Open Source Used In NYAT 0.8

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   Upstream-Name: libxml2
   Source: ftp://xmlsoft.org/libxml2/
   Files-Excluded:
      result
test
   Comment:
      Bug about the removal of the above directories: https://bugs.debian.org/331534

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File::FcntlLock

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 Perls flock() function is based per default.

Since version 0.15 there 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. wih 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::FcntlLock::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.

AUTHOR

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

This text also documents the following sub-packages:

=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: $!
"
$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";

=head1 DESCRIPTION

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<i_type> property is set to C<F_RDLCK>,
L<i_whence> to C<SEEK_SET>, and both L<i_start> and L<i_len> to 0,
i.e., the settings for a read lock on the whole file.

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

$sfs = 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.

=back

=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<i_whence>
property of the flock object, determining if the L<i_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<iseek(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<i_whence> member. See also
the man page for L<iseek(2)>.
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 \texttt{C<l_start>}, to the end of the file. E.g., a lock obtained with \texttt{L<l_whence>} set to \texttt{C<SEEK_SET>} and both \texttt{L<l_start>} and \texttt{L<l_len>} set to 0 locks the complete file.

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

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

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

\begin{verbatim}$fs->lock( $fh, F_SETLK );\end{verbatim}

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

\begin{verbatim}$fs->lock( $fh, F_SETLK );\end{verbatim}
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.

=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 the a call of the L<lock()> method failed:

=over 4
=item C<lock_errno()>

Returns the C<errno> error number from the latest call of L<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 L<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 L<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.

=back

=head2 EXPORT

The package exports the following constants:

=over 2
=item F_GETLK F_SETLK F_SETLKW
=item F_RDLCK F_WRLCK F_UNLCK
=item SEEK_SET SEEK_CUR SEEK_END
=back
=head1 INCOMPATIBILITIES

Obviously, this module requires that there's a L<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 C<pack> and C<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 L<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

L<perl(1)>, L<fcntl(2)>, L<lseek(2)>.

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1.8 python-zipp 1.0.0-1

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1.9 npth 1.6 1

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

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### 1.16.1 Available under license:

```
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1.18 libpng 1.6.37 2

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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
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@example
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@end example
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@end smallexample

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This is the Debian GNU/Linux prepackaged version of the GNU compiler collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C, Objective-C++, and Modula-2 compilers, documentation, and support libraries. In addition, Debian provides the gm2 compiler, either in the same source package, or built from a separate same source package. Packaging is done by the Debian GCC Maintainers <debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/  (for full releases)
svn://gcc.gnu.org/svn/gcc/  (for prereleases)
ftp://sourceware.org/pub/newlib/  (for newlib)
git://git.savannah.gnu.org/gm2.git  (for Modula-2)

The current gcc-9 source package is taken from the SVN gcc-9-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

<table>
<thead>
<tr>
<th>Language</th>
<th>Compiler package</th>
<th>Library package</th>
<th>Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ada</td>
<td>gnat-9</td>
<td>libgnat-9</td>
<td>gnat-9-doc</td>
</tr>
<tr>
<td>BRIG</td>
<td>gccbrig-9</td>
<td>libhsail-rt0</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>gcc-9</td>
<td>gcc-9-doc</td>
<td></td>
</tr>
<tr>
<td>C++</td>
<td>g++-9</td>
<td>libstdc++6</td>
<td>libstdc++6-9-doc</td>
</tr>
<tr>
<td>D</td>
<td>gdc-9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fortran 95</td>
<td>gfortran-9</td>
<td>libgfortran3</td>
<td>gfortran-9-doc</td>
</tr>
</tbody>
</table>
Go            gccgo-9         libgo0
Objective C   objc-9           libobjc2
Objective C++ gobjc++-9
Modula-2      gm2-9            libgm2

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

<table>
<thead>
<tr>
<th>Language</th>
<th>Sources</th>
<th>Development</th>
<th>Debugging</th>
<th>Position-Independent</th>
</tr>
</thead>
<tbody>
<tr>
<td>C++</td>
<td>libstdc++-6-9-dbg</td>
<td>libstdc++-6-9-pic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>libphobos-9-dev</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Additional packages include:

All languages:
libgcc1, libgcc2, libgcc4       GCC intrinsics (platform-dependent)
gcc-9-base                    Base files common to all compilers
gcc-9-soft-float              Software floating point (ARM only)
gcc-9-source                   The sources with patches

Ada:
libgnatvsn-dev, libgnatvsn9   GNAT version library

C:
cpp-9, cpp-9-doc            GNU C Preprocessor
libssp0-dev, libssp0        GCC stack smashing protection library
libquadmath0                  Math routines for the __float128 type
fixincludes                   Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1GCC OpenMP (GOMP) support library
libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libdecrement
- libgomp
- libitm
- libssp
- libstdc++-v3
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ldexpq.c:

* Conversion to long double by Ulrich Drepper,
* Cygnus Support, drepper@cygnus.com.

cosq_kernel.c, expq.c, sincos_table.c, sincosq.c, sincosq_kernel.c,
sinq_kernel.c, truncq.c:

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iconv (Charset Conversion Library) v2.0

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1.25 libperl5.30 5.30.0-9ubuntu0.2

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1.26 ca-certificates 20210119~20.04.2

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DRuntime: Runtime Library for the D Programming Language
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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.

@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
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.

@item
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.

@end enumerate

A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

A ``User Product'' is either (1) a ``consumer product'', which means any
tangible personal property which is normally used for personal,
family, or household purposes, or (2) anything designed or sold for
corporation into a dwelling. In determining whether a product is a
consumer product, doubtful cases shall be resolved in favor of
coverage. For a particular product received by a particular user,
"normally used" refers to a typical or common use of that class of
product, regardless of the status of the particular user or of the way
in which the particular user actually uses, or expects or is expected
to use, the product. A product is a consumer product regardless of
whether the product has substantial commercial, industrial or
non-consumer uses, unless such uses represent the only significant
mode of use of the product.

"Installation Information" for a User Product means any methods,
procedures, authorization keys, or other information required to
install and execute modified versions of a covered work in that User
Product from a modified version of its Corresponding Source. The
information must suffice to ensure that the continued functioning of
the modified object code is in no case prevented or interfered with
solely because modification has been made.

If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in ROM).

The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or
updates for a work that has been modified or installed by the
recipient, or for the User Product in which it has been modified or
installed. Access to a network may be denied when the modification
itself materially and adversely affects the operation of the network
or violates the rules and protocols for communication across the
network.

Corresponding Source conveyed, and Installation Information provided,
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@example
one line to give the program's name and a brief idea of what it does.
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@end example

Also add information on how to contact you by electronic and paper mail.

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This program comes with ABSOLUTELY NO WARRANTY; for details type show w.
This is free software, and you are welcome to redistribute it under certain conditions; type show c for details.
@end example

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Version 2, June 1991

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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.

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Otherwise, if the work is a derivative of the Library, you may
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whether or not they are linked directly with the Library itself.

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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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   Sections above.

b. Give prominent notice with the combined library of the fact
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That's all there is to it!
This is the Debian GNU/Linux prepackaged version of the GNU compiler
collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C,
Objective-C++, and Modula-2 compilers, documentation, and support
libraries. In addition, Debian provides the gm2 compiler, either in
the same source package, or built from a separate same source package.
Packaging is done by the Debian GCC Maintainers
<debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
svn://gcc.gnu.org/svn/gcc/ (for prereleases)
ftp://sourceware.org/pub/newlib/ (for newlib)
git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-9 source package is taken from the SVN gcc-9-branch.

Changes: See changelog.Debian.gz
Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

<table>
<thead>
<tr>
<th>Language</th>
<th>Compiler package</th>
<th>Library package</th>
<th>Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ada</td>
<td>gnat-9</td>
<td>libgnat-9</td>
<td>gnat-9-doc</td>
</tr>
<tr>
<td>BRIG</td>
<td>gccbrig-9</td>
<td>libhsail-rt0</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>gcc-9</td>
<td>gcc-9-doc</td>
<td></td>
</tr>
<tr>
<td>C++</td>
<td>g++-9</td>
<td>libstdc++6</td>
<td>libstdc++6-9-doc</td>
</tr>
<tr>
<td>D</td>
<td>gdc-9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fortran 95</td>
<td>gfortran-9</td>
<td>libgfortran3</td>
<td>gfortran-9-doc</td>
</tr>
<tr>
<td>Go</td>
<td>gccgo-9</td>
<td>libgo0</td>
<td></td>
</tr>
<tr>
<td>Objective C</td>
<td>objc-9</td>
<td>libobjc2</td>
<td></td>
</tr>
<tr>
<td>Objective C++</td>
<td>gobjc++-9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Modula-2</td>
<td>gm2-9</td>
<td>libgm2</td>
<td></td>
</tr>
</tbody>
</table>

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

<table>
<thead>
<tr>
<th>Language</th>
<th>Sources</th>
<th>Development</th>
<th>Debugging</th>
<th>Position-Independent</th>
</tr>
</thead>
<tbody>
<tr>
<td>C++</td>
<td></td>
<td>libstdc++6-9-dbgl</td>
<td>libstdc++6-9-pic</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td></td>
<td>libphobos-9-dev</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Additional packages include:

- All languages:
  - libgcc1, libgcc2, libgcc4
  - GCC intrinsics (platform-dependent)
  - gcc-9-base
  - Base files common to all compilers
  - gcc-9-soft-float
  - Software floating point (ARM only)
  - gcc-9-source
  - The sources with patches

- Ada:
  - libgnatvsn-dev, libgnatvsn9
  - GNAT version library

- C:
  - cpp-9, cpp-9-doc
  - GNU C Preprocessor
  - libssp0-dev, libssp0
  - GCC stack smashing protection library
  - libquadmath0
  - Math routines for the __float128 type
  - fixincludes
  - Fix non-ANSI header files

- C, C++ and Fortran 95:
  - libgomp1-dev, libgomp1GCC OpenMP (GOMP) support library
  - libitm1-dev, libitm1GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code,
Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libatomic
- libdecmumber
- libgomp
- libitm
- libssp
- libstdc++-v3
- libobjc
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- libvtv

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Version 3.1, 31 March 2009

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D:
  gdc-9                         GNU D Compiler
  libphobos-9-dev               D standard runtime library

The D source package is made up of the following components.

The D front-end for GCC:
  - d/*

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The Phobos standard runtime library:
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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

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

org.eclipse.jetty.toolchain:jetty-schemas

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1.36 snake-yaml 1.26
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1.37 libpython3.8 3.8.10-0ubuntu1~20.04.2
1.37.1 Available under license:

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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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1.38 python3.8-dev 3.8.10-0ubuntu1~20.04.2

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

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

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

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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
-------

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 version is still 5 times faster, though.
- Arguments more compliant with python standard

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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>.

<p><b>Note:</b> For W3C XML Schema [a href='http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/']XML Schema Part 1</a>], <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. By default, the newly created <code>LSParser</code> does not contain a <code>DOMErrorHandler</code>, i.e. the value of the "error-handler" 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 NOT_SUPPORTED_ERR: 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/impl/xs/XSConstraints.java

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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDocumentInfo.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDElementTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLErrorHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLFrameElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XMLEntityDescriptionImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/ObjectListImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLImgElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLOptgroupElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLInputSource.java
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jar/org/apache/xerces/impl/dv/dtd/ListDatatypeValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/StAXEventResultBuilder.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredAttrNSImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/DTDGrammar.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredEntityReferenceImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/datatypes/ObjectList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/PSVIErrorList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/XML11NMTOKENDatatypeValidator.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/XMLSerializer.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/PSVIErrorList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/KeyRef.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSDDescription.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/XMLAttributes.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLHeadElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLHeadElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/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/dv/dtd/XMLDTDProcessor.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/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/dom/DOMMessageFormatter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/LCount.java
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jar/org/apache/xerces/dom/DocumentImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xx/opti/TextImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/WMLOneventElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/util/ByteListImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/parsers/XIncludeParserConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLStrongElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/parsers/CachingParserPool.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/util/ParserConfigurationSettings.java
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jar/org/apache/xerces/jaxp/validation/EmptyXMLSchema.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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jar/org/apache/xerces/impl/xx/opti/DefaultNode.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xni/parser/XMLDTDContentModelSource.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
овариант, который позволяет использовать открытые пакеты, это создание справочного руководства по использованию пакетов. Для этого можно использовать инструменты, такие как Javadoc или Doxygen. Эти инструменты генерируют автоматически документацию по API пакетов, что позволяет легко найти информацию о каждой функции и классе.

Еще одним вариантом является создание системы регистрации использования пакетов. Эта система может отслеживать, кто и когда использует определенный пакет, а также фиксировать, что именно в пакете было использовано.

В целом, использование открытых пакетов позволяет значительно ускорить процесс разработки и упростить его. Пакеты можно использовать не только для создания новых приложений, но и для модификации уже существующих.
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/html/dom/HTMLDivElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/xs/XSNamespaceItem.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/xmlimpl/XMLNamespaceBinder.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/xmlimpl/XMLGrammarPreparser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/xmlimpl/ValidationManager.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/xmlimpl/xml/ValidationManagerImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/xmlimpl/xml/EntityResolver2Wrapper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/xmlimpl/xml/XMLAttributeDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/xmlimpl/xml/XMLContentSpec.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/xmlimpl/xml/XMLNamespaceItem.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/xmlimpl/xml/RangeExceptionImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/xmlimpl/xml/XMLSchemaException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/xmlimpl/xml/XSNamedMap.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/html/dom/HTMLStyleElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/xmlimpl/xml/XSAttributeUseImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/xmlimpl/xml/ValidationManager.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/xmlimpl/xml/EntityResolver2Wrapper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/xmlimpl/xml/XSElementDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/xmlimpl/dtd/XMLAttributeDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/xmlimpl/dtd/XMLContentSpec.java

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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/NodeImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/XML11IDREFDatatypeValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLConfigurationException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/SchemaNamespaceSupport.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/AbstractDateTimeDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/YearDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/SchemaNamespaceSupport.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/SchemaNamespaceSupport.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/AbstractDateTimeDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/YearDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDKeyrefTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/DateDV.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/ xs/DurationDV.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/ xs/XSSimpleTypeDecl.java
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1.44 python3-attr 19.3.0 2

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1.48 systemd 245.4-4ubuntu3.11

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1.50 ptyprocess 0.6.0-1ubuntu1
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* /opt/cola/permits/1257282536_1642795716.52/0/webapp-runner-main-8-5-15-1-sources-
jar/webapp/runner/launch/Main.java

1.52 adduser 3.118ubuntu2
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<imurdock@debian.org> and was maintained by Steve Phillips
<sjp@cvfn.org> from sources written for the Debian Project by Ian
Murdock, Ted Hajek <tedhajek@boombox.micro.umn.edu>, and Sven Rudolph
<sr1@inf.tu-dresden.de>.

Since Nov 27 1996, it was maintained by Guy Maor <maor@debian.org>. He
rewrote most of it.

Since May 20 2000, it is maintained by Roland Bauerschmidt
<rb@debian.org>.

Since March 24 2004, it is maintained by Roland Bauerschmidt
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Since 23 Oct 2005, it has been maintained by Joerg Hoh <joerg@joerghoh.de>

Since June 2006, it has been maintained by Stephen Gran <sgran@debian.org>

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1.53 alsa-ucm-conf 1.2.2-1ubuntu0.12

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Comment: This package was debianised by Jordi Mallach.
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1.54 asn-one 0.5.0

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* /opt/cola/permits/1195610807_1629796155.87/0/asn-one-0-5-0-sources-2-jar/com/hierynomus/asn1/types/string/ASN1OctetString.java
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* /opt/cola/permits/1195610807_1629796155.87/0/asn-one-0-5-0-sources-2-jar/com/hierynomus/asn1/ASN1OutputStream.java
* /opt/cola/permits/1195610807_1629796155.87/0/asn-one-0-5-0-sources-2-jar/com/hierynomus/asn1/types/primitive/ASN1Boolean.java
1.55 jzlib 1.1.3

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http://www.jcraft.com/jzlib/LICENSE.txt
1.56 hikaricp-java7 2.4.13

1.57 gcc-defaults 9.3.0-1ubuntu2

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1.58 idna 2.8

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===
A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

