+----------------------+
| HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
| 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
+--------------+----------------------+
\end{verbatim}

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 \texttt{lengthAdjustment}. Please note that we don't need to take the length of HDR2 into account because the length field already includes the whole header length.

\texttt{lengthFieldOffset} = 1
\texttt{lengthFieldLength} = 2
\texttt{lengthAdjustment} = -3 (\textit{the length of HDR1 + LEN}, negative)
\texttt{initialBytesToStrip} = 3

\begin{verbatim}
BEFORE DECODE (16 bytes)       AFTER DECODE (13 bytes)
+--------------+----------------------+
| HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
| 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
+--------------+----------------------+
\end{verbatim}

@see LengthFieldPrepender
Found in path(s):
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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  jar/io/netty/buffer/search/SearchProcessorFactory.java
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  jar/io/netty/buffer/search/KmpSearchProcessorFactory.java
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  jar/io/netty/example/http2/helloworld/frame/client/Http2ClientFrameInitializer.java
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  jar/io/netty/example/http2/helloworld/frame/client/Http2ClientStreamFrameResponseHandler.java
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  jar/io/netty/buffer/search/AbstractMultiSearchProcessorFactory.java
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  jar/io/netty/buffer/search/AbstractSearchProcessorFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/pcap/PcapWriteHandler.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/pcap/EthernetPacket.java
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Eclipse

The following artifacts are EPL.
  * org.eclipse.jetty.orbit.org.eclipse.jdt.core
The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

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

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

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

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

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

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

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

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Apache
The following artifacts are ASL2 licensed.

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

------
MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.1060 cpp 7.5.0 3ubuntu1~18.04

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This option is useful when you wish to copy part of the code of
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4. You may copy and distribute the Library (or a portion or
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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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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
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.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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@heading TERMS AND CONDITIONS

@enumerate 0
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* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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  * org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
  * org.eclipse.jetty.orbit:javax.security.auth.message

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  * org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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

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

-----
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

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

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OW2

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

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Apache

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

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MortBay

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

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.1069 x-crypto 0.0.0-20210421170649-83a5a9bb288b

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1.1070 go-yaml 3.0.0-20210107192922-496545a6307b

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1.1071 jackson-databind 2.12.6.1

1.1071.1 Available under license :

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It is currently developed by a community of developers.

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1.1072 zlib 1.2.8

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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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Metadata-Version: 1.0
Name: argparse
Version: 0.7.0
Summary: An optparse-inspired command-line parsing library
Home-page: http://argparse.python-hosting.com/
Author: Steven Bethard
Author-email: steven.bethard@gmail.com
License: BSD
Description: Argparse takes the best of the optparse command-line parsing module
    and brings it new life. Argparse adds positional as well as
    optional arguments, the ability to create parsers for sub-commands,
    more informative help and usage messages, and much more. At the
    same time, it retains the ease and flexibility of use that made
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Platform: UNKNOWN
Classifier: Development Status :: 3 - Alpha
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### 1.1079 jline 2.14.6

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### 1.1080 perl 5.26.1 6ubuntu0.5

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

---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>.'"
buildRequires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3
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The End
#

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.
If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
  skip_all("Not all files are available during cross- compilation");
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq ' --now')
{
  my $current_year = (gmtime)[5] + 1900;
  is $v_year, $current_year, 'perl -v copyright includes current year';
  is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
  is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
  open my $readme, '<', '../README' or die "Opening README failed: $!";

  # The copyright message is the first paragraph:
local $/ = "";
my $copyright_msg = <$readme>;

my ($year) = $copyright_msg =~ /.*\b\(\d{4,}\)/s
    or die "Year not found in README copyright message \'$copyright_msg\';

$year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /\bcopyright 1987.*\b\(\d{4,}\)/i
        or die "Copyright statement not found in perl -v output \'$output\'';

$year;
}

1.1081 open-ldap 2.4.45+dfsg-1ubuntu1.10
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1.1082 sysv-init 2.88dsf 59.10ubuntu1

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Send patches to sysvinit-devel@nongnu.org

The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>, public domain.

**1.1083 go-difflib 1.0.0**

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* /opt/cola/permits/1151781988_1617981760.17/0/netty-transport-native-unix-common-4-1-63-final-sources-jar/io/netty/channel/unix/package-info.java
* /opt/cola/permits/1151781988_1617981760.17/0/netty-transport-native-unix-common-4-1-63-final-sources-jar/io/netty/channel/unix/UnixChannelOption.java
* /opt/cola/permits/1151781988_1617981760.17/0/netty-transport-native-unix-common-4-1-63-final-sources-jar/io/netty/channel/unix/IovArray.java
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* /opt/cola/permits/1151781988_1617981760.17/0/netty-transport-native-unix-common-4-1-63-final-sources-jar/netty_unix.h

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* /opt/cola/permits/1151781988_1617981760.17/0/netty-transport-native-unix-common-4-1-63-final-sources-jar/netty_unix_buffer.c
* /opt/cola/permits/1151781988_1617981760.17/0/netty-transport-native-unix-common-4-1-63-final-sources-jar/io/netty/channel/unix/PreferredDirectByteBufAllocator.java
* /opt/cola/permits/1151781988_1617981760.17/0/netty-transport-native-unix-common-4-1-63-final-sources-jar/io/netty/channel/unix/Buffer.java
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* /opt/cola/permits/1151781988_1617981760.17/0/netty-transport-native-unix-common-4-1-63-final-sources.jar/io/netty/channel/unix/UnixChannelUtil.java
* /opt/cola/permits/1151781988_1617981760.17/0/netty-transport-native-unix-common-4-1-63-final-sources.jar/netty_unix_jni.h

