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Text Part Number: 78EE117C99-1088661825
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5.1.42

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1.17 guava 29.0-jre

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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/io/PatternFilenameFilter.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/FuturesGetChecked.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/escape/CharEscaper.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
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/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
 * following header:
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*/

/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned array.
 */
This method assumes that the collection size doesn't change while the method is running.

TODO(kevinb): support concurrently modified collections?

@ kotlinx.collections.immutable.Matrix

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 * Holder for web specializations of methods of [Floats]. Intended to be empty for regular
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  jar/com/google/common/collection/NaturalOrdering.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/collection/AbstractMultiset.java
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/*
 * This following method is a modified version of one found in
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2- 
  jar/com/google/common/graph/package-info.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2- 
  jar/com/google/common/coll/collect/Immuta/MapFauxverideShim.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2- 
  jar/com/google/common/coll/CollectSpliterators.java
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  jar/com/google/common/util/concurrent/Internal.java

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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collections/ContiguousSet.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/primitives/package-info.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/ListeningExecutorService.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collections/SortedLists.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/UncaughtExceptionHandlers.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/annotations/package-info.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/base/Equivalence.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/Monitor.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/annotations/package-info.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/Atomics.java
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jar/com/google/common/collection/SortedMapDifference.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collection/ForwardingSortedSetMultimap.java
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jar/com/google/common/collection/UnmodifiableListIterator.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collection/ForwardingSetMultimap.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/graph/StandardValueGraph.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/graph/EndpointPair.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/graph/GraphConnections.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/RangeGwtSerializationDependencies.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/graph/ForwardingGraph.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/graph/NetworkConnections.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/CollectCollectors.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/graph/UndirectedMultiNetworkConnections.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/graph/MultiEdgesConnecting.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/graph/ValueGraphBuilder.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/guava-29-0-jre-sources-2-jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/guava-29-0-jre-sources-2-jar/com/google/common/graph/MapIteratorCache.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/guava-29-0-jre-sources-2-jar/com/google/common/graph/ForwardingNetwork.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/guava-29-0-jre-sources-2-jar/com/google/common/graph/MapRetrievalCache.java
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 * /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/cache/CachingService.java
 * /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/cache/AbstractLoadingCache.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collection/ForwardingSortedMultiset.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/util/concurrent/ForwardingLock.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/primitives/ImmutableDoubleArray.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/primitives/ImmutableIntArray.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/hash/AbstractHashFunction.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/primitives/ImmutableLongArray.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/util/concurrent/ForwardingCondition.java

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*/
/**
* Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}</b>
* key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
* version.
*
* @throws UnsupportedOperationException always
* @deprecated <b>Pass a key of type {@code Comparable} to use {@link
* ImmutableSortedMap#of(Comparable, Object)}.</b>
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collection/ImmutableSortedMapFauxverrideShim.java

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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/ImmutableMapEntry.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/io/MoreFiles.java

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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/ImmutableMapEntry.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/io/MoreFiles.java

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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/ImmutableMapEntry.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/io/RecursiveDeleteOption.java
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 */
/**
 * Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
 * version.
 */

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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
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  jar/com/google/common/graph/AbstractBaseGraph.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/graph/BaseGraph.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/graph/Traverser.java

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  jar/com/google/common/collect/ImmutableBiMap.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/collect/ImmutableMultiset.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/JdkBackedImmutableMultiset.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/ExecutionSequencer.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/JdkBackedImmutableSet.java

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 */
/*
*/
/*
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1.18 nginx 1.18.0-1.el8.ngx