```python
import io, sys
from setuptools import setup

def main():

    python_version = sys.version_info[:2]
    if python_version < (2, 7):
        raise SystemExit("Sorry, Python 2.7 or newer required")

    package_data = {}
    exec(open('idna/package_data.py').read(), package_data)

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
            'Intended Audience :: Developers',
            'Intended Audience :: System Administrators',
            'License :: OSI Approved :: BSD License',
            'Operating System :: OS Independent',
            'Programming Language :: Python',
            'Programming Language :: Python :: 2',
            'Programming Language :: Python :: 2.7',
            'Programming Language :: Python :: 3',
            'Programming Language :: Python :: 3.4',
            'Programming Language :: Python :: 3.5',
            'Programming Language :: Python :: 3.6',
            'Topic :: Internet :: Name Service (DNS)',
            'Topic :: Software Development :: Libraries :: Python Modules',
            'Topic :: Utilities',
        ],
        'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
    }
```

---
'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

1.59 libxml2-utils 2.9.10+dfsg-5ubuntu0.20.04.2

1.59.1 Available under license:

Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0
Upstream-Name: libxml2
Source: ftp://xmlsoft.org/libxml2/
Files-Excluded:
  result
test
Comment:
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1.60 json-java 20131018

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* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/Property.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/CookieList.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/JSONTokener.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/XML.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/CDL.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/XMLTokener.java
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1.61 certifi 2019.11.28

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
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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certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
1.62 libxcb 1.14 2

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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.

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1.69 python3-paramiko 2.6.0-2
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1.70 e2fsprogs 1.45.5 2ubuntu1

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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>.

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# 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) $(DESTDIR)$(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 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:

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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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Theodore Ts'o
23-June-2007

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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:

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Gadi Oxman, August 1995

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

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state 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 program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

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Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
<program>  Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

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

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@heading TERMS AND CONDITIONS

@enumerate 0
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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.

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To ``convey'' a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

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work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

@item Source Code.

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.

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@enumerate
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You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

- 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.

- 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.

- 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.

- 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.

- 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.

@end enumerate

A separable portion of the object code, whose source code is excluded
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solely because modification has been made.

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installed. Access to a network may be denied when the modification
itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

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```
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You should have received a copy of the GNU General Public License along with this program. If not, see @url{http://www.gnu.org/licenses/}.
```

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Version 2, June 1991

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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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*SIGNATURE OF TY COON, 1 April 1990*

Ty Coon, President of Vice

That's all there is to it!

This is the Debian GNU/Linux prepackaged version of the GNU compiler collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C, Objective-C++, and Modula-2 compilers, documentation, and support libraries. In addition, Debian provides the gm2 compiler, either in
the same source package, or built from a separate same source package.
Packaging is done by the Debian GCC Maintainers
<debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/  (for full releases)
svn://gcc.gnu.org/svn/gcc/       (for prereleases)
ftp://sourceware.org/pub/newlib/  (for newlib)
git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-9 source package is taken from the SVN gcc-9-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language,
library, and documentation as follows:

<table>
<thead>
<tr>
<th>Language</th>
<th>Compiler package</th>
<th>Library package</th>
<th>Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ada</td>
<td>gnat-9</td>
<td>libgnat-9</td>
<td>gnat-9-doc</td>
</tr>
<tr>
<td>BRIG</td>
<td>gccbrig-9</td>
<td>libhsail-rt0</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>gcc-9</td>
<td>gcc-9-doc</td>
<td></td>
</tr>
<tr>
<td>C++</td>
<td>g++-9</td>
<td>libstdc++6</td>
<td>libstdc++6-9-doc</td>
</tr>
<tr>
<td>D</td>
<td>gdc-9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fortran 95</td>
<td>gfortran-9</td>
<td>libgfortran3</td>
<td>gfortran-9-doc</td>
</tr>
<tr>
<td>Go</td>
<td>gccgo-9</td>
<td>libgo0</td>
<td></td>
</tr>
<tr>
<td>Objective C</td>
<td>gobjc-9</td>
<td>libobjc2</td>
<td></td>
</tr>
<tr>
<td>Objective C++</td>
<td>gobjc++-9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Modula-2</td>
<td>gm2-9</td>
<td>libgm2</td>
<td></td>
</tr>
</tbody>
</table>

For some language run-time libraries, Debian provides source files,
development files, debugging symbols and libraries containing position-
independent code in separate packages:

<table>
<thead>
<tr>
<th>Language</th>
<th>Sources</th>
<th>Development</th>
<th>Debugging</th>
<th>Position-Independent</th>
</tr>
</thead>
<tbody>
<tr>
<td>C++</td>
<td>libstdc++6-9-dbg</td>
<td>libstdc++6-9-pic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>libphobos-9-dev</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Additional packages include:

All languages:
libgcc1, libgcc2, libgcc4  GCC intrinsics (platform-dependent)
gcc-9-base     Base files common to all compilers
gcc-9-soft-float Software floating point (ARM only)
gcc-9-source   The sources with patches

Ada:
libgnatvsn-dev, libgnatvsn9  GNAT version library
C:

cpp-9, cpp-9-doc            GNU C Preprocessor
libssp0-dev, libssp0            GCC stack smashing protection library
libquadmath0                    Math routines for the __float128 type
fixincludes                     Fix non-ANSI header files

C, C++ and Fortran 95:
libomp1-dev, libomp1GCC OpenMP (GOMP) support library
libtmi1-dev, libtmi1GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libatomic
- libdecnumber
- libgomp
- libitm
- libstdc++-v3
- libobjc
- libgfortran
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- libvtv

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Developed by:

LLVM Team

University of Illinois at Urbana-Champaign

http://llvm.org

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  libphobos-9-dev               D standard runtime library

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* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-jar/org/apache/log4j/spi/OptionHandler.java
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1.78 lz4 1.9.2 2ubuntu0.20.04.1

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1.79 netbase 6.1

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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
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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
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org.mortbay.jasper:apache-el
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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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This package was debianized by Philip Hands <phil@hands.com> on 31 Oct 1999
(with help from Dan Brosemer <odin@linuxfreak.com>)

It was downloaded from here:
ftp://ftp.fu-berlin.de/unix/security/openssh/openssh-2.3.0p1.tar.gz

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The Debian-specific parts of the package were initially derived from the
original ssh package, which has since been renamed as ssh-nonfree.

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The upstream source for this package is a combination of the ssh
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and porting work by Damien Miller <damien@ibs.com.au> to get it
working on Linux. Other people also contributed to this, and are
credited in /usr/share/doc/ssh/README.

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program’s name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

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

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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Public License instead of this License.

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Version 2, June 1991

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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 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.

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

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

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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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

   You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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.

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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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a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
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Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
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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.)

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c) If distribution of the work is made by offering access to copy
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d) Verify that the user has already received a copy of these
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which the executable runs, unless that component itself accompanies
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It may happen that this requirement contradicts the license
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use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
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library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

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Ty Coon, President of Vice

That's all there is to it!

1.95 keyutils 1.6 6ubuntu1

1.95.1 Available under license:

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Version 2.1, February 1999

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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When a program is linked with a library, whether statically or using
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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
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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
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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.

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

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

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

(For example, a function in a library to compute square roots has
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application-supplied function or table used by this function must
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root function must still compute square roots.)

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

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Version 3.1, 31 March 2009

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@end enumerate

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@example
@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{year} @var{name of author}

This program 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 of the License, or (at your option) any later version.

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along with this program. If not, see @url{http://www.gnu.org/licenses/}.
@end smallexample

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

@end 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

The hypothetical commands @samp{show w} and @samp{show c} should show
the appropriate parts of the General Public License. Of course, your
program's commands might be different; for a GUI interface, you would
use an ``about box''.

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if any, to sign a ``copyright disclaimer'' for the program, if necessary.
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library, you may consider it more useful to permit linking proprietary
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Version 2, June 1991

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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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========
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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

That's all there is to it!

This is the Debian GNU/Linux prepackaged version of the GNU compiler collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C, Objective-C++, and Modula-2 compilers, documentation, and support libraries. In addition, Debian provides the gm2 compiler, either in the same source package, or built from a separate same source package. Packaging is done by the Debian GCC Maintainers <debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
svn://gcc.gnu.org/svn/gcc/ (for prereleases)
ftp://sourceware.org/pub/newlib/ (for newlib)
git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-9 source package is taken from the SVN gcc-9-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

<table>
<thead>
<tr>
<th>Language</th>
<th>Compiler package</th>
<th>Library package</th>
<th>Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ada</td>
<td>gnat-9</td>
<td>libgnat-9</td>
<td>gnat-9-doc</td>
</tr>
<tr>
<td>BRIG</td>
<td>gccbrig-9</td>
<td>libhsail-rt0</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>gcc-9</td>
<td>gcc-9-doc</td>
<td></td>
</tr>
<tr>
<td>C++</td>
<td>g++-9</td>
<td>libstdc++6</td>
<td>libstdc++6-9-doc</td>
</tr>
<tr>
<td>D</td>
<td>gdc-9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fortran 95</td>
<td>gfortran-9</td>
<td>libgfortran3</td>
<td>gfortran-9-doc</td>
</tr>
<tr>
<td>Go</td>
<td>gccgo-9</td>
<td>libgo0</td>
<td></td>
</tr>
<tr>
<td>Objective C</td>
<td>gobjc-9</td>
<td>libobjc2</td>
<td></td>
</tr>
<tr>
<td>Objective C++</td>
<td>gobjc++-9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Modula-2</td>
<td>gm2-9</td>
<td>libgm2</td>
<td></td>
</tr>
</tbody>
</table>

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

<table>
<thead>
<tr>
<th>Language</th>
<th>Sources</th>
<th>Development</th>
<th>Debugging</th>
<th>Position-Independent</th>
</tr>
</thead>
<tbody>
<tr>
<td>C++</td>
<td>libstdc++6-9-dbg</td>
<td>libstdc++6-9-pic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>libphobos-9-dev</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Additional packages include:

All languages:
libgcc1, libgcc2, libgcc4  GCC intrinsics (platform-dependent)
gcc-9-base  Base files common to all compilers
gcc-9-soft-float  Software floating point (ARM only)
gcc-9-source  The sources with patches

Ada:
libgnatvsn-dev, libgnatvsn9  GNAT version library

C:
cpp-9, cpp-9-doc  GNU C Preprocessor
libssp0-dev, libssp0  GCC stack smashing protection library
libquadmath0  Math routines for the __float128 type
fixincludes  Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1GCC OpenMP (GOMP) support library
libitm1-dev, libitm1  GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libatomic
- libdeccnumber
- libgomp
- libitm
- libsssp
- libstdc++-v3
- libobjc
- libgfortran
- The libgnat-9 Ada support library and libgnatvsn library.
- Various config files in gcc/config/ used in runtime libraries.
- libvtv

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Developed by:

LLVM Team

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D:
gdc-9 GNU D Compiler
libphobos-9-dev D standard runtime library

The D source package is made up of the following components.