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* /opt/cola/permits/1151781988_1617981760.17/0/netty-transport-native-unix-common-4-1-63-final-sources.jar/io/netty/channel/unix/UnixChannelUtil.java
* /opt/cola/permits/1151781988_1617981760.17/0/netty-transport-native-unix-common-4-1-63-final-sources.jar/io/netty/channel/unix/DomainSocketChannel.java
* /opt/cola/permits/1151781988_1617981760.17/0/netty-transport-native-unix-common-4-1-63-final-sources-jar/netty_unix_socket.c
* /opt/cola/permits/1151781988_1617981760.17/0/netty-transport-native-unix-common-4-1-63-final-sources-jar/io/netty/channel/unix/UnixChannel.java
* /opt/cola/permits/1151781988_1617981760.17/0/netty-transport-native-unix-common-4-1-63-final-sources-jar/netty_unix_socket.h
* /opt/cola/permits/1151781988_1617981760.17/0/netty-transport-native-unix-common-4-1-63-final-sources-jar/netty_unix_filedescriptor.c
* /opt/cola/permits/1151781988_1617981760.17/0/netty-transport-native-unix-common-4-1-63-final-sources-jar/io/netty/channel/unix/DomainSocketAddress.java
* /opt/cola/permits/1151781988_1617981760.17/0/netty-transport-native-unix-common-4-1-63-final-sources-jar/io/netty/channel/unix/Errors.java
* /opt/cola/permits/1151781988_1617981760.17/0/netty-transport-native-unix-common-4-1-63-final-sources-jar/io/netty/channel/unix/NativeInetAddress.java
* /opt/cola/permits/1151781988_1617981760.17/0/netty-transport-native-unix-common-4-1-63-final-sources-jar/io/netty/channel/unix/Socket.java
* /opt/cola/permits/1151781988_1617981760.17/0/netty-transport-native-unix-common-4-1-63-final-sources-jar/netty_unix_errors.h
* /opt/cola/permits/1151781988_1617981760.17/0/netty-transport-native-unix-common-4-1-63-final-sources-jar/io/netty/channel/unix/DomainSocketChannelConfig.java
* /opt/cola/permits/1151781988_1617981760.17/0/netty-transport-native-unix-common-4-1-63-final-sources-jar/io/netty/channel/unix/DomainSocketReadMode.java
* /opt/cola/permits/1151781988_1617981760.17/0/netty-transport-native-unix-common-4-1-63-final-sources-jar/io/netty/channel/unix/FileDescriptor.java
* /opt/cola/permits/1151781988_1617981760.17/0/netty-transport-native-unix-common-4-1-63-final-sources-jar/io/netty/channel/unix/DatagramSocketAddress.java
* /opt/cola/permits/1151781988_1617981760.17/0/netty-transport-native-unix-common-4-1-63-final-sources-jar/io/netty/channel/unix/ServerDomainSocketChannel.java
* /opt/cola/permits/1151781988_1617981760.17/0/netty-transport-native-unix-common-4-1-63-final-sources-jar/netty_unix_errors.c

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1.1087 mitchellh-copystructure 1.2.0

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1.1088 libalgorithm-diff-perl 1.19.03-1

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---

abstract: unknown
author:
- unknown
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.98, CPAN::Meta::Converter version 2.141170'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Algorithm-Diff
no_index:
directory:
  - t
  - inc
requires: {}
version: '1.1903'

Found in path(s):
* /opt/cola/permits/1136205540_1613708310.0/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/META.yml
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#!/usr/bin/perl -w
#
# `Diff' program in Perl
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
#
# This program is free software; you can redistribute it and/or modify it
# under the same terms as Perl itself.
#
# Altered to output in `context diff' format (but without context)
# September 1998 Christian Murphy (cpm@muc.de)
#
# Command-line arguments and context lines feature added
# September 1998 Amir D. Karger (karger@bead.aecom.yu.edu)
#
# In this file, "item" usually means "line of text", and "item number" usually
# means "line number". But theoretically the code could be used more generally
# use strict;

use Algorithm::Diff qw(diff);
use File::stat;
use vars qw ($opt_C $opt_c $opt_u $opt_U);
use Getopt::Std;
my $usage = << "ENDUSAGE";
Usage: $0 [-c | -u] [-C | -U] lines oldfile newfile
-c will do a context diff with 3 lines of context
-C will do a context diff with 'lines' lines of context
-u will do a unified diff with 3 lines of context
-U will do a unified diff with 'lines' lines of context
ENDUSAGE

g getopt('U:C:cu') or bag("Usage");
bag("Usage") unless @ARGV == 2;
my ($file1, $file2) = @ARGV;
if (defined $opt_C || defined $opt_c) {
    $opt_c = ""; # -c on if -C given on command line
    $opt_u = undef;
} elsif (defined $opt_U || defined $opt_u) {
    $opt_u = ""; # -u on if -U given on command line
    $opt_c = undef;
} else {
    $opt_c = ""; # by default, do context diff, not old diff
}

my ($char1, $char2); # string to print before file names
my $Context_Lines; # lines of context to print
if (defined $opt_c) {
    $Context_Lines = defined $opt_C ? $opt_C : 3;
    $char1 = '*' x 3; $char2 = '-' x 3;
} elsif (defined $opt_u) {
    $Context_Lines = defined $opt_U ? $opt_U : 3;
    $char1 = '-' x 3; $char2 = '+' x 3;
}

# After we've read up to a certain point in each file, the number of items
# we've read from each file will differ by $FLD (could be 0)
my $File_Length_Difference = 0;

open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
my (@f1, @f2);
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;

# diff yields lots of pieces, each of which is basically a Block object
my $diffs = diff(@f1, @f2);
exit 0 unless @$diffs;

my $st = stat($file1);
print "$char1 $file1\t", scalar localtime($st->mtime), "\n";
$st = stat($file2);
print "$char2 $file2\t", scalar localtime($st->mtime), "\n";
my ($hunk,$oldhunk);
# Loop over hunks. If a hunk overlaps with the last hunk, join them.
# Otherwise, print out the old one.
foreach my $piece (@$diffs) {
$hunk = new Hunk ($piece, $Context_Lines);
next unless $oldhunk;
if ($hunk->does_overlap($oldhunk)) {
$hunk->prepend_hunk($oldhunk);
} else {
$oldhunk->output_diff(\@f1, \@f2);
}
} continue {
$oldhunk = $hunk;
}
# print the last hunk
$oldhunk->output_diff(\@f1, \@f2);
exit 1;
# END MAIN PROGRAM
sub bag {
my $msg = shift;
$msg .= "\n";
warn $msg;
exit 2;
}
# Package Hunk. A Hunk is a group of Blocks which overlap because of the
# context surrounding each block. (So if we're not using context, every
# hunk will contain one block.)
{
package Hunk;
sub new {
# Arg1 is output from &LCS::diff (which corresponds to one Block)
# Arg2 is the number of items (lines, e.g.,) of context around each block
#
# This subroutine changes $File_Length_Difference
#
# Fields in a Hunk:
# blocks
- a list of Block objects
# start
- index in file 1 where first block of the hunk starts

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# end
- index in file 1 where last block of the hunk ends
#
# Variables:
# before_diff - how much longer file 2 is than file 1 due to all hunks
#
until but NOT including this one
# after_diff - difference due to all hunks including this one
my ($class, $piece, $context_items) = @_;
my $block = new Block ($piece); # this modifies $FLD!
my $before_diff = $File_Length_Difference; # BEFORE this hunk
my $after_diff = $before_diff + $block->{"length_diff"};
$File_Length_Difference += $block->{"length_diff"};
# @remove_array and @insert_array hold the items to insert and remove
# Save the start & beginning of each array. If the array doesn't exist
# though (e.g., we're only adding items in this block), then figure
# out the line number based on the line number of the other file and
# the current difference in file lengths
my @remove_array = $block->remove;
my @insert_array = $block->insert;
my ($a1, $a2, $b1, $b2, $start1, $start2, $end1, $end2);
$a1 = @remove_array ? $remove_array[0 ]->{"item_no"} : -1;
$a2 = @remove_array ? $remove_array[-1]->{"item_no"} : -1;
$b1 = @insert_array ? $insert_array[0 ]->{"item_no"} : -1;
$b2 = @insert_array ? $insert_array[-1]->{"item_no"} : -1;
$start1 = $a1 == -1 ? $b1 - $before_diff : $a1;
$end1 = $a2 == -1 ? $b2 - $after_diff : $a2;
$start2 = $b1 == -1 ? $a1 + $before_diff : $b1;
$end2 = $b2 == -1 ? $a2 + $after_diff : $b2;
# At first, a hunk will have just one Block in it
my $hunk = {
"start1" => $start1,
"start2" => $start2,
"end1" => $end1,
"end2" => $end2,
"blocks" => [$block],
};
bless $hunk, $class;
$hunk->flag_context($context_items);
return $hunk;
}
# Change the "start" and "end" fields to note that context should be added