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* /opt/ws_local/PERMITS_SQL/1068497245_1594417766.44/0/netty-codec-socks-4-1-49-final-sources-1-
jar/io/netty/handler/codec/socksx/SocksPortUnificationServerHandler.java
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* /opt/ws_local/PERMITS_SQL/1068497245_1594417766.44/0/netty-codec-socks-4-1-49-final-sources-1-jar/io/netty/handler/codec/socksx/v5/Socks5CommandType.java
* /opt/ws_local/PERMITS_SQL/1068497245_1594417766.44/0/netty-codec-socks-4-1-49-final-sources-1-jar/io/netty/handler/codec/socks/SocksCmdType.java
* /opt/ws_local/PERMITS_SQL/1068497245_1594417766.44/0/netty-codec-socks-4-1-49-final-sources-1-jar/io/netty/handler/codec/socks/SocksAuthScheme.java
* /opt/ws_local/PERMITS_SQL/1068497245_1594417766.44/0/netty-codec-socks-4-1-49-final-sources-1-jar/io/netty/handler/codec/socks/SocksStatus.java
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jar/io/netty/handler/codecsocks/Socks5CommandRequest.java
* /opt/ws_local/PERMITS_SQL/1068497245_1594417766.44/0/netty-codec-socks-4-1-49-final-sources-1-
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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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1.21 jackson-dataformat-smile 2.3.1
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### 1.22 stringprep 1.1

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* /opt/ws_local/PERMITS_SQL/1007103057_1600266384.52/0/json-20140107-sources-jar/org/json/CookieList.java
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1.26 libunistring 0.9.9-3.el8

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=head1 NAME

File::Path - Create or remove directory trees

=head1 VERSION


=head1 SYNOPSIS

use File::Path qw(make_path remove_tree);

@created = make_path('foo/bar/baz', '/zug/zwang');
@created = make_path('foo/bar/baz', '/zug/zwang', { verbose => 1,
mode => 0711, });
make_path('foo/bar/baz', '/zug/zwang', { chmod => 0777,
});
This module provides a convenient way to create directories of arbitrary depth and to delete an entire directory subtree from the filesystem.

The following functions are provided:

=item make_path( $dir1, $dir2, .... )

=item make_path( $dir1, $dir2, ...., %opts )

The C<make_path> function creates the given directories if they don't exist before, much like the Unix command C<mkdir -p>.

The function accepts a list of directories to be created. Its behaviour may be tuned by an optional hashref appearing as the last parameter on the call.

The function returns the list of directories actually created during the call; in scalar context the number of directories created.

The following keys are recognised in the option hash:

=item mode => $num
The numeric permissions mode to apply to each created directory (defaults to 
\texttt{C<0777>>}), to be modified by the current \texttt{C<umask>>}. If the directory already exists (and thus does not need to be created), 
the permissions will not be modified.

\texttt{C<mask>>} is recognised as an alias for this parameter.

\subitem \texttt{chmod => \$num}

Takes a numeric mode to apply to each created directory (not 
modified by the current \texttt{C<umask>>}). If the directory already exists 
(and thus does not need to be created), the permissions will 
not be modified.

\subitem \texttt{verbose => \$bool}

If present, will cause \texttt{C<make_path>>} to print the name of each directory 
as it is created. By default nothing is printed.

\subitem \texttt{error => \$err}

If present, it should be a reference to a scalar. 
This scalar will be made to reference an array, which will 
be used to store any errors that are encountered. See the \texttt{L</"ERROR HANDLING">} section for more information.

If this parameter is not used, certain error conditions may raise 
a fatal error that will cause the program to halt, unless trapped 
in an \texttt{C<eval> block}.

\subitem \texttt{owner => \$owner}

\subitem \texttt{user => \$owner}

\subitem \texttt{uid => \$owner}

If present, will cause any created directory to be owned by \texttt{C<$owner>>}. 
If the value is numeric, it will be interpreted as a uid; otherwise a 
username is assumed. An error will be issued if the username cannot be 
mapped to a uid, the uid does not exist or the process lacks the 
privileges to change ownership.

Ownership of directories that already exist will not be changed.

\texttt{C<user>>} and \texttt{C<uid>>} are aliases of \texttt{C<owner>>}.

\subitem \texttt{group => \$group}
If present, will cause any created directory to be owned by the group
C<$group>. If the value is numeric, it will be interpreted as a gid;
otherwise a group name is assumed. An error will be issued if the
group name cannot be mapped to a gid, the gid does not exist or the
process lacks the privileges to change group ownership.