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- d/*

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The DMD Compiler implementation of the D programming language:
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Version 3, 29 June 2007

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

Found in path(s):
/ /opt/ws_local/PERMITS_SQL/1089947271_1601369618.24/0/bcpkix-fips-1-0-3-sources-jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java

1.98 fakeroot 1.24-1
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<td>KHR/khrplatform.h</td>
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include/GL/wglxext.h :

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Description: Makes the generated copyright headers reproducible
Author: Emmanuel Bourg <ebourg@apache.org>
Forwarded: no
---
@@ -26,6 +26,7 @@
package build.tools.cldrconverter;

import java.util.Calendar;
+import java.util.Date;
import java.util.GregorianCalendar;
import java.util.Locale;
import java.util.TimeZone;
@@ -150,8 +151,14 @@ class CopyrightHeaders {
 }
private static int getYear() {
    return new GregorianCalendar(TimeZone.getTimeZone("America/Los_Angeles"),
    Locale.US).get(Calendar.YEAR);
+    Date date = new Date();
+    if (System.getenv("SOURCE_DATE_EPOCH") != null) {
+        date = new Date(1000 * Long.valueOf(System.getenv("SOURCE_DATE_EPOCH")));
+    }
+    GregorianCalendar calendar = new GregorianCalendar(TimeZone.getTimeZone("UTC"), Locale.ENGLISH);
+    calendar.setTime(date);
+    return calendar.get(Calendar.YEAR);
}
// no instantiation
---
@@ -34,9 +34,13 @@
import java.util.Calendar;
+import java.util.Date;
import java.util.GregorianCalendar;
import java.util.List;
import java.util.Locale;
+import java.util.TimeZone;
import java.util.stream.Collectors;
@@ -246,8 +250,15 @@ public class EquivMapsGenerator {
    + "}";
private static String getOpenJDKCopyright() {
    int year = ZonedDateTime.now(ZoneId.of("America/Los_Angeles")).getYear();
    Date date = new Date();
    if (System.getenv("SOURCE_DATE_EPOCH") != null) {
        date = new Date(1000 * Long.valueOf(System.getenv("SOURCE_DATE_EPOCH")));
    }

    GregorianCalendar calendar = new GregorianCalendar(TimeZone.getTimeZone("UTC"), Locale.ENGLISH);
    calendar.setTime(date);

    int year = calendar.get(Calendar.YEAR);
    return String.format(Locale.US, COPYRIGHT, year);
}

This package was debianized by Matthias Klose <doko@ubuntu.com> on Wed, 08 Aug 2007 15:55:39 +0200.

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   888 8 888oo888P` `8888'
   888 8 888   .8PY888.
  `88  .8' 888   d8' `888b
    `YbodP' o888o  o888o o88888o
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Eclipse

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

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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

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org.apache.taglibs:taglibs-standard-spec
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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* /opt/cola/permits/1195818461_1629833729.3/0/jul-to-slf4j-1-7-32-sources-jar/org/slf4j/bridge/SLF4JBridgeHandler.java
1.108 lxml 4.5.0-1ubuntu0.5

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1.110 python3-more-itertools 4.2.0 1build1

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1.112 libidn 2.2.0 2

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rijndaal-alg-fst.c

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@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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D3DES (V5.09) -

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1.118 python-packaging 20.3-1

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

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

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

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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.

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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.

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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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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.

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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 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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1.131 pcre 8.44
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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS

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1.133 pcre 10.34-7

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The basic library functions are written in C and are freestanding. Also included in the distribution is a just-in-time compiler that can be used to optimize pattern matching. This is an optional feature that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS

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1.138 libalgorithmdiff-xs-perl 0.04-6

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abstract: Algorithm::Diff with XS core loop
author: Audrey Tang <cpan@audreyt.org>
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generated_by: Module::Install version 0.67
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meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.3.html
  version: 1.3
name: Algorithm-Diff-XS
no_index:
directory:
  - inc
  - t
requires:
  Algorithm::Diff: 1.19
  perl: 5.6.0
  version: 0.01

Found in path(s):
* /opt/cola/permits/1125674286_1611416022.78/0/libalgorithmdiff-xs-perl-0-04-orig-1-tar-gz/Algorithm-Diff-XS-0.04/META.yml

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NAME

Algorithm::Diff::XS - Algorithm::Diff with XS core loop

SYNOPSIS

# Drop-in replacement to Algorithm::Diff, but "compact_diff"
# and C<\LCSidx> will run much faster for large data sets.
use Algorithm::Diff::XS qw( compact_diff LCSidx );

DESCRIPTION
This module is a simple re-packaging of Joe Schaefer's excellent but not very well-known Algorithm::LCS with a drop-in interface that simply re-uses the installed version of the Algorithm::Diff module.

Note that only the "LCSidx" function is optimized in XS at the moment, which means only "compact_diff" will get significantly faster for large data sets, while "diff" and "sdiff" will run in identical speed as "Algorithm::Diff".

BENCHMARK

<table>
<thead>
<tr>
<th>Rate</th>
<th>Algorithm::Diff</th>
<th>Algorithm::Diff::XS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Algorithm::Diff</td>
<td>14.7/s</td>
<td>--</td>
</tr>
<tr>
<td>Algorithm::Diff::XS</td>
<td>806/s</td>
<td>5402%</td>
</tr>
</tbody>
</table>

The benchmarking script is as below:

```perl
my @data = ([qw/a b d/ x 50], [qw/b a d c/ x 50]);
cmpthese(500, {
    'Algorithm::Diff' => sub {
        Algorithm::Diff::compact_diff(@data)
    },
    'Algorithm::Diff::XS' => sub {
        Algorithm::Diff::XS::compact_diff(@data)
    }
});
```

SEE ALSO

Algorithm::Diff, Algorithm::LCS.

AUTHORS

Audrey Tang <cpan@audreyt.org>

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=head1 NAME

Algorithm::Diff::XS - Algorithm::Diff with XS core loop

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    },
    'Algorithm::Diff::XS' => sub {
        Algorithm::Diff::XS::compact_diff(@data)
    }
},

SEE ALSO

L<Algorithm::Diff>, L<Algorithm::LCS>.

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 * ppport.h  -- Perl/Pollution/Portability Version 3.06_01
 *
 *
 * Do NOT edit this file directly! -- Edit PPPort.pm.PL and the
 * includes in parts/inc/ instead.
 *
 * Use 'perldoc ppport.h' to view the documentation below.
 *
 * SKIP
 *
 */

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SKIP

pod

NAME
ppport.h - Perl/Pollution/Portability version 3.06_01

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help
--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options

--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments

--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files

--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.9.3.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does
not require any external programs.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<pport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<pport.h> if you intend to be backward compatible only up to a certain Perl version.

=head2 --cplusplus

Usually, F<pport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<pport.h> to leave C++ comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter
Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

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=item *

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

    perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.
If you use one of a few functions that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions, you want either C<static> or global variants.

For a C<static> function, use:

    #define NEED_function

For a global function, use:

    #define NEED_function_GLOBAL

Note that you mustn't have more than one global request for one function in your project.

<table>
<thead>
<tr>
<th>Function</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
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<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
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<tr>
<td>grok_hex()</td>
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<td>grok_number()</td>
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<td>grok_numeric_radix()</td>
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<tr>
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</tr>
<tr>
<td>newCONSTSUB()</td>
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<td>newRV_noinc()</td>
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<td>NEED_sv_2pv_nolen_GLOBAL</td>
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<td>sv_catpvf_mg_nocontext()</td>
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<td>sv_setpvf_mg()</td>
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<tr>
<td>sv_setpvf_mg_nocontext()</td>
<td>NEED_sv_setpvf_mg_nocontext</td>
<td>NEED_sv_setpvf_mg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>vnewSVpfv()</td>
<td>NEED_vnewSVpfv</td>
<td>NEED_vnewSVpfv_GLOBAL</td>
</tr>
</tbody>
</table>

To avoid namespace conflicts, you can change the namespace of the explicitly exported functions using the C<DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

    #define DPPP_NAMESPACE MyOwnNamespace_
    #include "ppport.h"

The default namespace is C<DPPP_>.
The good thing is that most of the above can be checked by running
F<ppport.h> on your source code. See the next section for
details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you
should make any changes to your code, and whether any special defines
should be used, F<ppport.h> can be run as a Perl script to check your
source code. Simply say:

 perl ppport.h

The result will usually be a list of patches suggesting changes
that should at least be acceptable, if not necessarily the most
efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in
newer Perl releases, if you're aware that it uses C++ comments,
and if you want all suggestions as a single patch file, you could
use something like this:

 perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions
for changes, use:

 perl ppport.h --nochanges

You can specify a different C<diff> program or options, using
the C<--diff> option:

 perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

To display portability information for the C<newSVpvn> function,
use:

 perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression,
you can use

 perl ppport.h --api-info=/_nomg$/
to display portability information for all C<nomg> functions or

perl ppport.h --api-info=./

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during
the compilation of this module, please check if newer versions
of either this module or C<Devel::PPPort> are available on CPAN
before sending a bug report.

If F<ppport.h> was generated using the latest version of
C<Devel::PPPort> and is causing failure of this module, please
file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort>
module from CPAN.

=head1 COPYRIGHT
use strict;

my %opt = (
    quiet    => 0,
    diag     => 1,
    hints    => 1,
    changes  => 1,
    cplusplus => 0,
    filter   => 1,
);

my($ppport) = $0 =~ /\[[\w.]+\]/;$
my $LF = '(?:\r\n|\[\r\n\])';   # line feed
my $HS = "[ ]";             # horizontal whitespace

eval {
    require Getopt::Long;
    Getopt::Long::GetOptions(%opt, qw(
        help quiet diag! filter! hints! changes! cplusplus
        patch=s copy=s diff=s compat-version=s
        list-provided list-unsupported api-info=s
    )) or usage();
};

if ($@ and grep /^-/, @ARGV) {
    usage() if "$ARGV" =~ /^--?h(?:elp)?$/;
    die "Getopt::Long not found. Please don't use any options.\n"
}

usage() if $opt{help};

if (exists $opt{'compat-version'}) {

my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) }; if ($@) { die "Invalid version number format: \$opt\{'compat-version'\}\n"; } die "Only Perl 5 is supported\n" if $r != 5; die "Invalid version number: \$opt\{'compat-version'\}\n" if $v >= 1000 || $s >= 1000; $opt\{'compat-version'\} = sprintf \"%d\%.03d\%.03d\", $r, $v, $s; } else { $opt\{'compat-version'\} = 5; }

# Never use C comments in this file!!!!!
my $ccs = 7\."*";
my $cce = "*\./";
my $rcce = quotemeta $ccs;
my $rccce = quotemeta $cce;

my %API = map { /^\w+\|([^|]*)\|([^|]*)\|([^|]*)\|\w*/s/ ? ( $1 => { ($2 ? ( base => $2 ) : ()) , ($3 ? ( todo => $3 ) : ()) , (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()) , (index($4, 'p') >= 0 ? ( provided => 1 ) : ()) , (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ()) } ) : die "invalid spec: \$_" } qw(AvFILL\np|5.004050\nAvFILL\n\nCLASS\n\nCX_CURPAD_SAVE\nCX_CURPAD_SV\nCopFILEAV\n\nCopFILEAV[5.006000]\np\nCopFILEGV_set\n\nCopFILEGV\n\nCopFILEGV[5.006000]\np\nCopFILESV\n\nCopFILESV[5.006000]\np\nCopFILE_set\n\nCopFILE_set[5.006000]\np\nCopFILE_set\n\nCopFILE_set[5.006000]\np\nCopSTASHPV_set\n\nCopSTASHPV_set[5.006000]\np\nCopSTASHPV\n\nCopSTASHPV[5.006000]\np\nCopSTASH_eq\n\nCopSTASH_eq[5.006000]\np\nCopSTASH_set\n\nCopSTASH_set[5.006000]\np\nCopSTASH\n\nCopSTASH[5.006000]\np\nCopyD\n\nCopyD[5.009002]\np\nCopy\n\nCopy\n\nCvPADLIST\n\nCvPADLIST\n\nCvSTASH\n\nCvSTASH\n\nCvWEAKOUTSIDE\n\nCvWEAKOUTSIDE\n
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);
if (exists $opt{'list-unsupported'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $API{$f}{todo};
print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
}
exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %depends);
my $replace = 0;
my $hint = '';
while (<DATA>) {
if ($hint) {
if (m{^\s*\*\s(.*?)\s*$}) {
$hints{$hint} ||= ''; # suppress warning with older perls
$hints{$hint} .= "$1\n";
}
else {
$hint = '';
}
}
$hint = $1 if m{^\s*$rccs\sHint:\s+(\w+)\s*$};
$replace = $1 if m{^\s*$rccs\s+Replace:\s+(\d+)\s+$rcce\s*$};
$replace{$2} = $1 if $replace and m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+)};
$replace{$2} = $1 if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+).*$rccs\s+Replace\s+$rcce};
$replace{$1} = $2 if m{^\s*$rccs\s+Replace (\w+) with (\w+)\s+$rcce\s*$};
if (m{^\s*$rccs\s+(\w+)\s+depends\s+on\s+(\w+(\s*,\s*\w+)*)\s+$rcce\s*$}) {
push @{$depends{$1}}, map { s/\s+//g; $_ } split /,/, $2;
}
$need{$1} = 1 if m{^#if\s+defined\(NEED_(\w+)(?:_GLOBAL)?\)};
}
if (exists $opt{'api-info'}) {
my $f;
my $count = 0;
my $match = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "^\Q$opt{'api-info'}\E\$";
for $f (sort { lc $a cmp lc $b } keys %API) {

Open Source Used In NYAT 0.8 1921


next unless $f =~ /$match/;
print "\n== $f ==\n";
my $info = 0;
if ($API{$f}{base} || $API{$f}{todo}) {
    my $base = format_version($API{$f}{base} || $API{$f}{todo});
    print "Supported at least starting from perl-$base\n";
    $info++;
}
if ($API{$f}{provided}) {
    my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
    print "Support by $ppport provided back to perl-$todo\n";
    print "Support needs to be explicitly requested by NEED_$f\n" if exists $need{$f};
    print "Depends on: ", join(',', '@{$depend->{}}'), ",\n" if exists $depends{$f};
    print "Hints: $hints{$f}" if exists $hints{$f};
    $info++;
}
unless ($info) {
    print "No portability information available\n";
}
$count++;
}
if ($count > 0) {
    print "\n";
}
else {
    print "Found no API matching 'opt{api-info}'\n";
}
exit 0;
}
if (exists $opt{'list-provided'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{provided};
        my @flags;
        push @flags, 'explicit' if exists $need{$f};
        push @flags, 'depend'   if exists $depends{$f};
        push @flags, 'hint'     if exists $hints{$f};
        my @flags = @flags ? ['join(’, ’, @flags).'] : "
; print "$f@flags\n";
    }
    exit 0;
}
my @files;
my @srcext = qw(xs c h cc cpp);
my $srcext = join '|', @srcext;
if (@ARGV) {
my %seen;
@files = grep { -f && !exists $seen{$_} } map { glob $_ } @ARGV;
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /\.($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*.$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/\.($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
unless (@files) {
die "No input files given!\n";
}
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };