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# to this hunk
sub flag_context {
    my ($hunk, $context_items) = @_; 
    return unless $context_items; # no context

    # add context before
    my $start1 = $hunk->"start1";
    my $num_added = $context_items > $start1 ? $start1 : $context_items;
    $hunk->"start1" -= $num_added;
    $hunk->"start2" -= $num_added;

    # context after
    my $end1 = $hunk->"end1";
    $num_added = ($end1+$context_items > $#f1) ? $#f1 - $end1 : $context_items;
    $hunk->"end1" += $num_added;
    $hunk->"end2" += $num_added;
}

# Is there an overlap between hunk arg0 and old hunk arg1?
# Note: if end of old hunk is one less than beginning of second, they overlap
sub does_overlap {
    my ($hunk, $oldhunk) = @_; 
    return "" unless $oldhunk; # first time through, $oldhunk is empty

    # Do I actually need to test both?
    return ($hunk->"start1" - $oldhunk->"end1" <= 1 ||
            $hunk->"start2" - $oldhunk->"end2" <= 1);
}

# Prepend hunk arg1 to hunk arg0
# Note that arg1 isn't updated! Only arg0 is.
sub prepend_hunk {
    my ($hunk, $oldhunk) = @_; 

    $hunk->"start1" = $oldhunk->"start1";
    $hunk->"start2" = $oldhunk->"start2";

    unshift @{$hunk->"blocks"}, @{$oldhunk->"blocks"};
}

# DIFF OUTPUT ROUTINES. THESE ROUTINES CONTAIN DIFF FORMATTING INFO...
sub output_diff {
    if (defined $main::opt_u) {&output_unified_diff(@_)}
    elsif (defined $main::opt_c) {&output_context_diff(@_)}
    else {die "unknown diff"}
}
sub output_unified_diff {  
my ($hunk, $fileref1, $fileref2) = @_;  
my @blocklist;  

# Calculate item number range.  
my $range1 = $hunk->unified_range(1);  
my $range2 = $hunk->unified_range(2);  
print "@@ -$range1 +$range2 @@\n";  

# Outlist starts containing the hunk of file 1.  
# Removing an item just means putting a '-' in front of it.  
# Inserting an item requires getting it from file2 and splicing it in.  
# We splice in $num_added items. Remove blocks use $num_added because  
# splicing changed the length of outlist.  
# We remove $num_removed items. Insert blocks use $num_removed because  
# their item numbers---corresponding to positions in file *2*---don't take  
# removed items into account.  
my $low = $hunk->{"start1"};  
my $hi = $hunk->{"end1"};  
my ($num_added, $num_removed) = (0,0);  
my @outlist = @$fileref1[$low..$hi];  
map {s/^/ /} @outlist; # assume it's just context

foreach my $block (@{$hunk->{"blocks"}}) {  
foreach my $item ($block->remove) {  
my $op = $item->{"sign"}; # -  
my $offset = $item->{"item_no"} - $low + $num_added;  
$outlist[$offset] =~ s/^/$op/;  
$num_removed++;  
}  
foreach my $item ($block->insert) {  
my $op = $item->{"sign"}; # +  
my $i = $item->{"item_no"};  
my $offset = $i - $hunk->{"start2"} + $num_removed;  
splice(@outlist,$offset,0,"$op\$fileref2[$i]"));  
$num_added++;  
}  
}  
map {s/$/
/} @outlist; # add \n's  
print @outlist;  

}

sub output_context_diff {  
my ($hunk, $fileref1, $fileref2) = @_;  

}
my @blocklist;

print "***************
# Calculate item number range.
my $range1 = $hunk->context_range(1);
my $range2 = $hunk->context_range(2);

# Print out file 1 part for each block in context diff format if there are
# any blocks that remove items
print "*** $range1 ****
my $low = $hunk->{'start1'};
my $hi = $hunk->{'end1'};
if (@blocklist = grep {$_->remove} @{$hunk->{'blocks'}}) {
  my @outlist = @$fileref1[$low..$hi];
  map {s/^/  /} @outlist; # assume it's just context
  foreach my $block (@blocklist) {
    my $op = $block->op; # - or !
    foreach my $item ($block->remove) {
      $outlist[$item->{'item_no'} - $low] =~ s/^ /$op/;
    }
  }
  map {s/$/
  } @outlist; # add \n's
  print @outlist;
}

print "--- $range2 ----
my $low = $hunk->{'start2'};
my $hi = $hunk->{'end2'};
if (@blocklist = grep {$_->insert} @{$hunk->{'blocks'}}) {
  my @outlist = @$fileref2[$low..$hi];
  map {s/^/  /} @outlist; # assume it's just context
  foreach my $block (@blocklist) {
    my $op = $block->op; # + or !
    foreach my $item ($block->insert) {
      $outlist[$item->{'item_no'} - $low] =~ s/^ /$op/;
    }
  }
  map {s/$/
  } @outlist; # add \n's
  print @outlist;
}

sub context_range {
  # Generate a range of item numbers to print. Only print 1 number if the range
  # has only one item in it. Otherwise, it's 'start,end'
  my ($hunk, $flag) = @_;;
  my ($start, $end) = ($hunk->{'start$flag'},$hunk->{'end$flag'});
  $start++; $end++;  # index from 1, not zero
}
my $range = ($start < $end) ? "$start,$end" : $end;
return $range;
}

sub unified_range {
  # Generate a range of item numbers to print for unified diff
  # Print number where block starts, followed by number of lines in the block
  # (don't print number of lines if it's 1)
  my ($hunk, $flag) = @_;
  my ($start, $end) = ($hunk->"start$flag", $hunk->"end$flag");
  $start++; $end++;  # index from 1, not zero
  my $length = $end - $start + 1;
  my $first = $length < 2 ? $end : $start; # strange, but correct...
  my $range = $length == 1 ? "$first,$length" : "$first,$length";
  return $range;
}
} # end Package Hunk