Group ownership of directories that already exist will not be changed.

    make_path '/var/tmp/webcache', {owner=>'nobody', group=>'nogroup'};

=back

=item mkpath( $dir )

=item mkpath( $dir, $verbose, $mode )

=item mkpath( [$dir1, $dir2,...], $verbose, $mode )

=item mkpath( $dir1, $dir2,..., \%opt )

The C<mkpath()> function provide the legacy interface of
C<make_path()> with a different interpretation of the arguments
passed. The behaviour and return value of the function is otherwise
identical to C<make_path()>.

=item remove_tree( $dir1, $dir2, .... )

=item remove_tree( $dir1, $dir2, ...., \%opts )

The C<remove_tree> function deletes the given directories and any
files and subdirectories they might contain, much like the Unix
command C<rm -rf> or the Windows commands C<rmdir /s> and C<rd /s>.

The function accepts a list of directories to be removed. (In point of fact,
it will also accept filesystem entries which are not directories, such as
regular files and symlinks. But, as its name suggests, its intent is to
remove trees rather than individual files.)

C<remove_tree()>'s behaviour may be tuned by an optional hashref
appearing as the last parameter on the call. If an empty string is
passed to C<remove_tree>, an error will occur.

B<NOTE:> For security reasons, we strongly advise use of the
hashref-as-final-argument syntax -- specifically, with a setting of the C<safe>
element to a true value.

    remove_tree( $dir1, $dir2, ....,
The function returns the number of files successfully deleted.

The following keys are recognised in the option hash:

=over

=item verbose => $bool

If present, will cause C<remove_tree> to print the name of each file as it is unlinked. By default nothing is printed.

=item safe => $bool

When set to a true value, will cause C<remove_tree> to skip the files for which the process lacks the required privileges needed to delete files, such as delete privileges on VMS. In other words, the code will make no attempt to alter file permissions. Thus, if the process is interrupted, no filesystem object will be left in a more permissive mode.

=item keep_root => $bool

When set to a true value, will cause all files and subdirectories to be removed, except the initially specified directories. This comes in handy when cleaning out an application's scratch directory.

    remove_tree('/tmp', {keep_root => 1} );

=item result => \$res

If present, it should be a reference to a scalar. This scalar will be made to reference an array, which will be used to store all files and directories unlinked during the call. If nothing is unlinked, the array will be empty.

    remove_tree('/tmp', {result => \my \$list} );
    print "unlinked \$_\n" for @\$list;

This is a useful alternative to the C<verbose> key.

=item error => \$err
If present, it should be a reference to a scalar. This scalar will be made to reference an array, which will be used to store any errors that are encountered. See the L"ERROR HANDLING" section for more information.

Removing things is a much more dangerous proposition than creating things. As such, there are certain conditions that C<remove_tree> may encounter that are so dangerous that the only sane action left is to kill the program.

Use C<error> to trap all that is reasonable (problems with permissions and the like), and let it die if things get out of hand. This is the safest course of action.

=back

=item rmmtree( $dir )

=item rmmtree( $dir, $verbose, $safe )

=item rmmtree( [dir1, dir2,...], $verbose, $safe )

=item rmmtree( $dir1, $dir2,..., \%opt )

The C<rmmtree()> function provide the legacy interface of C<remove_tree()> with a different interpretation of the arguments passed. The behaviour and return value of the function is otherwise identical to C<remove_tree()>.

B<NOTE>: For security reasons, we strongly advise use of the hashref-as-final-argument syntax, specifically with a setting of the C<safe> element to a true value.

rmmtree( $dir1, $dir2, ....,
        {
            safe => 1,
            ...  # other key-value pairs
        },
    );
=back

=head2 ERROR HANDLING

=over 4

=item B<NOTE:>

The following error handling mechanism is consistent throughout all code paths EXCEPT in cases where the ROOT node is nonexistent. In version 2.11 the maintainers attempted to rectify this inconsistency but too many downstream modules encountered problems. In such case, if you require root node evaluation or error checking prior to calling C<make_path> or C<remove_tree>, you should take additional precautions.