Open Source Used In NYAT 0.8 1923


close IN;
my %file = (orig => $c, changes => 0);
# temporarily remove C comments from the code
my @ccom;
$c =~ s{
(
[^"'/]+
|
(?:"[^"\\]*(?:\\.[^"\\]*)*" [^"'/]*)+
|
(?:'[^'\\]*(?:\\.[^'\\]*)*' [^"'/]*)+
)
|
(/ (?:
\*[^*]*\*+(?:[^$ccs][^*]*\*+)* /
|
/[^\r\n]*
))
}{
defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce";
}egsx;
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = ($c =~ /#.*include.*\Q$ppport\E/);
my $func;
for $func (keys %API) {
my $match = $func;
$match .= "|$revreplace{$func}" if exists $revreplace{$func};
if ($c =~ /\b(?:Perl_)?($match)\b/) {
$file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
$file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
if (exists $API{$func}{provided}) {
if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
$file{uses}{$func}++;
my @deps = rec_depend($func);
if (@deps) {
$file{uses_deps}{$func} = \@deps;
for (@deps) {
$file{uses}{$_} = 0 unless exists $file{uses}{$_};
}
}
for ($func, @deps) {

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if (exists $need{$_}) {
$file{needs}{$_} = 'static';
}
}
}
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
if ($c =~ /\b$func\b/) {
$file{uses_todo}{$func}++;
}
}
}
}
while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else {
warning("Possibly wrong #define $1 in $filename");
}
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}

Open Source Used In NYAT 0.8 1925


for $filename (@files) {
    exists $files{$filename} or next;

    info("=== Analyzing $filename ===");

    my %file = %{$files{$filename}};
    my $c = $file{code};

    for $func (sort keys %{$file{uses_Perl}}) {
        if ($API{$func}{varargs}) {
            my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|\[\^s\)]*\)}}{ $1 . ($2 eq ') ? 'aTHX' : 'aTHX_-' }ge);
            if ($changes) {
                warning("Doesn't pass interpreter argument aTHX to Perl_$func");
                $file{changes} += $changes;
            } else {
                warning("Uses Perl_$func instead of $func");
                $file{changes} += ($c =~ s{\bPerl_$func(\s*)\(\s*aTHX_\)?\s*}{'$func$1'}g);
            }
    }

    for $func (sort keys %{$file{uses_replace}}) {
        warning("Uses $func instead of $replace{$func}");
        $file{changes} += ($c =~ s/\b$func/\$replace{$func}/g);
    }

    for $func (sort keys %{$file{uses}}) {
        next unless $file{uses}{$func};   # if it's only a dependency
        if (exists $file{uses_deps}{$func}) {
            diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
        } elsif (exists $replace{$func}) {
            warning("Uses $func instead of $replace{$func}");
            $file{changes} += ($c =~ s/\b$func/\$replace{$func}/g);
        } else {
            diag("Uses $func");
        }
        hint($func);
    }

    for $func (sort keys %{$file{uses_todo}}) {
        warning("Uses $func, which may not be portable below perl ",

format_version($API{$func}{todo}));
}

for $func (sort keys %{$file{needed_static}}) {
    my $message = ";
    if (not exists $file{uses}{$func}) {
        $message = "No need to define NEED_$func if $func is never used";
    } elsif (exists $file{needs}{$func} & & $file{needs}{$func} ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
    }
}

for $func (sort keys %{$file{needed_global}}) {
    my $message = ";
    if (not exists $global{uses}{$func}) {
        $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
    } elsif (exists $file{needs}{$func}) {
        if ($file{needs}{$func} eq 'extern') {
            $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
        } elsif ($file{needs}{$func} eq 'static') {
            $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
        }
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
    }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = ";

    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}{$func};
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : "
        unless (exists $file{"needed_$type"}{$func}) {
            if ($type eq 'global') {
                diag("Files [@{$global{needs}{$func}}] need $func, adding global request");
            }
if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+).*?/$1$pp/ms)) {
    $pp = ";
    $file{changes}++;
}

unless ($file{has_inc_ppport}) {
    diag("Needs to include $ppport");
    $pp = qq(#include "$ppport"
)
}

if ($pp) {
    $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*?)/$1$pp/ms)
        || ($c =~ s/^($HS*#$HS*include.*Q$ppport\E)/$pp/m)
        || ($c =~ s/^($HS*#$HS*include.*XSUB.*s*?)/$1$pp/m)
        || ($c =~ s/^/$pp/);
}
else {
    if ($file{has_inc_ppport}) {
        diag("No need to include $ppport");
        $file{changes} += ($c =~ s/^($HS*#$HS*include.*Q$ppport\E.*?SLF//m);
    }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccom[$ix] $cme/;
    }
    else {
        $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
    }
}

if ($cppc) {
    my $s = $cppc != 1 ? 's' : ';

    Open Source Used In NYAT 0.8 1928
warning("Uses $cppc C++ style comment$s, which is not portable");
}

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("$newfile' already exists, refusing to write copy of '$filename'");
        } else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of '$filename' with changes to '$newfile'");
                print F $c;
                close F;
            } else {
                error("Cannot open '$newfile' for writing: $!");
            }
        }
    } elsif (exists $opt{patch} || $opt{changes}) {
        if (exists $opt{patch}) {
            unless ($patch_opened) {
                if (open PATCH, ">$opt{patch}") {
                    $patch_opened = 1;
                } else {
                    error("Cannot open '$opt{patch}' for writing: $!");
                    delete $opt{patch};
                    $opt{changes} = 1;
                    goto fallback;
                }
            }
            mydiff(
                PATCH, $filename, $c);
        } else {
            fallback:
            info("Suggested changes:");
            mydiff(
                STDOUT, $filename, $c);
        }
    } else {
        my $s = $file{changes} == 1 ? '' : 's';
        info("$file{changes} potentially required change$s detected");
    }
} else {

info("Looks good");
}
}

close PATCH if $patch_opened;

exit 0;

sub mydiff
{
    local *F = shift;
    my($file, $str) = @_; my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    }

    if (!defined $diff and can_use('Text::Diff')) {
        $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
        $diff = <<HEADER . $diff;
            --- $file
            +++ $file.patched
            HEADER
    }

    if (!defined $diff) {
        $diff = run_diff('diff -u', $file, $str);
    }

    if (!defined $diff) {
        $diff = run_diff('diff', $file, $str);
    }

    if (!defined $diff) {
        error("Cannot generate a diff. Please install Text::Diff or use --copy.");
        return;
    }

    print F $diff;
}

sub run_diff
{
    my($prog, $file, $str) = @_; my $tmp = 'dppptemp';
my $suf = 'aaa';
my $diff = '';
local *F;

while (-e "$tmp.$suf") { $suf++ }
$tmp = "$tmp.$suf";

if (open F, ">$tmp") {
  print F $str;
  close F;

  if (open F, "$prog $file $tmp |") {
    while (<F>) {
      s/Q$tmp\E/$file.patched/;
      $diff .= $_;
    }
    close F;
    unlink $tmp;
    return $diff;
  }
  unlink $tmp;
} else {
  error("Cannot open '$tmp' for writing: $!");
}

return undef;

sub can_use {
  eval "use @_;";
  return $@ eq '';}

sub rec_depend {
  my $func = shift;
  my %seen;
  return () unless exists $depends{$func};
  grep !$seen{$_}++, map { ($_, rec_depend($_)) } @{$depends{$func}};
}

sub parse_version {
  my $ver = shift;
}
if ($ver =~ /\^\d+\.\d+\.\d+$/) {
    return ($1, $2, $3);
}
elsif ($ver !~ /^\d+\.|\d+$/) {
    die "cannot parse version $ver\n";
}

$ver =~ s/_//g;
$ver =~ s/$/000000/;

my($r,$v,$s) = $ver =~ /\d+\.\d{3}\d{3}/;

$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "cannot parse version $ver\n";
    }
}

return ($r, $v, $s);

sub format_version {
    my $ver = shift;

    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\d+\.\d{3}\d{3}/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "invalid version $ver\n";
        }
        $s /= 10;
    }

    $ver = sprintf "%d.%03d", $r, $v;
    $s > 0 and $ver .= sprintf "._%02d", $s;

    return $ver;
}

return sprintf "%d.%d.%d", $r, $v, $s;
sub info
{
    $opt{quiet} and return;
    print @_, "\n";
}

sub diag
{
    $opt{quiet} and return;
    $opt{diag} and print @_, "\n";
}

sub warning
{
    $opt{quiet} and return;
    print "*** ", @_, "\n";
}

sub error
{
    print "*** ERROR: ", @_, "\n";
}

my %given_hints;
sub hint
{
    $opt{quiet} and return;
    $opt{hints} or return;
    my $func = shift;
    exists $hints{$func} or return;
    $given_hints{$func}++ and return;
    my $hint = $hints{$func};
    $hint =~ s/^/   /mg;
    print "   --- hint for $func ---\n", $hint;
}

sub usage
{
    my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
    my %M = ( 'I' => '*' );
    $usage =~ s/\s+perl\s+\S+/$^X $0/;
    $usage =~ s/([A-Z])<(/[^>]+)>/$M{$1}$2$M{$1}/g;
    print <<ENDUSAGE;
Usage: $usage

ENDUSAGE;

Usage: $usage
See perldoc $0 for details.

ENDUSAGE

exit 2;
}

__DATA__
*/

Found in path(s):
* /opt/cola/permits/1125674286_1611416022.78/0/libalgorithm-diff-xs-perl-0-04-orig-1-tar-gz/Algorithm-Diff-XS-0.04/ppport.h

1.139 jakarta-annotation-api 1.3.4

1.139.1 Available under license:

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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.

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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
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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/about/index.html'.

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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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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
------

The `socket' module uses the functions, `getaddrinfo', and
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UUencode and UUdecode functions

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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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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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include/GL/wglxext.h:

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import java.util.Calendar;
+import java.util.Date;
import java.util.GregorianCalendar;
import java.util.Locale;
import java.util.TimeZone;

private static int getYear() {
    "--- a/make/jdk/src/classes/build/tools/cldrconverter/CopyrightHeaders.java"
+    Date date = new Date();
+    if (System.getenv("SOURCE_DATE_EPOCH") != null) {
+        date = new Date(1000 * Long.valueOf(System.getenv("SOURCE_DATE_EPOCH")));
+    }
+    GregorianCalendar calendar = new GregorianCalendar(TimeZone.getTimeZone("UTC"), Locale.ENGLISH);
+    calendar.setTime(date);
+    return calendar.get(Calendar.YEAR);
}
import java.util.TreeMap;
import java.util.stream.Collectors;

// -246.8 +250.15 public class EquivMapsGenerator {
+ "}");

   private static String getOpenJDKCopyright() {
-        int year = ZonedDateTime.now(ZoneId
-                .of("America/Los_Angeles")).getYear();
+        Date date = new Date();
+        if (System.getenv("SOURCE_DATE_EPOCH") != null) {
+            date = new Date(1000 * Long.valueOf(System.getenv("SOURCE_DATE_EPOCH")));
+        }
+        
+        GregorianCalendar calendar = new GregorianCalendar(TimeZone.getTimeZone("UTC"), Locale.ENGLISH);
+        calendar.setTime(date);
+        
+        int year = calendar.get(Calendar.YEAR);
+        return String.format(Locale.US, COPYRIGHT, year);
   }

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1.154 libalgorithm-merge-perl 0.08 3

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1.157 stax-api 1.0.1

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1.160 binutils 2.34-6ubuntu1.3

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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 '>

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Found in path(s):
  * /opt/cola/permits/1168963812_1622802919.99/0/python3-stlstdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_standarderror.py
  * /opt/cola/permits/1168963812_1622802919.99/0/python3-stlstdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_map.py
  * /opt/cola/permits/1168963812_1622802919.99/0/python3-stlstdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_xrange.py
  * /opt/cola/permits/1168963812_1622802919.99/0/python3-stlstdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_buffer.py
  * /opt/cola/permits/1168963812_1622802919.99/0/python3-stlstdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_dict.py
  * /opt/cola/permits/1168963812_1622802919.99/0/python3-stlstdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_standarderror.py
  * /opt/cola/permits/1168963812_1622802919.99/0/python3-stlstdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_buffer.py
  * /opt/cola/permits/1168963812_1622802919.99/0/python3-stlstdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_dict.py
  * /opt/cola/permits/1168963812_1622802919.99/0/python3-stlstdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_standarderror.py
extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_standarderror.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib
extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_xrange.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib
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extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_buffer.py
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1.167 slf4j-log4j 2.0.0-alpha1

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Found in path(s):
* /opt/cola/permits/1102648017_1603824195.55/0/sl4j-log4j12-2-0-0-alpha1-sources-1-
1.168 python-setuptools 45.2.0

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1.169 python-setuptools 45.2.0

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see 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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* 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

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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