# Package Block. A block is an operation removing, adding, or changing
# a group of items. Basically, this is just a list of changes, where each
# change adds or deletes a single item.
# (Change could be a separate class, but it didn't seem worth it)
{
  package Block;
  sub new {
    # Input is a chunk from &Algorithm::LCS::diff
    # Fields in a block:
    # length_diff - how much longer file 2 is than file 1 due to this block
    # Each change has:
    # sign        - '+' for insert, '-' for remove
    # item_no     - number of the item in the file (e.g., line number)
    # We don't bother storing the text of the item
    
    my ($class,$chunk) = @_;;
    my $block = {
      "changes" => (),
    }
    # This just turns each change into a hash.
    foreach my $item (@$chunk) {
      my ($sign, $item_no, $text) = @$item;
      my $hashref = {"sign" => $sign, "item_no" => $item_no};
      push @{$changes}, $hashref;
    }
    my $block = { "changes" => 
    }
    bless $block, $class;
    $block->"length_diff" = $block->insert - $block->remove;
    return $block;
  }
}

}

# LOW LEVEL FUNCTIONS
sub op {
# what kind of block is this?
my $block = shift;
my $insert = $block->insert;
my $remove = $block->remove;
$remove && $insert and return '!';
$remove and return '-';
$insert and return '+';
warn "unknown block type";
return '^'; # context block
}
# Returns a list of the changes in this block that remove items
# (or the number of removals if called in scalar context)
sub remove { return grep {$_->{"sign"} eq '-'} @{shift->{"changes"}}; }
# Returns a list of the changes in this block that insert items
sub insert { return grep {$_->{"sign"} eq '+'} @{shift->{"changes"}}; }
} # end of package Block
Found in path(s):
* /opt/cola/permits/1136205540_1613708310.0/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff1.1903/cdiff.pl
No license file was found, but licenses were detected in source scan.
=head1 NAME
Algorithm::Diff - Compute `intelligent' differences between two files / lists
=head1 SYNOPSIS
require Algorithm::Diff;
# This example produces traditional 'diff' output:
my $diff = Algorithm::Diff->new( \@seq1, \@seq2 );
$diff->Base( 1 ); # Return line numbers, not indices
while( $diff->Next() ) {
next if $diff->Same();
my $sep = '';
if( ! $diff->Items(2) ) {

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printf "%d,%dd%d
",
    $diff->Get(qw( Min1 Max1 Max2 ));
} elsif( !$diff->Items(1) ) {
    printf "%d,%d,%d\n",
    $diff->Get(qw( Max1 Min2 Max2 ));
} else {
    $sep = "---\n";
    printf "%d,%d,%d,%d\n",
    $diff->Get(qw( Min1 Max1 Min2 Max2 ));
}
printf "< $_"   for  $diff->Items(1);
print $sep;
printf "> $_"   for  $diff->Items(2);?

# Alternate interfaces:

use Algorithm::Diff qw(
    LCS LCS_length LCSidx
    diff sdiff compact_diff
    traverse_sequences traverse_balanced );

@lcs    = LCS( \@seq1, \@seq2 );
$lcsref = LCS( \@seq1, \@seq2 );
$count  = LCS_length( \@seq1, \@seq2 );
( $seq1idxref, $seq2idxref ) = LCSidx( \@seq1, \@seq2 );

# Complicated interfaces:

@diffs  = diff( \@seq1, \@seq2 );

@sdiffs = sdiff( \@seq1, \@seq2 );

@cdiffs = compact_diff( \@seq1, \@seq2 );

traverse_sequences(
    \@seq1,
    \@seq2,
    {   MATCH     => \&callback1,
        DISCARD_A => \&callback2,
        DISCARD_B => \&callback3,
    },
    \&key_generator,
    \@extra_args,
);
traverse_balanced(
    \@seq1,
    \@seq2,
    {   MATCH     => \&callback1,
        DISCARD_A => \&callback2,
        DISCARD_B => \&callback3,
        CHANGE    => \&callback4,
    },
    \&key_generator,
    @extra_args,
);
It might seem from the example above that the LCS of two sequences is always pretty obvious, but that's not always the case, especially when the two sequences have many repeated elements. For example, consider

\[
\begin{align*}
  &a \ x \ b \ y \ c \ z \ p \ d \ q \\
  &a \ b \ c \ a \ x \ b \ y \ c \ z
\end{align*}
\]

A naive approach might start by matching up the C\textless{}a\textgreater{} and C\textless{}b\textgreater{} that appear at the beginning of each sequence, like this:

\[
\begin{align*}
  &a \ x \ b \ y \ c \ z \ p \ d \ q \\
  &a \ b \ c \ a \ x \ b \ y \ c \ z
\end{align*}
\]

This finds the common subsequence C\textless{}a \ b \ c \ z\textgreater{}. But actually, the LCS is C\textless{}a \ x \ b \ y \ c \ z\textgreater{}:

\[
\begin{align*}
  &a \ x \ b \ y \ c \ z \ p \ d \ q \\
  &a \ b \ c \ a \ x \ b \ y \ c \ z
\end{align*}
\]

or

\[
\begin{align*}
  &a \ x \ b \ y \ c \ z \ p \ d \ q \\
  &a \ b \ c \ a \ x \ b \ y \ c \ z
\end{align*}
\]

=head1 USAGE

(See also the README file and several example scripts include with this module.)

This module now provides an object-oriented interface that uses less memory and is easier to use than most of the previous procedural interfaces. It also still provides several exportable functions. We'll deal with these in ascending order of difficulty: C\textless{}LCS\textgreater{}, C\textless{}LCS\_length\textgreater{}, C\textless{}LCS\_idx\textgreater{}, OO interface, C\textless{}prepare\textgreater{}, C\textless{}diff\textgreater{}, C\textless{}sdiff\textgreater{}, C\textless{}traverse\_sequences\textgreater{}, and C\textless{}traverse\_balanced\textgreater{}.

=head2 C\textless{}LCS\textgreater{}

Given references to two lists of items, LCS returns an array containing their longest common subsequence. In scalar context, it returns a reference to such a list.

\[
\begin{align*}
  @lcs &= LCS( \langle\text{seq1}, \text{seq2}\rangle ) \\
  \$lcsref &= LCS( \langle\text{seq1}, \text{seq2}\rangle )
\end{align*}
\]

C\textless{}LCS\textgreater{} may be passed an optional third parameter; this is a CODE reference to a key generation function. See L\textless{}KEY GENERATION\_FUNCTIONS\textgreater{}.
@lcs  = LCS( \@seq1, \@seq2, \&keyGen, @args );
$lcsrc = LCS( \@seq1, \@seq2, \&keyGen, @args );

Additional parameters, if any, will be passed to the key generation routine.

=head2 C<LCS_length>

This is just like C<LCS> except it only returns the length of the longest common subsequence. This provides a performance gain of about 9% compared to C<LCS>.