=back

If C<make_path> or C<remove_tree> encounters an error, a diagnostic message will be printed to C<STDERR> via C<carp> (for non-fatal errors) or via C<croak> (for fatal errors).

If this behaviour is not desirable, the C<error> attribute may be used to hold a reference to a variable, which will be used to store the diagnostics. The variable is made a reference to an array of hash references. Each hash contain a single key/value pair where the key is the name of the file, and the value is the error message (including the contents of C<$!> when appropriate). If a general error is encountered the diagnostic key will be empty.

An example usage looks like:

remove_tree( 'foo/bar', 'bar/rat', {error => \my $err} );
if ($err & & @$err) {
  for my $diag (@$err) {
    my ($file, $message) = %$diag;
    if ($file eq ") {
      print "general error: $message\n";
    } else {
      print "problem unlinking $file: $message\n";
    }
  } else {
    print "No error encountered\n";
  }
} else {
  print "No error encountered\n";
}

Note that if no errors are encountered, C<$err> will reference an empty array. This means that C<$err> will always end up TRUE; so you need to test C<@$err> to determine if errors occurred.

=head2 NOTES

C<File::Path> blindly exports C<mkpath> and C<rmtree> into the current namespace. These days, this is considered bad style, but to change it now would break too much code. Nonetheless, you are
invited to specify what it is you are expecting to use:

use File::Path 'rmtree';

The routines C<make_path> and C<remove_tree> are B<not> exported by default. You must specify which ones you want to use.

use File::Path 'remove_tree';

Note that a side-effect of the above is that C<mkpath> and C<rmtree> are no longer exported at all. This is due to the way the C<Exporter> module works. If you are migrating a codebase to use the new interface, you will have to list everything explicitly. But that's just good practice anyway.

use File::Path qw(remove_tree rmtree);

=head3 API CHANGES

The API was changed in the 2.0 branch. For a time, C<mkpath> and C<rmtree> tried, unsuccessfully, to deal with the two different calling mechanisms. This approach was considered a failure.

The new semantics are now only available with C<make_path> and C<remove_tree>. The old semantics are only available through C<mkpath> and C<rmtree>. Users are strongly encouraged to upgrade to at least 2.08 in order to avoid surprises.

=head3 SECURITY CONSIDERATIONS

There were race conditions in the 1.x implementations of File::Path's C<rmtree> function (although sometimes patched depending on the OS distribution or platform). The 2.0 version contains code to avoid the problem mentioned in CVE-2002-0435.

See the following pages for more information:

http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=286905
http://www.nttp.perl.org/group/perl.perl5.porters/2005/01/msg97623.html

Additionally, unless the C<safe> parameter is set (or the third parameter in the traditional interface is TRUE), should a C<remove_tree> be interrupted, files that were originally in read-only mode may now have their permissions set to a read-write (or "delete OK") mode.

The following CVE reports were previously filed against File-Path and are
believed to have been addressed:

=item * L<http://cve.circl.lu/cve/CVE-2004-0452>

=item * L<http://cve.circl.lu/cve/CVE-2005-0448>

In February 2017 the cPanel Security Team reported an additional vulnerability in File-Path. The C<chmod()> logic to make directories traversable can be abused to set the mode on an attacker-chosen file to an attacker-chosen value. This is due to the time-of-check-to-time-of-use (TOCTTOU) race condition (L<https://en.wikipedia.org/wiki/Time_of_check_to_time_of_use>) between the C<stat()> that decides the inode is a directory and the C<chmod()> that tries to make it user-rwx. CPAN versions 2.13 and later incorporate a patch provided by John Lightsey to address this problem. This vulnerability has been reported as CVE-2017-6512.

=head1 DIAGNOSTICS

FATAL errors will cause the program to halt (C<croak>), since the problem is so severe that it would be dangerous to continue. (This can always be trapped with C<eval>, but it's not a good idea. Under the circumstances, dying is the best thing to do).