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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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888       8   888   .d88'    Y888..8P
888       8   888ooo88P'      `8888'
888       8   888            .8PY888.
`Y88.    .8'   888           d8'  `888b
`YbodP'    o888o        o888o  o88888o
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```
// no instantiation
--- a/make/jdk/src/classes/build/tools/generatelsrequivmaps/EquivMapsGenerator.java
+++ b/make/jdk/src/classes/build/tools/generatelsrequivmaps/EquivMapsGenerator.java
@@ -34,9 +34,13 @@ import java.time.ZoneId;
import java.time.ZonedDateTime;
import java.util.ArrayList;

private static int getYear() {
-    return new GregorianCalendar(TimeZone.getTimeZone("America/Los_Angeles"),
-                                   Locale.US).get(Calendar.YEAR);
+    Date date = new Date();
+    if (System.getenv("SOURCE_DATE_EPOCH") != null) {
+        date = new Date(1000 * Long.valueOf(System.getenv("SOURCE_DATE_EPOCH")));
+    }
+    GregorianCalendar calendar = new GregorianCalendar(TimeZone.getTimeZone("UTC"), Locale.ENGLISH);
+    calendar.setZone(date);
+    return calendar.get(Calendar.YEAR);
}
```

// no instantiation
import java.util.Arrays;
+import java.util.Calendar;
+import java.util.Date;
+import java.util.GregorianCalendar;
import java.util.List;
import java.util.Locale;
import java.util.Map;
+import java.util.TimeZone;
import java.util.TreeMap;
import java.util.stream.Collectors;

@@ -246,8 +250,15 @@ public class EquivMapsGenerator {
  + "}"

    private static String getOpenJDKCopyright() {
-        int year = ZonedDateTime.now(ZoneId
-                .of("America/Los_Angeles").getYear());
+        Date date = new Date();
+        if (System.getenv("SOURCE_DATE_EPOCH") != null) {
+            date = new Date(1000 * Long.valueOf(System.getenv("SOURCE_DATE_EPOCH")));
+        }
+        GregorianCalendar calendar = new GregorianCalendar(TimeZone.getTimeZone("UTC"), Locale.ENGLISH);
+        calendar.setTime(date);
+        int year = calendar.get(Calendar.YEAR);
            return String.format(Locale.US, COPYRIGHT, year);
    }


1.172 eddsa 0.3.0

1.173 perl 5.30.0 9ubuntu0.2
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to humanity, the best way to achieve this is to make it
free software which everyone can redistribute and change under these
terms.

To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy  <name of author>

This program is free software; you can redistribute it and/or modify
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the Free Software Foundation; either version 1, or (at your option)
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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) 19xx name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the
commands you use may be called something other than `show w' and `show
c'; they could even be mouse-clicks or menu items--whatever suits your
program.

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

    Yoyodyne, Inc., hereby disclaims all copyright interest in
    the program `Gnomovision' (a program to direct compilers to make passes
    at assemblers) written by James Hacker.

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

That's all there is to it!
The "Artistic License"

Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

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   c) give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

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The End
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# here are easily-from-changelogs-extractable people and their
# (hopefully) current and preferred email addresses from the commits.
# These people have either submitted patches or suggestions, or their bug
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#
# After editing, please run: make test_porting
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1.174 icu 66.1 2ubuntu2.1

1.174.1 Available under license:

```makefile
## -*-makefile-*-.
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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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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
```

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LD_SOOPIONS= -Wl,-Bsymblic

## 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\[ :\]*/\1.o $@ : /g" \n| [ -s $@ ] || rm -f $@

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec $(GEN_DEPS.cc) $< \n| sed "s/(\$\n)\.o\[ :\]*/\1.o $@ : /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,-Bsymblic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
## End BSD-specific setup

This package was debianized by Jay Berkenbilt <qjb@debian.org> on August 5, 2005.
The packaging was taken over by Laszlo Boszormenyi (GCS) <gcs@debian.org> on Tue, 17 Mar 2015.

The original source was downloaded from
http://site.icu-project.org/download

The main web site for ICU is
http://www.icu-project.org/

ICU contains components with different licensing terms.

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Joseph Reagle <mailto:site-policy@w3.org>
Last revised by Reagle $Date: 2005-07-19 12:33:09 -0400 (Tue, 19 Jul 2005) $
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Joseph Reagle <mailto:site-policy@w3.org>
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1.185 coreutils 8.30 3ubuntu2

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KCM credential cache.
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@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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/**
 * Creates a new JSRInliner. <i>Subclasses must not use this</i> constructor, instead, they must use the
 * { @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
 * version.
 *
 * @param mv
 * the <code>MethodVisitor</code> to send the resulting inlined
 * method code to (use <code>null</code> for none).
 * @param access
 * the method's access flags (see { @link Opcodes}). This
 * parameter also indicates if the method is synthetic and/or
 * deprecated.
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see { @link Type}).
 * @param signature
 * the method's signature. May be <tt>null</tt>.
 * @param exceptions
 * the internal names of the method's exception classes (see
 * { @link Type#getName()}). May be <tt>null</tt>.
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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jar/org/objectweb/asm/commons/JSRInlinerAdapter.java

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 */
/**
 * Creates a new [ @link GeneratorAdapter ]. <i>Subclasses must not use this constructor</i>. Instead, they must use the
 * [ @link #GeneratorAdapter(int, MethodVisitor, int, String, String) ] version.
 *
 * @param mv
 * the method visitor to which this adapter delegates calls.
 * @param access
 * the method's access flags (see [ @link Opcodes ]).
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see [ @link Type Type ]).
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

Found in path(s):
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/GeneratorAdapter.java

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* constructor</i>. Instead, they must use the {@link #ClassNode(int)}
* version.
*
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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

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 */
/**
 * Found in path(s):
 * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/ClassNode.java
 */
* @param typePath
  the path to the annotated type argument, wildcard bound, array
  element type, or static inner type within 'typeRef'. May be
  `<tt>null</tt>` if the annotation targets 'typeRef' as a whole.
* @param start
  the fist instructions corresponding to the continuous ranges
  that make the scope of this local variable (inclusive).
* @param end
  the last instructions corresponding to the continuous ranges
  that make the scope of this local variable (exclusive). This
  array must have the same size as the 'start' array.
* @param index
  the local variable's index in each range. This array must have
  the same size as the 'start' array.
* @param desc
  the class descriptor of the annotation class.
*/

Found in path(s):
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
  jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java

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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/AnnotationWriter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/NameMapping.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/Method.java
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/FieldWriter.java
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/InstructionAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingClassAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/ClassReader.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/VarInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/StaticInitMerger.java
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*/
/**
 * Creates a new [@link AnalyzerAdapter]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)]
 * version.
 *
 * @param owner
 * the owner's class name.
 * @param access
 * the method's access flags (see [@link Opcodes]).
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see [@link Type]).
 * @param mv
 * the method visitor to which this adapter delegates calls. May
 * be <tt>null</tt>.
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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   version 1.2.11, January 15th, 2017

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

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(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

*/

1.194 cachecontrol 0.12.6
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AES in libhcrypto

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@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@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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DES core in libhcrypto
D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

(GEnie : OUTER; CIS : [71755,204]) Graven Imagery, 1992.

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1.196 cyrus-sasl 2.1.27+dfsg-2ubuntu0.1

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 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
 */

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1.199 libalgorithm-diff-perl 1.19.03-2

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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/1125694504_1611432691.89/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/META.yml
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* /opt/cola/permits/1125694504_1611432691.89/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/diffnew.pl

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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 $file1	", scalar localtime($st->mtime), "\n";
$st = stat($file2);
print "$char2 $file2	", scalar localtime($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);
    }
}

}
# 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 $File_Length_Difference
    #
    # Fields in a Hunk:
    # blocks   - a list of Block objects
    # start    - index in file 1 where first block of the hunk starts
    # end      - index in file 1 where last block of the hunk ends
    #
    # Variables:
    # before_diff - how much longer file 2 is than file 1 due to all hunks
    #               until NOT including this one
    # after_diff  - difference due to all hunks including this one
    my ($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
# 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 @@

    # 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"} }) {
  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 ****\n";
  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/$/
/} @outlist; # add \n's
  print @outlist;
}
map { s/$/
/ } @outlist; # add \n's
print @outlist;

print "--- $range2 ----\n";
$low = $hunk->"start2";
$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, $flag) = @_;  # e.g. start1, start2, end1, end2
  my ($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, $flag) = @_;  # e.g. start1, start2, end1, end2
  my ($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 @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" => \@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)

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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/1125694504_1611432691.89/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/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 $sep = "\n"
    if( !$diff->Items(2) ) {
        printf "%d,%d\n", $diff->Get(qw( Min1 Max1 Max2 ));
    } elsif( !$diff->Items(1) ) {
        printf "%da%d,%d\n", $diff->Get(qw( Max1 Min2 Max2 ));
    } else {
        $sep = "---\n"
        printf "%d,%d%dc%d\n", $diff->Get(qw( Min1 Max1 Min2 Max2 ));
    }
    print "< $_ for $diff->Items(1); print $sep;
    print "> $_ for $diff->Items(2);
}

# Alternate interfaces:

use Algorithm::Diff qw(
I once read an article written by the authors of C<diff>; they said
that they worked very hard on the algorithm until they found the right one.

I think what they ended up using (and I hope someone will correct me, because I am not very confident about this) was the 'longest common subsequence' method. In the LCS problem, you have two sequences of items:

\[ \text{a b c d f g h j q z} \]

\[ \text{a b c d e f g i j k r x y z} \]

and you want to find the longest sequence of items that is present in both original sequences in the same order. That is, you want to find a new sequence \( I \) which can be obtained from the first sequence by deleting some items, and from the second sequence by deleting other items. You also want \( I \) to be as long as possible. In this case \( I \) is

\[ \text{a b c d f g j z} \]

From there it's only a small step to get diff-like output:

\[ \begin{align*}
&\text{e h i k q r x y} \\
&\text{+ - + + - + + +} \\
\end{align*} \]

This module solves the LCS problem. It also includes a canned function to generate C<diff>-like output.

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

\[ \text{a x b y c z p d q} \]

\[ \text{a b c a x b y c z} \]

A naive approach might start by matching up the C<a> and C<b> that appear at the beginning of each sequence, like this:

\[ \begin{align*}
&\text{a x b y c z p d q} \\
&\text{a b c a x b y c z} \\
\end{align*} \]

This finds the common subsequence C<a b c z>. But actually, the LCS is C<a b y c z>:

\[ \begin{align*}
&\text{a x b y c z p d q} \\
&\text{a b c a x b y c z} \\
\end{align*} \]
or

    a  x  b  y  c  z  p  d  q
    a  b  c  a  x  b  y  c  z

=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<LCS>`, `C<LCS_length>`, `C<LCSidx>`, OO interface, `C<prepare>`, `C<diff>`, `C<sdiff>`, `C<traverse_sequences>`, and `C<traverse_balanced>.

=head2 C<LCS>

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.

    @lcs    = LCS( \@seq1, \@seq2 );
    $lcsref = LCS( \@seq1, \@seq2 );

`C<LCS>` may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

    @lcs    = LCS( \@seq1, \@seq2, \&keyGen, @args );
    $lcsref = 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:

\[
\begin{align*}
\text{my( } & \text{$idx1, $idx2 ) = LCSidx( \text{@seq1, @seq2 );} \\
\text{my } & \text{@list1 = @seq1[ @$idx1 ];} \\
\text{my } & \text{@list2 = @seq2[ @$idx2 ];} \\
\text{my } & \text{@list3 = LCS( @seq1, @seq2 );}
\end{align*}
\]

=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:

\[
\begin{align*}
\text{$obj } & = \text{Algorithm::Diff->new( @seq1, @seq2, [ \%opts ] );} \\
\text{$pos } & = \text{$obj->Next( [ $count : 1 ] );} \\
\text{$revPos} & = \text{$obj->Prev( [ $count : 1 ] );} \\
\text{$obj } & = \text{$obj->Reset( [ $pos : 0 ] );} \\
\text{$copy } & = \text{$obj->Copy( [ $pos, [$newBase ] );} \\
\text{$oldBase} & = \text{$obj->Base( [$newBase ] );}
\end{align*}
\]

Note that all of the following methods C<die> if used on an object that
is "reset" (not currently pointing at any hunk).

\[
\begin{align*}
\text{$bits } & = \text{$obj->Diff( );} \\
@items$cnt & = \text{$obj->Same( );} \\
@items$cnt & = \text{$obj->Items( $seqNum );} \\
@idxs$cnt & = \text{$obj->Range( $seqNum, [ $base ] );} \\
$minIdx & = \text{$obj->Min( $seqNum, [ $base ] );} \\
$maxIdx & = \text{$obj->Max( $seqNum, [ $base ] );} \\
@values & = \text{$obj->Get( @names );}
\end{align*}
\]
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>

```perl
$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>

```perl
$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 `Copy` takes an optional first argument to set the new position, so the following three snippets are equivalent:

```perl
$copy = $diff->Copy($pos);
$copy = $diff->Copy();
$copy->Reset($pos);
$copy = $diff->Copy()->Reset($pos);
```

`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:

```perl
$copy = $diff->Copy();
$copy->Base(0);
$copy = $diff->Copy(undef,0);
```

Here are two equivalent way to get a "reset" copy:

```perl
$copy = $diff->Copy(0);
$copy = $diff->Copy()->Reset();
```

=item C<Diff>

```perl
$bits = $obj->Diff();
```

`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.

=back

=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.

=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 C<< $diff->Items(1) >> will return an empty list (0 in a scalar context).
If the current hunk contains only deletions, then C<< $diff->Items(2) >> will return an empty list (0 in a scalar context).

If the hunk contains replacements, then both C<< $diff->Items(1) >> and 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:

@items = $diff->Items(1);  
@items = $diff->Items(2);  
@items = $diff->Same();

=item C<Range>

$count = $diff->Range( $seqNum );
@indices = $diff->Range( $seqNum );
@indices = $diff->Range( $seqNum, $base );

C<Range> is like C<Items> except that it returns a list of 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 C<Base> method. So, by default, the following two snippets return the same lists:

```perl
@list = $diff->Items(2);
@list = @seq2[ $diff->Range(2) ];
```

You can also specify the base to use as the second argument. So the following two snippets I<always> return the same lists:

```perl
@list = $diff->Items(1);
@list = @seq1[ $diff->Range(1,0) ];
```

=item C<Base>

$curBase = $diff->Base();
$oldBase = $diff->Base($newBase);

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 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:

```
^(-?\d+)?(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
}
```

C<prepare> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

```
$prep = prepare( \@seq1, \&keyGen );
for $i ( 0 .. 10_000 )
{
    @lcs = LCS( $seq[$i], $prep, \&keyGen );
    # do something useful with @lcs
}
```

Using C<prepare> provides a performance gain of about 50% when calling LCS many times compared with not preparing.

=head2 C<diff>