=head2 C<LCSidx>

Like C<LCS> except it returns references to two arrays. The first array contains the indices into @seq1 where the LCS items are located. The second array contains the indices into @seq2 where the LCS items are located.

Therefore, the following three lists will contain the same values:

my( $idx1, $idx2 ) = LCSidx( \@seq1, \@seq2 );
my @list1 = @seq1[ @$idx1 ];
my @list2 = @seq2[ @$idx2 ];
my @list3 = LCS( \@seq1, \@seq2 );

=head2 C<new>

$diff = Algorithm::Diffs->new( \@seq1, \@seq2 );
$diff = Algorithm::Diffs->new( \@seq1, \@seq2, %opts );

C<new> computes the smallest set of additions and deletions necessary to turn the first sequence into the second and compactly records them in the object.

You use the object to iterate over I<hunks>, where each hunk represents a contiguous section of items which should be added, deleted, replaced, or left unchanged.

=over 4

The following summary of all of the methods looks a lot like Perl code but some of the symbols have different meanings:

[ ]  Encloses optional arguments
    :    Is followed by the default value for an optional argument
    |    Separates alternate return results
Method summary:

```perl
$obj     = Algorithm::Diff->new( \@seq1, \@seq2, [ \%opts ] );
$pos     = $obj->Next( [ $count : 1 ] );
$revPos  = $obj->Prev( [ $count : 1 ] );
$obj     = $obj->Reset( [ $pos : 0 ] );
$copy    = $obj->Copy( [ $pos, [ $newBase ] ] );
$oldBase = $obj->Base( [ $newBase ] );
```

Note that all of the following methods `die` if used on an object that is "reset" (not currently pointing at any hunk).

```perl
<bits   = $obj->Diff( );
@items|$cnt = $obj->Same( );
@items|$cnt = $obj->Items( $seqNum );
@idxs  $cnt = $obj->Range( $seqNum, [ $base ] );
$minIdx = $obj->Min( $seqNum, [ $base ] );
$maxIdx = $obj->Max( $seqNum, [ $base ] );
@values = $obj->Get( @names );
```

Passing in C<undef> for an optional argument is always treated the same as if no argument were passed in.

=item C<Next>

```perl
$pos = $diff->Next();    # Move forward 1 hunk
$pos = $diff->Next( 2 ); # Move forward 2 hunks
$pos = $diff->Next(-5);  # Move backward 5 hunks
```

C<Next> moves the object to point at the next hunk. The object starts out "reset", which means it isn't pointing at any hunk. If the object is reset, then C<Next()> moves to the first hunk.

C<Next> returns a true value iff the move didn't go past the last hunk. So C<Next(0)> will return true iff the object is not reset.

Actually, C<Next> returns the object's new position, which is a number between 1 and the number of hunks (inclusive), or returns a false value.

=item C<Prev>

C<Prev($N)> is almost identical to C<Next(-$N)>; it moves to the $Nth previous hunk. On a 'reset' object, C<Prev()> [and C<Next(-1)>] move to the last hunk.

The position returned by C<Prev> is relative to the I<end> of the hunks; -1 for the last hunk, -2 for the second-to-last, etc.
=item C<Reset>

$diff->Reset();   # Reset the object's position  
$diff->Reset($pos); # Move to the specified hunk  
$diff->Reset(1);   # Move to the first hunk  
$diff->Reset(-1);  # Move to the last hunk  

C<Reset> returns the object, so, for example, you could use  
C<< $diff->Reset()->Next(-1) >> to get the number of hunks.

=item C<Copy>

$copy = $diff->Copy( $newPos, $newBase );

C<Copy> returns a copy of the object. The copy and the original object  
share most of their data, so making copies takes very little memory.  
The copy maintains its own position (separate from the original), which  
is the main purpose of copies. It also maintains its own base.

By default, the copy's position starts out the same as the original  
object's position. But C<Copy> takes an optional first argument to set the  
ew position, so the following three snippets are equivalent:

$copy = $diff->Copy($pos);
$copy = $diff->Copy();  
$copy->Reset($pos);

$copy = $diff->Copy()->Reset($pos);

C<Copy> takes an optional second argument to set the base for  
the copy. If you wish to change the base of the copy but leave  
the position the same as in the original, here are two  
equivalent ways:

$copy = $diff->Copy();  
$copy->Base( 0 );

$copy = $diff->Copy(undef,0);

Here are two equivalent way to get a "reset" copy:

$copy = $diff->Copy(0);

$copy = $diff->Copy()->Reset();

=item C<Diff>
$bits = $obj->Diff();

C<Diff> returns a true value iff the current hunk contains items that are
different between the two sequences. It actually returns one of the
follow 4 values:

=over 4

=item 3

C<3==(1|2)>. This hunk contains items from @seq1 and the items
from @seq2 that should replace them. Both sequence 1 and 2
contain changed items so both the 1 and 2 bits are set.

=item 2

This hunk only contains items from @seq2 that should be inserted (not
items from @seq1). Only sequence 2 contains changed items so only the 2
bit is set.

=item 1

This hunk only contains items from @seq1 that should be deleted (not
items from @seq2). Only sequence 1 contains changed items so only the 1
bit is set.

=item 0

This means that the items in this hunk are the same in both sequences.
Neither sequence 1 nor 2 contain changed items so neither the 1 nor the
2 bits are set.

=back

=item C<Same>

C<Same> returns a true value iff the current hunk contains items that
are the same in both sequences. It actually returns the list of items
if they are the same or an empty list if they aren't. In a scalar
context, it returns the size of the list.

=item C<Items>

$count = $diff->Items(2);
@items = $diff->items($seqNum);

C<Items> returns the (number of) items from the specified sequence that
are part of the current hunk.
If the current hunk contains only insertions, then 
\texttt{C<< $diff->Items(1) >>} will return an empty list (0 in a scalar context).
If the current hunk contains only deletions, then \texttt{C<< $diff->Items(2) >>} will return an empty list (0 in a scalar context).

If the hunk contains replacements, then both \texttt{C<< $diff->Items(1) >>} and \texttt{C<< $diff->Items(2) >>} will return different, non-empty lists.

Otherwise, the hunk contains identical items and all of the following will return the same lists:

\begin{verbatim}
@items = $diff->Items(1);
@items = $diff->Items(2);
@items = $diff->Same();
\end{verbatim}

\item \texttt{C<Range>}

\begin{verbatim}
$count = $diff->Range( $seqNum );
@indices = $diff->Range( $seqNum );
@indices = $diff->Range( $seqNum, $base );
\end{verbatim}

\texttt{C<Range>} is like \texttt{C<Items>} except that it returns a list of \texttt{I<indices>} to the items rather than the items themselves. By default, the index of the first item (in each sequence) is 0 but this can be changed by calling the \texttt{C<Base>} method. So, by default, the following two snippets return the same lists:

\begin{verbatim}
@list = $diff->Items(2);
@list = @seq2[ $diff->Range(2) ];
\end{verbatim}

You can also specify the base to use as the second argument. So the following two snippets \texttt{I<always>} return the same lists:

\begin{verbatim}
@list = $diff->Items(1);
@list = @seq1[ $diff->Range(1,0) ];
\end{verbatim}

\item \texttt{C<Base>}

\begin{verbatim}
$curBase = $diff->Base();
$oldBase = $diff->Base($newBase);
\end{verbatim}

\texttt{C<Base>} sets and/or returns the current base (usually 0 or 1) that is used when you request range information. The base defaults to 0 so that range information is returned as array indices. You can set the base to 1 if you want to report traditional line numbers instead.