SEVERE errors may be trapped using the modern interface. If the they are not trapped, or if the old interface is used, such an error will cause the program will halt.

All other errors may be trapped using the modern interface, otherwise they will be C<carp>ed about. Program execution will not be halted.

=item mkdir [path]: [errmsg] (SEVERE)

C<make_path> was unable to create the path. Probably some sort of permissions error at the point of departure or insufficient resources (such as free inodes on Unix).

=item No root path(s) specified

C<make_path> was not given any paths to create. This message is only emitted if the routine is called with the traditional interface. The modern interface will remain silent if given nothing to do.
On Windows, if `C<make_path>` gives you this warning, it may mean that you have exceeded your filesystem's maximum path length.

`C<remove_tree>` attempted to determine the initial directory by calling `C<Cwd::getcwd>`, but the call failed for some reason. No attempt will be made to delete anything.

`C<remove_tree>` attempted to stat the initial directory (after having successfully obtained its name via `C<getcwd>`), however, the call failed for some reason. No attempt will be made to delete anything.

`C<remove_tree>` attempted to set the working directory in order to begin deleting the objects therein, but was unsuccessful. This is usually a permissions issue. The routine will continue to delete other things, but this directory will be left intact.

`C<remove_tree>` recorded the device and inode of a directory, and then moved into it. It then performed a `C<stat>` on the current directory and detected that the device and inode were no longer the same. As this is at the heart of the race condition problem, the program will die at this point.

`C<remove_tree>` recorded the device and inode of a directory, and then moved into it. It then performed a `C<stat>` on the current directory and detected that the device and inode were no longer the same. As this is at the heart of the race condition problem, the program will die at this point.

`C<remove_tree>` attempted to change the permissions on the current directory to ensure that subsequent unlinkings would not run into problems, but was unable to do so. The permissions remain as they were, and the program will carry on, doing the best it can.

`C<remove_tree>` tried to read the contents of the directory in order to acquire the names of the directory entries to be unlinked, but was unsuccessful. This is usually a permissions issue. The program will continue, but the files in this directory will remain after the call.

`C<remove_tree>` recorded the device and inode of a directory, and then moved into it. It then performed a `C<stat>` on the current directory and detected that the device and inode were no longer the same. As this is at the heart of the race condition problem, the program will die at this point.
C<remove_tree>, after having deleted everything in a directory, attempted to restore its permissions to the original state but failed. The directory may wind up being left behind.

=item cannot remove [dir] when cwd is [dir]

The current working directory of the program is F<some/path/to/here> and you are attempting to remove an ancestor, such as F<some/path>. The directory tree is left untouched.

The solution is to C<chdir> out of the child directory to a place outside the directory tree to be removed.

=item cannot chdir to [parent-dir] from [child-dir]: [errmsg], aborting. (FATAL)

C<remove_tree>, after having deleted everything and restored the permissions of a directory, was unable to chdir back to the parent. The program halts to avoid a race condition from occurring.

=item cannot stat prior working directory [dir]: [errmsg], aborting. (FATAL)

C<remove_tree> was unable to stat the parent directory after having returned from the child. Since there is no way of knowing if we returned to where we think we should be (by comparing device and inode) the only way out is to C<croak>.

=item previous directory [parent-dir] changed before entering [child-dir], expected dev=[n] ino=[n], actual dev=[n] ino=[n], aborting. (FATAL)

When C<remove_tree> returned from deleting files in a child directory, a check revealed that the parent directory it returned to wasn't the one it started out from. This is considered a sign of malicious activity.

=item cannot make directory [dir] writeable: [errmsg]

Just before removing a directory (after having successfully removed everything it contained), C<remove_tree> attempted to set the permissions on the directory to ensure it could be removed and failed. Program execution continues, but the directory may possibly not be deleted.

=item cannot remove directory [dir]: [errmsg]

C<remove_tree> attempted to remove a directory, but failed. This may be because some objects that were unable to be removed remain in the directory, or it could be a permissions issue. The directory will be left behind.