```
@diffs   = diff( \@seq1, \@seq2 );
$diffs_ref = diff( \@seq1, \@seq2 );
```
C<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 C<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 C<diff> for the following two sequences:

\[ a \ b \ c \ e \ h \ j \ l \ m \ n \ p \]
\[ b \ c \ d \ e \ f \ j \ k \ l \ m \ r \ s \ t \]

would produce the following list:

\[
(\[
[\ ['-', 0, 'a'] ],
[\ ['+', 2, 'd'] ],
[\ ['-', 4, 'h'],
    [\ ['+', 4, 'f'] ],
[\ ['+', 6, 'k'] ],
[\ ['-', 8, 'n'],
    [\ '-', 9, 'p'],
[\ ['+', 9, 'r'] ],
[\ ['+', 10, 's'] ],
[\ ['+', 11, 't'] ]
])
\]

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
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:

<table>
<thead>
<tr>
<th>same</th>
<th>same</th>
</tr>
</thead>
<tbody>
<tr>
<td>before</td>
<td>after</td>
</tr>
<tr>
<td>old</td>
<td>&lt;</td>
</tr>
<tr>
<td>-</td>
<td>&gt;</td>
</tr>
</tbody>
</table>

It returns a list of arrayrefs, 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:

```
  a b c e h j l m n p
  b c d e f j k l m r s t
```

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' ],
)
```
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, # b c = b c
3,
2, #
! d
3,
3, # e = e
4,
4, # f ! h
5,
5, # j = j
6,
6, #
! k
6,
7, # l m = l m
8,
9, # n p ! r s t
10, 12, #
);
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

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In other words, the first hunk consists of the following two lists of items:

<table>
<thead>
<tr>
<th>1st pair</th>
<th>2nd pair</th>
</tr>
</thead>
<tbody>
<tr>
<td># of indices</td>
<td>of indices</td>
</tr>
<tr>
<td>@list1 = @a[ $cdiff[0] .. $cdiff[2]-1 ];</td>
<td></td>
</tr>
<tr>
<td>@list2 = @b[ $cdiff[1] .. $cdiff[3]-1 ];</td>
<td></td>
</tr>
</tbody>
</table>

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:

```
@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<@diff[2..5]> contains (0,0,1,0) in our example, the second hunk consists of these two lists of items:

```
@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<@diff[4..7]> contains (1,0,3,2) in our example, the third hunk consists of these two lists of items:

    @hunk3a = @a[ $cdiff[4] .. $cdiff[6]-1 ];
    @hunk3a = @b[ $cdiff[5] .. $cdiff[7]-1 ];

# or
    @hunk3a = @a[ 1 .. 3-1 ];
    @hunk3a = @b[ 0 .. 2-1 ];

# or
    @hunk3a = @a[ 1 .. 2 ];
    @hunk3a = @b[ 0 .. 1 ];

# or
    @hunk3a = qw( b c );
    @hunk3a = 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 this module (the new OO interface is more powerful and much easier to use).

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:

```perl
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:

```perl
t
my $array1 = [ $person1, $person2, $person4 ];
my $array2 = [ $person1, $person3, $person4, $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.

=head1 AUTHOR

This version released by Tye McQueen (http://perlmonks.org/?node=tye).

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=head1 MAILING LIST

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.

=head1 CREDITS
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.

=cut

Found in path(s):
* /opt/cola/permits/1125694504_1611432691.89/0/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.

#!/usr/bin/perl
#
# `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.
#
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
", $lineno+1, $text;
  }
  print "--------
";
}
exit 1;

sub bag {
  my $msg = shift;
  $msg .= "\n";
  warn $msg;
  exit 2;
}

Found in path(s):
* /opt/cola/permits/1125694504_1611432691.89/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/diff.pl

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include/bsd/timeconv.h
include/bsd/vis.h
man/bitstring.3bsd
man/errc.3bsd
man/explicit_bzero.3bsd
man/fgetln.3bsd
man/fgetwln.3bsd
man/fpurge.3bsd
man/funopen.3bsd
man/getbsize.3bsd
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man/nlist.3bsd
man/queue.3bsd
man/radixsort.3bsd
man/reallocarray.3bsd
man/reallocf.3bsd
man/setmode.3bsd
man/strmode.3bsd
man/strnstr.3bsd
man/strtoi.3bsd
man/strtou.3bsd
man/unvis.3bsd
man/vis.3bsd
man/wcscpy.3bsd
src/getbsize.c
src/heapsort.c
src/merge.c
src/nlist.c
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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@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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DES core in libhcrypto

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D3DES (V5.09) -

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lib/hcrypto/test_dh.c

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JUnit

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

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

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

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6. As an exception to the Sections above, you may also combine or
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modification of the work for the customer's own use and reverse
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directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

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

c) Accompany the work with a written offer, valid for at least
three years, to give the same user the materials specified in
Subsection 6a, above, for a charge no more than the cost of
performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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

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

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

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1.208 tzdata 2022a-0ubuntu0.20.04

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1.209 libxdmcp 1.1.3-0ubuntu1

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Author:  Keith Packard, MIT X Consortium

1.210 libsemanage 3.0 1build2

1.210.1 Available under license:

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Version 2.1, February 1999

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1.211 python-webencodings 0.5.1-1ubuntu1

1.211.1 Available under license :

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Metadata-Version: 1.1
Name: webencodings
Version: 0.5.1
Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
Author: Geoffrey Sneddon
Author-email: me@gsnedders.com
License: BSD
Description: 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
* 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 overriding rules.
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 Pythons.
Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Internet :: WWW/HTTP

Found in path(s):
* /opt/cola/permits/1198220978_1630320253.62/0/python-webencodings-0-5-1-orig-1-tar-gz/webencodings-0.5.1/webencodings.egg-info/PKG-INFO
* /opt/cola/permits/1198220978_1630320253.62/0/python-webencodings-0-5-1-orig-1-tar-gz/webencodings-0.5.1/PKG-INFO

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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 = [""
    
    webencodings.labels
    ~~~~~~~~~~~~~~~~~~~

    Map encoding labels to their name.

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    :license: BSD, see LICENSE for details.

    # 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)
    parts.append('}
    return ''.join(parts)

if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))

Found in path(s):  
* /opt/cola/permits/1198220978_1630320253.62/0/python-webencodings-0-5-1-orig-1-tar-gz/webencodings-0.5.1/webencodings/mklabels.py
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    from setuptools import setup, find_packages
    import io
    from os import path
    import re

    VERSION = re.search("VERSION = '((\^[a-zA-Z\d+.-]+))', 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',
    maintainer='Geoffrey Sneddon',
    maintainer_email='me@gsnedders.com',
    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',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.6',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: 3.6',
        'Programming Language :: Python :: Implementation :: CPython',
        'Programming Language :: Python :: Implementation :: PyPy',
        'Topic :: Internet :: WWW/HTTP',
    ],
    packages=find_packages(),
)

Found in path(s):
* /opt/cola/permits/1198220978_1630320253.62/0/python-webencodings-0.5.1-orig-1-tar.gz/webencodings-0.5.1/setup.py
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:license: BSD, see LICENSE for details.
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
* 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 overriding rules.

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 Pythons.

1.212 packaging 20.3

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1.213 hk2-utils 2.5.0

1.214 bzip2 1.0.8 2
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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

1.215 audit 2.8.5-2ubuntu6
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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 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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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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1.218 hk2-api 2.5.0

1.219 bcel 2.7.2
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 */

/*
* $Id: Version.src 1225426 2011-12-29 04:13:08Z mrglavas $
*/
package org.apache.xalan;

/**
 * Administrative class to keep track of the version number of
* the Xalan release.
* 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>
* 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><B>nn</B>"</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.

```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()
/**
 * 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 ("@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-
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* regarding copyright ownership. The ASF licenses this file
* to you under the Apache License, Version 2.0 (the "License");
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
 * <CODE>"<B>Serializer</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()+".+releaseVersionNum()+=\n
    +( (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());
}

public static String getProduct() {
    return "Serializer";
}

public static String getImplementationLanguage() {
    return "Java";
}

public static int getMajorVersionNum() {
    return @version.VERSION@;
}

/*
 * Name of product: Serializer.
 */

/*
 * Implementation 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
 * may have changed.
 */

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

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 * limitations under the License.
 */

/**
 * 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
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.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). */

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xpath/compiler/FunctionTable.java
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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-2-7-2-sources-
  jar/org/apache/xalan/res/XSLTInfo.properties
* /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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*/

/ *
* $Id: xpath.cup 1225752 2011-12-30 04:12:46Z mrglavas $ *
*/

/ *
* @author Jacek Ambroziak
* @author Santiago Pericas-Geertsen
* @author Morten Jorgensen
* @author G. Todd Miller
*/
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.
   */
   private Parser _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 ":@*". 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;

            return new StepPattern(axis, nodeType, predicates);
        }

        return new StepPattern(axis, nodeType, predicates);
    }
else if (test instanceof Integer) {
    nodeType = ((Integer) test).intValue();

    return new StepPattern(axis, nodeType, predicates);
} else {
    QName name = (QName)test;
    boolean setPriority = false;

    if (axis == Axis.NAMESPACE) {
        nodeType = (name.toString().equals("*") ? -1:
                   _xsltc.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))));
        }

        if (local.equals("*")) {
            nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
                     : NodeTest.ELEMENT;
        } else if (local.equals("@*")) {
            nodeType = NodeTest.ATTRIBUTE;
        } else {
            nodeType = (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
                     : _xsltc.registerElement(name);
        }
    }
}
final StepPattern result = new StepPattern(axis, nodeType, predicates);

    // Set priority for case prefix:* and prefix:@* (no predicates)
    if (setPriority) {
        result.setPriority(-0.25);
    }

    return result;
}

public int findNodeType(int axis, Object test) {
    if (test == null) {  // *
        return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
            (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
    }
    else if (test instanceof Integer) {
        return ((Integer)test).intValue();
    }
    else {
        QName name = (QName)test;

        if (axis == Axis.NAMESPACE) {
            return (name.toString().equals("*")) ? -1 :
                _xsltc.registerNamespacePrefix(name);
        }

        if (name.getNamespace() == null) {
            final String local = name.getLocalPart();

            if (local.equals("*")) {
                return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
                    NodeTest.ELEMENT;
            }
            else if (local.equals("@*")) {
                return NodeTest.ATTRIBUTE;
            }
        }

        return (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name) :
            _xsltc.registerElement(name);
    }
}

/**
 * Parse the expression passed to the current scanner. If this
 * expression contains references to local variables and it will be
public Symbol 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;
}

/**
* Lookup a variable or parameter in the symbol table given its name.
*
* @param name Name of the symbol being looked up.
*/
final SyntaxTreeNode 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));
}

public final void 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 DCOLON;

start with TopLevel;

TopLevel ::= PATTERN Pattern:pattern
  { : RESULT = pattern; : }
  | EXPRESSION Expr:expr
  { : RESULT = expr; : };

/* --------------------------- Patterns ----------------------------------- */

Pattern ::= LocationPathPattern:lpp
  { : RESULT = lpp; : }
  | LocationPathPattern:lpp VBAR Pattern:p
{: RESULT = new AlternativePattern(ipp, 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
{: RESULT = new ParentPattern(sp, rpp); :}

| StepPattern:sp DSLASH RelativePathPattern:rpp
{: RESULT = new AncestorPattern(sp, rpp); :};

StepPattern ::= NodeTestPattern:nt
{: RESULT = parser.createStepPattern(Axis.CHILD, nt, null);
    :}
```java
| 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
|   {: RESULT = new Integer(NodeTest.ANODE); :}