\item \texttt{C<Min>}

$min1 = $diff->Min(1);
$min = $diff->Min( $seqNum, $base );

C<Min> returns the first value that C<Range> would return (given the same arguments) or returns C<undef> if C<Range> would return an empty list.

=item C<Max>

C<Max> returns the last value that C<Range> would return or C<undef>.

=item C<Get>

( $n, $x, $r ) = $diff->Get(qw( min1 max1 range1 ));
@values = $diff->Get(qw( 0min2 1max2 range2 same base ));

C<Get> returns one or more scalar values. You pass in a list of the names of the values you want returned. Each name must match one of the following regexes:

/^-?[0-9]+(min|max)[12]$/i
/^(range[12]|same|diff|base)$/i

The 1 or 2 after a name says which sequence you want the information for (and where allowed, it is required). The optional number before "min" or "max" is the base to use. So the following equalities hold:

$diff->Get('min1') == $diff->Min(1)
$diff->Get('0min2') == $diff->Min(2,0)

Using C<Get> in a scalar context when you've passed in more than one name is a fatal error (C<die> is called).

=back

=head2 C<prepare>

Given a reference to a list of items, C<prepare> returns a reference to a hash which can be used when comparing this sequence to other sequences with C<LCS> or C<LCS_length>.

$prep = prepare( \@seq1 );
for $i ( 0 .. 10_000 )
{
    @lcs = LCS( $prep, $seq[$i] );
    # do something useful with @lcs
}
$prep = \text{prepare}(\@seq1, \&\text{keyGen});$

\text{for } i (0 \ldots 10_000) \{$
  \@lcs = \text{LCS}(\$seq[i], \$prep, \&\text{keyGen});$
  \text{# do something useful with } \@lcs$
\}$

Using \text{prepare} provides a performance gain of about 50\% when calling LCS many times compared with not preparing.

\text{=head2 prepare} \text{diff} \text{super} \text{extract} \text{update} \text{modify} \text{prepare}$

@diffs = \text{diff}(\@seq1, \@seq2);
$\text{diffs}_\text{ref} = \text{diff}(\@seq1, \@seq2);$

\text{diff} computes the smallest set of additions and deletions necessary to turn the first sequence into the second, and returns a description of these changes. The description is a list of I<hunks>; each hunk represents a contiguous section of items which should be added, deleted, or replaced. (Hunks containing unchanged items are not included.)

The return value of \text{diff} is a list of hunks, or, in scalar context, a reference to such a list. If there are no differences, the list will be empty.

Here is an example. Calling \text{diff} for the following two sequences:

\begin{verbatim}
a b c e h j l m n p
b c d e f j k l m r s t
\end{verbatim}

would produce the following list:

\begin{verbatim}
(    
[ [ '-', 0, 'a' ] ],
[ [ '+', 2, 'd' ] ],
[ [ '-', 4, 'h' ],
  [ '+', 4, 'f' ] ],
[ [ '+', 6, 'k' ] ],
(    
\end{verbatim}
[ [ '-', 8, 'n' ],
[ '-', 9, 'p' ],
[ '+', 9, 'r' ],
[ '+', 10, 's' ],
[ '+', 11, 't' ] ],
)
There are five hunks here. The first hunk says that the C<a> at
position 0 of the first sequence should be deleted (C<->). The second
hunk says that the C<d> at position 2 of the second sequence should
be inserted (C<+>). The third hunk says that the C<h> at position 4
of the first sequence should be removed and replaced with the C<f>
from position 4 of the second sequence. And so on.
C<diff> may be passed an optional third parameter; this is a CODE
reference to a key generation function. See L</KEY GENERATION
FUNCTIONS>.
Additional parameters, if any, will be passed to the key generation
routine.
=head2 C<sdiff>
@sdiffs = sdiff( \@seq1, \@seq2 );
$sdiffs_ref = sdiff( \@seq1, \@seq2 );
C<sdiff> computes all necessary components to show two sequences
and their minimized differences side by side, just like the
Unix-utility I<sdiff> does:
same
same
before | after
old
< > new
It returns a list of array refs, each pointing to an array of
display instructions. In scalar context it returns a reference
to such a list. If there are no differences, the list will have one
entry per item, each indicating that the item was unchanged.
Display instructions consist of three elements: A modifier indicator
(C<+>: Element added, C<->: Element removed, C<u>: Element unmodified,
C<c>: Element changed) and the value of the old and new elements, to
be displayed side-by-side.
An C<sdiff> of the following two sequences:
abcehjlmnp

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results in

( [ '-', 'a', '' ],
[ 'u', 'b', 'b' ],
[ 'u', 'c', 'c' ],
[ '+', '',  'd' ],
[ 'u', 'e', 'e' ],
[ 'c', 'h', 'f' ],
[ 'u', 'j', 'j' ],
[ '+', '',  'k' ],
[ 'u', 'l', 'l' ],
[ 'u', 'm', 'm' ],
[ 'c', 'n', 'r' ],
[ 'c', 'p', 's' ],
[ '+', '',  't' ],
[ 'u', 'T', 'T' ],
[ 'u', 'm', 'm' ],
[ 'c', 'n', 'r' ],
[ 'c', 'p', 's' ],
[ '+', '',  'T' ],
)

C<sdiff> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation routine.