=item cannot restore permissions of [dir] to [0nnn]: [errmsg]
After having failed to remove a directory, `remove_tree` was unable to restore its permissions from a permissive state back to a possibly more restrictive setting. (Permissions given in octal).

```plaintext
=item cannot make file [file] writeable: [errmsg]
```

`remove_tree` attempted to force the permissions of a file to ensure it could be deleted, but failed to do so. It will, however, still attempt to unlink the file.

```plaintext
=item cannot unlink file [file]: [errmsg]
```

`remove_tree` failed to remove a file. Probably a permissions issue.

```plaintext
=item cannot restore permissions of [file] to [0nnn]: [errmsg]
```

After having failed to remove a file, `remove_tree` was also unable to restore the permissions on the file to a possibly less permissive setting. (Permissions given in octal).

```plaintext
=item unable to map [owner] to a uid, ownership not changed"
```

`make_path` was instructed to give the ownership of created directories to the symbolic name `[owner]`, but `getpwnam` did not return the corresponding numeric uid. The directory will be created, but ownership will not be changed.

```plaintext
=item unable to map [group] to a gid, group ownership not changed
```

`make_path` was instructed to give the group ownership of created directories to the symbolic name `[group]`, but `getgrnam` did not return the corresponding numeric gid. The directory will be created, but group ownership will not be changed.

=back

=head1 SEE ALSO

=over 4

=item *

L<File::Remove>

Allows files and directories to be moved to the Trashcan/Recycle Bin (where they may later be restored if necessary) if the operating system supports such functionality. This feature may one day be
made available directly in C<File::Path>.

=item *

L<File::Find::Rule>

When removing directory trees, if you want to examine each file to decide whether to delete it (and possibly leaving large swathes alone), F<File::Find::Rule> offers a convenient and flexible approach to examining directory trees.

=back

=head1 BUGS AND LIMITATIONS

The following describes F<File::Path> limitations and how to report bugs.

=head2 MULTITHREADED APPLICATIONS

F<File::Path> C<rmtree> and C<remove_tree> will not work with multithreaded applications due to its use of C<chdir>. At this time, no warning or error is generated in this situation. You will certainly encounter unexpected results.

The implementation that surfaces this limitation will not be changed. See the F<File::Path::Tiny> module for functionality similar to F<File::Path> but which does not C<chdir>.

=head2 NFS Mount Points

F<File::Path> is not responsible for triggering the automounts, mirror mounts, and the contents of network mounted filesystems. If your NFS implementation requires an action to be performed on the filesystem in order for F<File::Path> to perform operations, it is strongly suggested you assure filesystem availability by reading the root of the mounted filesystem.

=head2 REPORTING BUGS

Please report all bugs on the RT queue, either via the web interface:

L<http://rt.cpan.org/NoAuth/Bugs.html?Dist=File-Path>

or by email:

    bug-File-Path@rt.cpan.org

In either case, please B<attach> patches to the bug report rather than including them inline in the web post or the body of the email.
You can also send pull requests to the Github repository:

L<https://github.com/rpcme/File-Path>

=head1 ACKNOWLEDGEMENTS

Paul Szabo identified the race condition originally, and Brendan O'Dea wrote an implementation for Debian that addressed the problem. That code was used as a basis for the current code. Their efforts are greatly appreciated.

Gisle Aas made a number of improvements to the documentation for 2.07 and his advice and assistance is also greatly appreciated.

=head1 AUTHORS

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=cut

Found in path(s):
No license file was found, but licenses were detected in source scan.

NAME
File::Path - Create or remove directory trees

INSTALLATION
perl Makefile.PL
make
make test
make install

PREREQUISITES
All prerequisites are found in the Perl 5 core distribution.