| TEXT
|   {: RESULT = new Integer(NodeTest.TEXT); :}

| COMMENT
|   {: RESULT = new Integer(NodeTest.COMMENT); :}

| PI
|   {: RESULT = new Integer(NodeTest.PI); :};
```
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.insertElementAt(p, 0); RESULT = pp; : };

Predicate ::= LBRACK Expr:e RBRACK
    { :
      RESULT = new Predicate(e);
      :
    }

/* --------------------------- Expressions --------------------------------- */

Expr ::= OrExpr:ex
    { : RESULT = ex; : };

OrExpr ::= AndExpr:ae
    { : RESULT = ae; : }

| OrExpr:oe OR AndExpr:ae
    { : RESULT = new LogicalExpr(LogicalExpr.OR, oe, ae); : };

AndExpr ::= EqualityExpr:e
    { : RESULT = e; : }

| AndExpr:ae AND EqualityExpr:ee
    { : RESULT = new LogicalExpr(LogicalExpr.AND, ae, ee); : };

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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

UnionExpr ::= PathExpr:pe

PathExpr:pe VBAR UnionExpr:rest

PathExpr ::= LocationPath:lp

LocationPath ::= RelativeLocationPath:rlp

AbsoluteLocationPath:alp

RelativeLocationPath ::= Step:step
<table>
<thead>
<tr>
<th>RelativeLocationPath:rlp SLASH Step:step</th>
</tr>
</thead>
<tbody>
<tr>
<td>if (rlp instanceof Step &amp; (Step) rl.p.isAbbreviatedDot()) {</td>
</tr>
<tr>
<td>RESULT = step; // Remove './' from the middle</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>else if (((Step) step).isAbbreviatedDot()) {</td>
</tr>
<tr>
<td>RESULT = rl.p; // Remove '//' from the end</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>else {</td>
</tr>
<tr>
<td>RESULT =</td>
</tr>
<tr>
<td>new ParentLocationPath((RelativeLocationPath) rlp, step);</td>
</tr>
<tr>
<td>}</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>AbbreviatedRelativeLocationPath:arlp</th>
</tr>
</thead>
</table>
| : RESULT = arlp; : |}

AbsoluteLocationPath ::= SLASH |
|-----------------------------|
| : RESULT = new AbsoluteLocationPath(); : |}

<table>
<thead>
<tr>
<th>SLASH RelativeLocationPath:rlp</th>
</tr>
</thead>
</table>
| : RESULT = new AbsoluteLocationPath(rlp); : |}

<table>
<thead>
<tr>
<th>AbbreviatedAbsoluteLocationPath:aalp</th>
</tr>
</thead>
</table>
| : RESULT = aalp; : |}

AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSLASH Step:step |
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>:</td>
</tr>
<tr>
<td>final Step right = (Step)step;</td>
</tr>
<tr>
<td>final int axis = right.GetAxis();</td>
</tr>
<tr>
<td>final int type = right.getNodeType();</td>
</tr>
<tr>
<td>final Vector predicates = right.getPredicates();</td>
</tr>
<tr>
<td>if ((axis == Axis.CHILD) &amp; (type != NodeTest.ATTRIBUTE)) {</td>
</tr>
<tr>
<td>// Compress 'child:E' into 'descendant::E' - if possible</td>
</tr>
<tr>
<td>if (predicates == null) {</td>
</tr>
<tr>
<td>right.setAxis(Axis.DESCENDANT);</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>else {</td>
</tr>
<tr>
<td>// Expand 'child::E' into 'descendant::E'</td>
</tr>
<tr>
<td>RelativeLocationPath left = (RelativeLocationPath)rlp;</td>
</tr>
<tr>
<td>RESULT = new ParentLocationPath(left, right);</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>else {</td>
</tr>
<tr>
<td>// Expand 'step' -&gt; 'descendant-or-self::*'</td>
</tr>
<tr>
<td>RESULT = RLP(Step, Step);</td>
</tr>
<tr>
<td>}</td>
</tr>
</tbody>
</table>
if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {
    Step left = new Step(Axis.DESCENDANTORSELF, DTM.ELEMENT_NODE, null);
    RESULT = new ParentLocationPath(left, right);
} else {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::*//step'
    RelativeLocationPath left = (RelativeLocationPath) rlp;
    ParentLocationPath ppl = new ParentLocationPath(mid, right);
    RESULT = new ParentLocationPath(left, ppl);
}
else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::*//step'
    RelativeLocationPath left = (RelativeLocationPath) rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF, DTM.ELEMENT_NODE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
} else {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::node()/step'
    RelativeLocationPath left = (RelativeLocationPath) rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF, DOM.NO_TYPE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}:

AbbreviatedAbsoluteLocationPath ::= 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);
    RESULT = new AbsoluteLocationPath(parser.insertStep(step,
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
{: 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(Aaxis.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
{ : RESULT = new Integer(Axis.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 ::= 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

PrimExpr:primary Predicates:pp
    { : RESULT = new FilterExpr(primary, pp); : };
\begin{verbatim}

:: 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);
}
\end{verbatim}
} 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(NotExist.TRANSLET_URI, "xslt", "cast").equals(fname)) {
    RESULT = new CastCall(fname, argl);
}

// Special case for extension function nodeset()
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
| Argument:arg COMMA NonemptyArgumentList:argl
{| : argl.insertElementAt(arg, 0); RESULT = argl; :};

FunctionName ::= QName:fname
| { : RESULT = fname; :};

VariableName ::= QName:vname
| { : RESULT = vname; :};

Argument ::= Expr:ex
| { : RESULT = ex; :};

NodeTest ::= NameTest: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/xsltc/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
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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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*/

/**
* Execute the proprietary document-location() function, which returns
* a node set of documents.
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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 */

package org.apache.xalan.xsltc.compiler;

class XPathLexer {

        import java_cup.runtime.Symbol;
        
        %cup
        %unicode
        %class XPathLexer
        %yyleof

        {
            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 '('
    return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':' ||
            yy_buffer[index] == '(') ?
            newSymbol(ss) : 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.DSLASH:
  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.DSLASH:
    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);
}
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%

%yyylexthrow{
Exception
%yyylexthrow%

Letter={BaseChar}|{Ideographic}

BaseChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u00FF\u0100-\u0131\u0134-\u013E\u0141-\u0148\u014A-\u017E\u0180-\u01C3\u01CD-\u01F0\u01F4-\u01F5\u01FA-\u0217\u0250-\u02A8\u02BB-\u02C1\u0386-\u0388-\u038A\u038Cu038E-\u03A1\u03A3-\u03CE\u03D0-\u03D6\u03DC-\u03DE\u03E0-\u03F3-\u0401-\u040C-\u0421-\u042B-\u043D-\u043F-\u0441-\u0451-\u045C-\u045E-\u0461-\u0471-\u047B-\u047D-\u0481-\u0487-\u0490-\u04C4-\u04CB-\u04D0-\u04E2-\u04E8-\u04F9-\u0531-\u0559-\u0561\u0563-\u0575-\u0581-\u0591-\u0593\u0595\u059F-\u05A1-\u05A3\u05A5-\u05A7-\u05A9-\u05AA-\u05AC-\u05AD-\u05AE-\u05AF-\u05C5-\u05C7-\u05CD-\u05CF-\u05C1-\u05C3-\u05C5-\u05C7-\u05C9-\u05CA-\u05CC-\u05CE-\u05D0-\u05D2-\u05D4-\u05D6-\u05D8-\u05DD-\u05E0-\u05E2-\u05E4-\u05E6-\u05E8-\u05EA-\u05EC-\u05F0-\u05F2-\u05F4-\u05F6-\u05F9}
"="                      { 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.VBAR); } 
"$"                      { 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"+[ \t\n\r\f\"]+"()"  { return newSymbol(sym.TEXT); } 
"node()"                 { return newSymbol(sym.NODE); } 
"node"+[ \t\n\r\f\"]+"()"  { return newSymbol(sym.NODE); } 
"comment()"              { return newSymbol(sym.COMMENT); } 
"comment"+[ \t\n\r\f\"]+"()"  { return newSymbol(sym.COMMENT); } 
"processing-instruction" { return disambiguateAxisOrFunction(sym.PIPARAM); } 
"processing-instruction()" { return newSymbol(sym.PI); } 
"processing-instruction"+[ \t\n\r\f\"]+"()"  { 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(sym.FOLLOWING); } 
"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.PRECEDEINGSIBLING); } 
"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); } 
\"[^\"]*\"               { return newSymbol(sym.Literal, 
yytext().substring(1, yytext().length() - 1)); } 
\[\[^
\]\]               { 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()); } 
\{"NCName\}":\"\*"      { return newSymbol(sym.QNAME, yytext()); } 
\{"NCName\}":\"@\*"    { return newSymbol(sym.QNAME, yytext()); } 
[ \t\n\f]             /* 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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*/ 
/*/ 
* $Id: XSLProcessorVersion.src 468640 2006-10-28 06:53:53Z minchau $ 
*/ 
package org.apache.xalan.processor; 
/**
* Administrative class to keep track of the version number of
  * the Xalan release.
  * <P>See also: org/apache/xalan/res/XSLTInfo.properties</P>
  * @deprecated To be replaced by org.apache.xalan.Version.getVersion()
  * @xsl.usage general
  */

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
 * may have changed.
 */
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.
 */
public static final int RELEASE = @version.RELEASE@;

public static final int MAINTENANCE = @version.MINOR@;

public static final int DEVELOPMENT = 0;

public static final String S_VERSION = PRODUCT + " " + LANGUAGE + " v." + VERSION + "." + RELEASE + "." + (DEVELOPMENT > 0 ? "D" + DEVELOPMENT : "" + MAINTENANCE));
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* /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
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/patterns/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/objects/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/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/compiler/Keywords.java

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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/xsltc/compiler/Choose.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/templates/ElemFallback.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/XalanProperties.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/KeyIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/Hashtable.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/UnionIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/NthIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Stylesheet.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ErrorMessages_zh_TW.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/IntExpr.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Fallback.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xslt/runtime/ErrorMessages_ja.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xml/utils/DOMOrder.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xslt/compiler/LangCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/extensions/ExtensionsTable.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/compiler/CastExpr.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/extensions/ExtensionNamespaceSupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xml/utils/ObjectFactory.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/trace/EndSelectionEvent.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/templates/WhiteSpaceInfo.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/templates/AVTPartXPath.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xml/utils/res/CharArrayWrapper.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xml/serializer/utils/SerializerMessages_zh_TW.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xpath/operations/Comparisons.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xpath/operations/Plus.java

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xml/dtm/ref/CustomStringPool.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xslt/dom/DOMWSFilter.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemCallTemplate.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/SourceLoader.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/dom/NodeSortRecordFactory.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/StylesheetRoot.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/LastCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/SortingIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/XPathParser.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/WriterToUTF8Buffered.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/NotCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/StringCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/NotCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/StringCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/XConnection.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Include.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Variable.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/MethodType.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/AbsolutePathPattern.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/FilterExpr.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/FilterExpr.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/FilterExpr.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/FilterExpr.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/ObjectPool.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/IllegalCharException.java

1.220 retrying 1.3.3

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AES in libhcrypto

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rijndael-alg-fst.c

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@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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kdc/announce.c

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DES core in libcrypto

D3DES (V5.09) -

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Written with Symantec’s THINK (Lightspeed) C by Richard Outerbridge.
Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

(GENie : OUTER; CIS : [71755,204]) Graven Imagery, 1992.

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Windows support

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lib/hcrypto/test_dh.c

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1.223 python3-cffi-backend 1.14.0 1build1

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1.226 python3-atomicwrites 1.1.5-2build1

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1.227 python-defaults 3.8.2-0ubuntu2

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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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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").

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.
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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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

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

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

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entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to 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.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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.

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.

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.

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

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library 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
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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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For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

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.

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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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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.

The Corresponding Source for a work in source code form is that same work.

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5. Conveying Modified Source Versions.

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

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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 beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

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

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

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

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1.230 python3-bs4 4.8.2-1

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1.232 libasound 1.2.2 2.1ubuntu2.5

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state 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 program's name and a brief idea of what it does.>
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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.

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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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If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

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src/libsodium/crypto_onetimeauth/poly1305/53/auth_poly1305_53.c
src/libsodium/crypto_stream/salsa20/ref/stream_salsa20_ref.c
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Appendix: How to Apply These Terms to Your New Programs

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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.

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# Build-Essential Debian Packages

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1.260 libheimbaseheimdal 7.7.0+dfsg-1ubuntu1

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AES in libhcrypto

rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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DES core in libhcrypto

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D3DES (V5.09) -

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1.262 libjpeg-turbo 2.0.3-0ubuntu1.20.04.1

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1.263 webencodings 0.5.1
1.263.1 Available under license:
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Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-
  0.5.1/webencodings/x_user_defined.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-
  0.5.1/webencodings/tests.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-
  0.5.1/webencodings/labels.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-
  0.5.1/webencodings/__init__.py
No license file was found, but licenses were detected in source scan.

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(), re).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',
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 = [""
    "
webencodings.labels
~~~~~~~~~~~~~~

Map encoding labels to their name.

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# 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)
    parts.append('}
    return ''.join(parts)

if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1-1.tar.gz/webencodings-0.5.1/webencodings/mklabels.py
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1
Name: webencodings
Version: 0.5.1
Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
Author: Geoffrey Sneddon
Author-email: me@gsnedders.com
License: BSD
Description: 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
* 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 overriding rules.
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 Pythons.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
python-webencodings

This is a Python implementation of the `WHATWG Encoding standard <http://encoding.spec.whatwg.org/>`_.

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* Source code and issue tracker: https://github.com/gsnedders/python-webencodings
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* Python 2.6+ and 3.3+

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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 Pythons.

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1.264 libisl22 0.22.1-1

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1.265 python 3.8.10-0ubuntu1~20.04.2

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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.

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<table>
<thead>
<tr>
<th>Release</th>
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<th>Year</th>
<th>Owner</th>
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<td>PSF</td>
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<td>yes</td>
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<td>2001</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.1.2</td>
<td>2.1</td>
<td>2002</td>
<td>PSF</td>
<td>yes</td>
</tr>
</tbody>
</table>
2.1.3  2.1.2  2002  PSF  yes
2.2 and above  2.1.1  2001-now  PSF  yes

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1.269 openssl 1.1.1l

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

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Version 2.1, February 1999

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Ty Coon, President of Vice

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 *
 */

This is the Debian GNU/Linux prepackaged version of the GNU compiler
collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C,
Objective-C++, and Modula-2 compilers, documentation, and support
libraries. In addition, Debian provides the gm2 compiler, either in
the same source package, or built from a separate same source package.
Packaging is done by the Debian GCC Maintainers
<debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/  (for full releases)
svn://gcc.gnu.org/svn/gcc/        (for prereleases)
ftp://sourceware.org/pub/newlib/  (for newlib)
git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-10 source package is taken from the SVN gcc-10-branch.
Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

<table>
<thead>
<tr>
<th>Language</th>
<th>Compiler package</th>
<th>Library package</th>
<th>Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ada</td>
<td>gnat-10</td>
<td>libgnat-10</td>
<td>gnat-10-doc</td>
</tr>
<tr>
<td>BRIG</td>
<td>gccbrig-10</td>
<td>libhsail-rt0</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>gcc-10</td>
<td>gcc-10-doc</td>
<td></td>
</tr>
<tr>
<td>C++</td>
<td>g++-10</td>
<td>libstdc++6</td>
<td>libstdc++6-10-doc</td>
</tr>
<tr>
<td>D</td>
<td>gdc-10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fortran 95</td>
<td>gfortran-10</td>
<td>libgfortran5</td>
<td>gfortran-10-doc</td>
</tr>
<tr>
<td>Go</td>
<td>gccgo-10</td>
<td>libgo0</td>
<td></td>
</tr>
<tr>
<td>Objective C</td>
<td>gobjc-10</td>
<td>libobjc4</td>
<td></td>
</tr>
<tr>
<td>Objective C++</td>
<td>gobjc++-10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Modula-2</td>
<td>gm2-10</td>
<td>libgm2</td>
<td></td>
</tr>
</tbody>
</table>

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

<table>
<thead>
<tr>
<th>Language</th>
<th>Sources</th>
<th>Development</th>
<th>Debugging</th>
<th>Position-Independent</th>
</tr>
</thead>
<tbody>
<tr>
<td>C++</td>
<td>libstdc++6-10-dbg</td>
<td>libstdc++6-10-pic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>libphobos-10-dev</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Additional packages include:

All languages:
libgcc1, libgcc2, libgcc4  GCC intrinsics (platform-dependent)
gcc-10-base  Base files common to all compilers
gcc-10-soft-float  Software floating point (ARM only)
gcc-10-source  The sources with patches

Ada:
libgnat-util10-dev, libgnat-util10  GNAT version library

C:
cc-10, cc-10-doc  GNU C Preprocessor
libssp0-dev, libssp0  GCC stack smashing protection library
libquadmath0  Math routines for the __float128 type
fixincludes  Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1GCC  OpenMP (GOMP) support library
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D:
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The D source package is made up of the following components.