=head2 C<compact_diff>

C<compact_diff> is much like C<sdiff> except it returns a much more compact description consisting of just one flat list of indices. An example helps explain the format:

my @a = qw( a b c e h j l m n p  );
my @b = qw( b c d e f j k l m r s t );
@cdiff = compact_diff( @a, @b );
# Returns:
#   @a      @b       @a       @b
#  start   start   values   values
#    0,      0,   #       =
#    0,      0,   #     a !
#    1,      0,   #     bc = bc
#    3,      2,   #     ! d
#    3,      3,   #     e = e
#    4,      4,   #     f ! h
#    5,      5,   #     j = j
#    6,      6,   #     k
#    6,      7,   #     lm = lm
#    8,      9,   #     np ! rst

```
The 0th, 2nd, 4th, etc. entries are all indices into @seq1 (@a in the above example) indicating where a hunk begins. The 1st, 3rd, 5th, etc. entries are all indices into @seq2 (@b in the above example) indicating where the same hunk begins.

So each pair of indices (except the last pair) describes where a hunk begins (in each sequence). Since each hunk must end at the item just before the item that starts the next hunk, the next pair of indices can be used to determine where the hunk ends.

So, the first 4 entries (0..3) describe the first hunk. Entries 0 and 1 describe where the first hunk begins (and so are always both 0). Entries 2 and 3 describe where the next hunk begins, so subtracting 1 from each tells us where the first hunk ends. That is, the first hunk contains items C<$diff[0]$> through C<$diff[2] - 1$> of the first sequence and contains items C<$diff[1]$> through C<$diff[3] - 1$> of the second sequence.

In other words, the first hunk consists of the following two lists of items:

```perl
@list1 = @a[ $cdiff[0] .. $cdiff[2]-1 ];
@list2 = @b[ $cdiff[1] .. $cdiff[3]-1 ];
```

Note that the hunks will always alternate between those that are part of the LCS (those that contain unchanged items) and those that contain changes. This means that all we need to be told is whether the first hunk is a ‘same’ or ‘diff’ hunk and we can determine which of the other hunks contain ‘same’ items or ‘diff’ items.

By convention, we always make the first hunk contain unchanged items. So the 1st, 3rd, 5th, etc. hunks (all odd-numbered hunks if you start counting from 1) all contain unchanged items. And the 2nd, 4th, 6th, etc. hunks (all even-numbered hunks if you start counting from 1) all contain changed items.

Since @a and @b don't begin with the same value, the first hunk in our example is empty (otherwise we'd violate the above convention). Note that the first 4 index values in our example are all zero. Plug these values into our previous code block and we get:

```perl
@hunk1a = @a[ 0 .. 0-1 ];
@hunk1b = @b[ 0 .. 0-1 ];
```
And $C_{0..-1}$ returns the empty list.

Move down one pair of indices (2..5) and we get the offset ranges for the second hunk, which contains changed items.

Since $C_{\text{@diff}[2..5]}$ contains (0,0,1,0) in our example, the second hunk consists of these two lists of items:

```perl
@hunk2a = @a[ $cdiff[2] .. $cdiff[4]-1 ];
@hunk2b = @b[ $cdiff[3] .. $cdiff[5]-1 ];
# or
@hunk2a = @a[ 0 .. 1-1 ];
@hunk2b = @b[ 0 .. 0-1 ];
# or
@hunk2a = @a[ 0 .. 0 ];
@hunk2b = @b[ 0 .. -1 ];
# or
@hunk2a = ( 'a' );
@hunk2b = ( );
```

That is, we would delete item 0 (‘a’) from @a.

Since $C_{\text{@diff}[4..7]}$ contains (1,0,3,2) in our example, the third hunk consists of these two lists of items:

```perl
@hunk3a = @a[ $cdiff[4] .. $cdiff[6]-1 ];
@hunk3b = @b[ $cdiff[5] .. $cdiff[7]-1 ];
# or
@hunk3a = @a[ 1 .. 3-1 ];
@hunk3b = @b[ 0 .. 2-1 ];
# or
@hunk3a = @a[ 1 .. 2 ];
@hunk3b = @b[ 0 .. 1 ];
# or
@hunk3a = qw( b c );
@hunk3b = qw( b c );
```

Note that this third hunk contains unchanged items as our convention demands.

You can continue this process until you reach the last two indices, which will always be the number of items in each sequence. This is required so that subtracting one from each will give you the indices to the last items in each sequence.

=head2 C<traverse_sequences>

C<traverse_sequences> used to be the most general facility provided by
Imagine that there are two arrows. Arrow A points to an element of sequence A, and arrow B points to an element of the sequence B. Initially, the arrows point to the first elements of the respective sequences. `C<traverse_sequences>` will advance the arrows through the sequences one element at a time, calling an appropriate user-specified callback function before each advance. It will advance the arrows in such a way that if there are equal elements `C<A[$i]>` and `C<B[$j]>` which are equal and which are part of the LCS, there will be some moment during the execution of `C<traverse_sequences>` when arrow A is pointing to `C<A[$i]>` and arrow B is pointing to `C<B[$j]>`. When this happens, `C<traverse_sequences>` will call the `C<MATCH>` callback function and then it will advance both arrows.

Otherwise, one of the arrows is pointing to an element of its sequence that is not part of the LCS. `C<traverse_sequences>` will advance that arrow and will call the `C<DISCARD_A>` or the `C<DISCARD_B>` callback, depending on which arrow it advanced. If both arrows point to elements that are not part of the LCS, then `C<traverse_sequences>` will advance one of them and call the appropriate callback, but it is not specified which it will call.

The arguments to `C<traverse_sequences>` are the two sequences to traverse, and a hash which specifies the callback functions, like this:

```
traverse_sequences(
    \@seq1, \@seq2,
    {   MATCH => $callback_1,
        DISCARD_A => $callback_2,
        DISCARD_B => $callback_3,
    }
);
```

Callbacks for MATCH, DISCARD_A, and DISCARD_B are invoked with at least the indices of the two arrows as their arguments. They are not expected to return any values. If a callback is omitted from the table, it is not called.

Callbacks for A_FINISHED and B_FINISHED are invoked with at least the corresponding index in A or B.

If arrow A reaches the end of its sequence, before arrow B does, `C<traverse_sequences>` will call the `C<A_FINISHED>` callback when it advances arrow B, if there is such a function; if not it will call `C<DISCARD_B>` instead. Similarly if arrow B finishes first, `C<traverse_sequences>` returns when both arrows are at the ends of their
respective sequences. It returns true on success and false on failure.
At present there is no way to fail.

C<traverse_sequences> may be passed an optional fourth parameter; this
is a CODE reference to a key generation function. See L</KEY GENERATION
FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation function.

If you want to pass additional parameters to your callbacks, but don't
need a custom key generation function, you can get the default by
passing undef:

traverse_sequences(
  \@seq1, \@seq2,
  {   MATCH => $callback_1,
      DISCARD_A => $callback_2,
      DISCARD_B => $callback_3,
  },
  undef,  # default key-gen
  $myArgument1,
  $myArgument2,
  $myArgument3,
);

C<traverse_sequences> does not have a useful return value; you are
expected to plug in the appropriate behavior with the callback
functions.

=head2 C<traverse_balanced>

C<traverse_balanced> is an alternative to C<traverse_sequences>. It
uses a different algorithm to iterate through the entries in the
computed LCS. Instead of sticking to one side and showing element changes
as insertions and deletions only, it will jump back and forth between
the two sequences and report I<changes> occurring as deletions on one
side followed immediately by an insertion on the other side.

In addition to the C<DISCARD_A>, C<DISCARD_B>, and C<MATCH> callbacks
supported by C<traverse_sequences>, C<traverse_balanced> supports
a C<CHANGE> callback indicating that one element got C<replaced> by another:

traverse_balanced(
  \@seq1, \@seq2,
  {   MATCH => $callback_1,
      DISCARD_A => $callback_2,
      DISCARD_B => $callback_3,
      CHANGE  => $callback_4,
If no C<CHANGE> callback is specified, C<traverse_balanced> will map C<CHANGE> events to C<DISCARD_A> and C<DISCARD_B> actions, therefore resulting in a similar behaviour as C<traverse_sequences> with different order of events.

C<traverse_balanced> might be a bit slower than C<traverse_sequences>, noticeable only while processing huge amounts of data.

The C<sdiff> function of this module is implemented as call to C<traverse_balanced>.

C<traverse_balanced> does not have a useful return value; you are expected to plug in the appropriate behavior with the callback functions.

=head1 KEY GENERATION FUNCTIONS

Most of the functions accept an optional extra parameter. This is a CODE reference to a key generating (hashing) function that should return a string that uniquely identifies a given element. It should be the case that if two elements are to be considered equal, their keys should be the same (and the other way around). If no key generation function is provided, the key will be the element as a string.

By default, comparisons will use "eq" and elements will be turned into keys using the default stringizing operator """.

Where this is important is when you're comparing something other than strings. If it is the case that you have multiple different objects that should be considered to be equal, you should supply a key generation function. Otherwise, you have to make sure that your arrays contain unique references.

For instance, consider this example:

```
package Person;

sub new
{
    my $package = shift;
    return bless { name => ", ssn => ", @_ }, $package;
}

sub clone
{
    my $old = shift;
```

my $new = bless { %$old }, ref($old);
}

sub hash
{
    return shift()->{'ssn'};
}

my $person1 = Person->new( name => 'Joe', ssn => '123-45-6789' );
my $person2 = Person->new( name => 'Mary', ssn => '123-47-0000' );
my $person3 = Person->new( name => 'Pete', ssn => '999-45-2222' );
my $person4 = Person->new( name => 'Peggy', ssn => '123-45-9999' );
my $person5 = Person->new( name => 'Frank', ssn => '000-45-9999' );

If you did this:

my $array1 = [ $person1, $person2, $person4 ];
my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
Algorithm::Diff::diff( $array1, $array2 );

everything would work out OK (each of the objects would be converted into a string like "Person=HASH(0x82425b0)" for comparison).

But if you did this:

my $array1 = [ $person1, $person2, $person4 ];
my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
Algorithm::Diff::diff( $array1, $array2 );

$person4 and $person4->clone() (which have the same name and SSN) would be seen as different objects. If you wanted them to be considered equivalent, you would have to pass in a key generation function:

my $array1 = [ $person1, $person2, $person4 ];
my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
Algorithm::Diff::diff( $array1, $array2, \&Person::hash );

This would use the 'ssn' field in each Person as a comparison key, and so would consider $person4 and $person4->clone() as equal.

You may also pass additional parameters to the key generation function if you wish.

=head1 ERROR CHECKING

If you pass these routines a non-reference and they expect a reference, they will die with a message.
This version released by Tye McQueen (http://perlmonks.org/?node=tye).

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This program is free software; you can redistribute it and/or modify it
under the same terms as Perl.

Mark-Jason still maintains a mailing list. To join a low-volume mailing
list for announcements related to diff and Algorithm::Diff, send an
empty mail message to mjd-perl-diff-request@plover.com.

Versions through 0.59 (and much of this documentation) were written by:

Mark-Jason Dominus, mjd-perl-diff@plover.com

This version borrows some documentation and routine names from
Mark-Jason's, but Diff.pm's code was completely replaced.

This code was adapted from the Smalltalk code of Mario Wolczko
<mario@wolczko.com>, which is available at
ftp://st.cs.uiuc.edu/pub/Smalltalk/MANCHESTER/manchester/4.0/diff.st

C<sdiff> and C<traverse_balanced> were written by Mike Schilli
<m@perlmeister.com>.

The algorithm is that described in
I<A Fast Algorithm for Computing Longest Common Subsequences>,
CACM, vol.20, no.5, pp.350-353, May 1977, with a few
minor improvements to improve the speed.

Much work was done by Ned Konz (perl@bike-nomad.com).

The OO interface and some other changes are by Tye McQueen.

Found in path(s):
* /opt/cola/permits/1136205540_1613708310.0/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/lib/Algorithm/Diff.pm
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1136205540_1613708310.0/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/diffnew.pl
No license file was found, but licenses were detected in source scan.

#!/usr/bin/perl
#
#
# `Diff' program in Perl
#
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
#
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#
use Algorithm::Diff qw(diff);

bag("Usage: $0 oldfile newfile") unless @ARGV == 2;

my ($file1, $file2) = @ARGV;

# -f $file1 or bag("$file1: not a regular file");
# -f $file2 or bag("$file2: not a regular file");

-T $file1 or bag("$file1: binary");
-T $file2 or bag("$file2: binary");

open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;

$diffs = diff(@f1, @f2);
exit 0 unless @$diffs;

foreach $chunk (@$diffs) {
  foreach $line (@$chunk) {
    my ($sign, $lineno, $text) = @$line;
    printf "%4d$sign %s\n", $lineno+1, $text;
  }
  print "--------\n";
}
exit 1;

sub bag {
    my $msg = shift;
    $msg .= "\n";
    warn $msg;
    exit 2;
}

Found in path(s):
* /opt/cola/permits/1136205540_1613708310.0/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/diff.pl

1.1089 mergo 0.3.12

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import: ../../../../fossene/db/schema/thing.yml

fields:
1.1090 dropwizard-validation 1.3.29
1.1090.1 Available under license:
No license file was found, but licenses were detected in source scan.

/*
 * Hibernate Validator, declare and validate application constraints
 * License: Apache License, Version 2.0
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 */

Found in path(s):
* /opt/cola/permits/1258291633_1643053079.55/0/dropwizard-validation-1-3-29-sources-jar/io/dropwizard/validation/InterpolationHelper.java

1.1091 coreos-bbolt 1.3.4
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1.1092 kustomize-api 0.10.1

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/************************************************************************
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)

*/

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

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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That's all there is to it!

1.1096 libjpeg 6b
1.1096.1 Notifications :
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1.1096.2 Available under license :
The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998
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Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.
This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge’ Weijers, and other members of the Independent JPEG Group.

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DOCUMENTATION ROADMAP

This file contains the following sections:

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

Other documentation files in the distribution are:

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

Programmer and internal documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

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

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

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

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

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

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

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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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
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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.

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

ARCHIVE LOCATIONS

The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

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

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

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers
Related Software
================

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

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.

Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

File Format Wars
================

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

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

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This package was debianized by Thom May <thom@debian.org> on Wed, 17 Nov 2004 11:27:14 -0800

It was downloaded from http://httpd.apache.org/download.cgi

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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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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- javaee_6.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
- web-fragment_3_1.xsd
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**1.1106 tomcat-coyote 9.0.63**

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