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@example
one line to give the program's name and a brief idea of what it does.

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@end example

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@example
program Copyright (C) @var{year} @var{name of author}

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@end example

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========

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

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Email local part: ph10
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Written by: Zoltan Herczeg
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 * /

[zlib]

/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.3, July 18th, 2005

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

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[edoc, syntax_tools]

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[eunit]

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[eldap]

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***************************************************************************
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1.284 servlet-api 3.1.0

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1.287 jackson-dataformat-yaml 2.11.2

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1.288 pynacl 1.3.0

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Contributors
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- Chris McDonough, 2011/02/16
- Wichert Akkerman, 2012/02/02

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contextlib2 is a derivative of the contextlib module distributed by the PSF as part of the Python standard library. According, it is itself redistributed under the PSF license (reproduced in full below). As the contextlib module
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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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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnsi.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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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.

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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
-------
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/about/index.html'.

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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

**XML Remote Procedure Calls**

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

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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, 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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1.298 python-cffi 1.14.0-1build1

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1.299 libxmuu 1.1.3-0ubuntu1

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1.301 mime-support 3.64ubuntu1

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1.303 jetty-continuation 9.4.16.v20190411

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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
Apache

The following artifacts are ASL2 licensed.

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

MortBay

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

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

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

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.304.1 Available under license:
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1.305 cpp-9 9.4.0-1ubuntu1~20.04.1
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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========

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SIGNATURE OF TY COON, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This is the Debian GNU/Linux prepackaged version of the GNU compiler collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C,
Objective-C++, and Modula-2 compilers, documentation, and support libraries. In addition, Debian provides the gm2 compiler, either in the same source package, or built from a separate same source package. Packaging is done by the Debian GCC Maintainers <debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
svn://gcc.gnu.org/svn/gcc/ (for prereleases)
ftp://sourceware.org/pub/newlib/ (for newlib)
git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-9 source package is taken from the SVN gcc-9-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

<table>
<thead>
<tr>
<th>Language</th>
<th>Compiler package</th>
<th>Library package</th>
<th>Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ada</td>
<td>gnat-9</td>
<td>libgnat-9</td>
<td>gnat-9-doc</td>
</tr>
<tr>
<td>BRIG</td>
<td>gccbrig-9</td>
<td>libhsail-rt0</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>gcc-9</td>
<td>gcc-9-doc</td>
<td></td>
</tr>
<tr>
<td>C++</td>
<td>g++-9</td>
<td>libstdc++6</td>
<td>libstdc++6-9-doc</td>
</tr>
<tr>
<td>D</td>
<td>gdc-9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fortran 95</td>
<td>gfortran-9</td>
<td>libgfortran3</td>
<td>gfortran-9-doc</td>
</tr>
<tr>
<td>Go</td>
<td>gccgo-9</td>
<td>libgo0</td>
<td></td>
</tr>
<tr>
<td>Objective C</td>
<td>gobjc-9</td>
<td>libobjc2</td>
<td></td>
</tr>
<tr>
<td>Objective C++</td>
<td>gobjc++-9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Modula-2</td>
<td>gm2-9</td>
<td>libgm2</td>
<td></td>
</tr>
</tbody>
</table>

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

<table>
<thead>
<tr>
<th>Language</th>
<th>Sources</th>
<th>Development</th>
<th>Debugging</th>
<th>Position-Independent</th>
</tr>
</thead>
<tbody>
<tr>
<td>C++</td>
<td></td>
<td>libstdc++6-9 dbg libstdc++6-9-pic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td></td>
<td>libphobos-9-dev</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Additional packages include:

All languages:
libgcc1, libgcc2, libgcc4  GCC intrinsics (platform-dependent)
gcc-9-base  Base files common to all compilers
gcc-9-soft-float  Software floating point (ARM only)
gcc-9-source  The sources with patches
Ada:
libgnatvsn-dev, libgnatvsn9   GNAT version library

C:
cpp-9, cpp-9-doc            GNU C Preprocessor
libssp0-dev, libssp0        GCC stack smashing protection library
libquadmath0                 Math routines for the __float128 type
fixincludes                 Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1GCC OpenMP (GOMP) support library
libitm1-dev, libitm1        GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libatomic
- libdecrnumber
- libgomp
- libitm
- libssp
- libstdc++-v3
- libobjc
- libgfortran
- The libgnat-9 Ada support library and libgnatvsn library.
- Various config files in gcc/config/ used in runtime libraries.
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Developed by:

LLVM Team

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Written by Tobias Burnus <burnus@net-b.de>

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1.307 jakarta-ws-rs-api 2.1.5

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* https://github.com/eclipse-ee4j/jaxrs-api

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

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* org.eclipse.jetty.orbit:javasecurity.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javamail.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

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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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1.312 diffutils 3.7-3
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The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the
``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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  @item
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  @item
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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.)
@end enumerate

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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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@item
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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

@item
A program that contains no derivative of any portion of the
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linked with it, is called a "work that uses the Library". Such a
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therefore falls outside the scope of this License.

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

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that is part of the Library, the object code for the work may be a
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Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

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

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

@item
As an exception to the Sections above, you may also combine or
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directing the user to the copy of this License. Also, you must do one
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@enumerate a
@item
Accompany the work with the complete corresponding
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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
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@item
Use a suitable shared library mechanism for linking with the Library. A
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properly with a modified version of the library, if the user installs
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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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@end enumerate
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The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
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special exception, the source code distributed need not include
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@end smallexample

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This is the Debian GNU/Linux prepackaged version of the GNU compiler collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C, Objective-C++, and Modula-2 compilers, documentation, and support libraries. In addition, Debian provides the gm2 compiler, either in the same source package, or built from a separate same source package. Packaging is done by the Debian GCC Maintainers <debian-gcc@lists.debian.org>, with sources obtained from:

- ftp://gcc.gnu.org/pub/gcc/releases/  (for full releases)
- svn://gcc.gnu.org/svn/gcc/    (for prereleases)
- ftp://sourceware.org/pub/newlib/ (for newlib)
- git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-9 source package is taken from the SVN gcc-9-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

<table>
<thead>
<tr>
<th>Language</th>
<th>Compiler package</th>
<th>Library package</th>
<th>Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ada</td>
<td>gnat-9</td>
<td>libgnat-9</td>
<td>gnat-9-doc</td>
</tr>
<tr>
<td>BRIG</td>
<td>gccbrig-9</td>
<td>libhsail-rt0</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>gcc-9</td>
<td></td>
<td>gcc-9-doc</td>
</tr>
<tr>
<td>C++</td>
<td>g++-9</td>
<td>libstdc++6</td>
<td>libstdc++6-9-doc</td>
</tr>
<tr>
<td>D</td>
<td>gdc-9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fortran 95</td>
<td>gfortran-9</td>
<td>libgfortran3</td>
<td>gfortran-9-doc</td>
</tr>
<tr>
<td>Go</td>
<td>gccgo-9</td>
<td>libgo0</td>
<td></td>
</tr>
<tr>
<td>Objective C</td>
<td>gobjc-9</td>
<td>libobjc2</td>
<td></td>
</tr>
</tbody>
</table>
Objective C++  gobjc++-9
Modula-2       gm2-9     libgm2

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

<table>
<thead>
<tr>
<th>Language</th>
<th>Sources</th>
<th>Development</th>
<th>Debugging</th>
<th>Position-Independent</th>
</tr>
</thead>
<tbody>
<tr>
<td>C++</td>
<td>libstdc++6-9-dbg</td>
<td>libstdc++6-9-pic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>libphobos-9-dev</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Additional packages include:

All languages:
libgcc1, libgcc2, libgcc4  GCC intrinsics (platform-dependent)
gcc-9-base       Base files common to all compilers
gcc-9-soft-float Software floating point (ARM only)
gcc-9-source     The sources with patches

Ada:
libgnatvsn-dev, libgnatvsn9  GNAT version library

C:
cpp-9, cpp-9-doc  GNU C Preprocessor
libssp0-dev, libssp0  GCC stack smashing protection library
libquadmath0  Math routines for the __float128 type
fixincludes     Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1GCC OpenMP (GOMP) support library
libitm1-dev, libitm1GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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  /gcc/emults.c, /gcc/gbl-ctors.h, /gcc/gcov-io.h, /gcc/libgcov.c,
  /gcc/tsystem.h, /gcc/typeclass.h).
- libatomic
- libdecnumber
- libgomp
- libitm
- libssp
- libstdc++-v3
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The Phobos standard runtime library:
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iconv (Charset Conversion Library) v2.0

(27) Artem Bityuckiy (--enable-newlib-iconv)

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# Contributions to the urllib3 project

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  * 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/@WBRSRIBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
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* Thomas Kluyver <thomas@kluyver.me.uk>
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* 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 <https://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

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  * 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 <https://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 <https://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

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* 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

* Jess 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

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.
* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix `util.selectors._fileobj_to_fd` to accept ``long``.
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to `contrib.securetransport`

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add `HTTPResponse.geturl` method to provide `urllib2.urlopen().geturl` behavior

* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
  * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
  * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
  * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
  * Remove Authorization header regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
  * Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonk@gmail.com>
  * Remove a spurious TypeError from the exception chain inside `HTTPConnectionPool._make_request()`, also for BaseExceptions.

* [Your name or handle] <[email or website]>
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1.329 debianutils 4.9.1

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Found in path(s):
  * /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-jar/javassist/bytecode/InnerClassesAttribute.java
  * /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/Subroutine.java
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  * /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/Transformer.java
  * /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/SyntheticAttribute.java
  * /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/reflect/Reflection.java
  * /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/expr/Instanceof.java
  * /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/SecurityActions.java
  * /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ByteStream.java
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  * /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/reflect/CannotReflectException.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/IntConst.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/AnnotationDefaultAttribute.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Variable.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/Mnemonic.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/ClassLoader.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformBefore.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/JvstTypeChecker.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/LoaderClassLoader.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ParameterAnnotationsAttribute.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/ArrayInit.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/ClassPool.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/ASTList.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ExceptionsAttribute.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ASTree.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/Mnemonic.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/ClassLoader.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/ArrayInit.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/reflect/Loader.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformWriteField.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ConstPool.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/Type.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/StackMapTable.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/util/HotSwapAgent.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/MemberCodeGen.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/ClassMap.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/CompileError.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/rmi/RemoteException.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ConstantAttribute.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/AccessorMaker.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/SerializedProxy.java
1.331 grep 3.4 1

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https://github.com/jersey/jersey.git

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1.339 ca-certificates-java 20190405ubuntu1

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This package was debianized by Matthias Klose <doko@ubuntu.com> on Mon, 02 Jun 2008 14:52:46 +0000.

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1.340 pinentry 1.1.0-3build1

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1.341 distlib 0.3.0

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Pytho 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.

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import re

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    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',
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'Programming Language :: Python :: 3.4',
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'Programming Language :: Python :: 3.6',
'Programming Language :: Python :: Implementation :: CPython',
'Programming Language :: Python :: Implementation :: PyPy',
'Topic :: Internet :: WWW/HTTP',
],
packages=find_packages(),
)

Found in path(s):
* /opt/cola/permits/1237521190_1638818144.43/0/python-webencodings-0-5-1-orig-tar-gz/webencodings-0.5.1/setup.py
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===

webencodings.mklable
~~~~~~~~~~~~~~~~~~

Regenerate the webencodings.labels module.

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===

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 = ['

    webencodings.labels
    ~~~~~~~~~~~~~~~

    Map encoding labels to their name.

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    # 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,
        for label, name in labels)
    parts.append('}
    return ''.join(parts)

if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))

Found in path(s):
    * /opt/cola/permits/1237521190_1638818144.43/0/python-webencodings-0.5.1-orig-tar-gz/webencodings-0.5.1/webencodings/mklabels.py
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1
Name: webencodings
Version: 0.5.1
Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
Author: Geoffrey Sneddon
Author-email: me@gsnedders.com
License: BSD
Description: 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
* 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 overriding rules. 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 Pythons.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Internet :: WWW/HTTP

Found in path(s):
* /opt/cola/permits/1237521190_1638818144.43/0/python-webencodings-0-5-1-orig-tar-gz/webencodings-0.5.1/PKG-INFO
* /opt/cola/permits/1237521190_1638818144.43/0/python-webencodings-0-5-1-orig-tar-gz/webencodings-0.5.1/PKG-INFO
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.

Found in path(s):
* /opt/cola/permits/1237521190_1638818144.43/0/python-webencodings-0.5.1-orig-tar-gz/webencodings-0.5.1/README.rst

**1.348 libsmi 0.4.8**

**1.348.1 Available under license:**

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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/
Alternate-site: sunsite.unc.edu /pub/Linux/libs
shhopt-1.1.2.tar.gz
Platforms: Requires ANSI C-compiler.
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------------------------------------------------------------------------------

1.349 ncurses 6.2-0ubuntu2
1.349.1 Available under license:
Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

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

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Upstream source https://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

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

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-- vile: txtmode file-encoding=utf-8
Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

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1.351 bash 5.0 6ubuntu1.1

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@copynext
@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto
AES in libhcrypto

@verbatim
rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@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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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.


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Python License
===============

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

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

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

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

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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
------

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/about/index.html'.

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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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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
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In May 2000, Guido and the Python core development team moved to
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1.355 commons-beanutils 1.9.4

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 * command :
 *  $ ./checkTag tag
 * checkTag validates tags of following format : v[0-9].[0-9].[0-9]{any}
 * The tag is then compared to zstd version number.
 * They are compatible if first 3 digits are identical.
 * Anything beyond that is free, and doesn't impact validation.
 * Example : tag v1.8.1.2 is compatible with version 1.8.1
 * When tag and version are not compatible, program exits with error code 1.
 * When they are compatible, it exists with a code 0.
 * checkTag is intended to be used in automated testing environment.
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heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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rijndael-alg-fst.c

version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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DES core in libhcrypto

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D3DES (V5.09) -

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lib/hcrypto/test_dh.c

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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.

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

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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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1.364 python3-nacl 1.3.0-5

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1.377 libquadmath 10.3.0-1ubuntu1~20.04

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