To configure:
    ExtUtils::MakeMaker

To build:
    Cwd   File::Basename
    Exporter  File::Spec

To test:
    Carp  File::Spec::Functions
    Config  SelectSaver
    Cwd  Test::More
    Errno  Win32  # Windows only
    Fcntl
BUGS
The File-Path bug tracker is located at:

<http://rt.cpan.org/NoAuth/Bugs.html?Dist=File-Path>

File reports by sending email to:

bug-File-Path@rt.cpan.org

Include test programs or patches as email attachments.

AUTHORS
Prior authors and maintainers: Tim Bunce, Charles Bailey, and David Landgren (david at landgren dot net).

Current maintainers are Richard Elberger (riche at cpan dot org) and James E Keenan (jkeenan at cpan dot org).

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

---
abstract: 'Create or remove directory trees'
author:
  - unknown
build_requires:
  Carp: '0'
  Config: '0'
  Errno: '0'
  ExtUtils::MakeMaker: '0'
  Fcntl: '0'
  File::Spec::Functions: '0'
  SelectSaver: '0'
  Test::Simple: '0.44'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
1.34 wso2-carbon-registry-relations 4.6.38
1.34.1 Available under license:

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   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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 control compilation and installation of the executable. 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
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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 the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
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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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when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
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The hypothetical commands `show w' and `show c' should show the appropriate
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be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

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school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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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"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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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

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

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

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

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

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

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

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

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

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

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

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
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1.43 jackson-dataformat-yaml 2.10.2
1.43.1 Available under license:

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

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1.45 wso2-carbon-registry-server 4.4.35

1.46 wso2-carbon-ntask-core 4.6.49
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slf4j-api-1.3.0.jar
slf4j-jdk14-1.3.0.jar
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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these
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 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.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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

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

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

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

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

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

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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser 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 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.

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.

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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.

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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This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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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.

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Ty Coon, President of Vice

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

Preamble

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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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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:

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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.

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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1.52 junit 4.12

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1.53 wso2-carbon-apimgt-hostobjects-oidc

6.4.50

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1.54 wso2-carbon-event-input-adapter-wso2event 5.1.42

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=head1 NAME
threads - Perl interpreter-based threads

=head1 VERSION
This document describes threads version 2.21

=head1 WARNING

The "interpreter-based threads" provided by Perl are not the fast, lightweight system for multitasking that one might expect or hope for. Threads are implemented in a way that make them easy to misuse. Few people know how to
use them correctly or will be able to provide help.

The use of interpreter-based threads in perl is officially discouraged.

=head1 SYNOPSIS

use threads ('yield',
    'stack_size' => 64*4096,
    'exit' => 'threads_only',
    'stringify');

sub start_thread {
    my @args = @_;;
    print("Thread started: ", join(" ", @args), ":\n");
}
my $thr = threads->create('start_thread', 'argument');
$thr->join();

threads->create(sub { print("I am a thread\n"); })->join();

my $thr2 = async { foreach (@files) { ... } };;
$thr2->join();
if (my $err = $thr2->error()) {
    warn("Thread error: $err\n");
}

# Invoke thread in list context (implicit) so it can return a list
my ($thr) = threads->create(sub { return (qw/a b c/); });
# or specify list context explicitly
my $thr = threads->create({'context' => 'list'},
    sub { return (qw/a b c/); });
my @results = $thr->join();

$thr->detach();

# Get a thread's object
$thr = threads->self();
$thr = threads->object($tid);

# Get a thread's ID
$tid = threads->tid();
$tid = $thr->tid();
$tid = "$thr";

# Give other threads a chance to run
threads->yield();
yield();
# Lists of non-detached threads
my @threads = threads->list();
my $thread_count = threads->list();
my @running = threads->list(threads::running);
my @joinable = threads->list(threads::joinable);

# Test thread objects
if ($thr1 == $thr2) {
  ...
}

# Manage thread stack size
$stack_size = threads->get_stack_size();
$old_size = threads->set_stack_size(32*4096);

# Create a thread with a specific context and stack size
my $thr = threads->create({ 'context' => 'list',
  'stack_size' => 32*4096,
  'exit' => 'thread_only' },
  &foo);

# Get thread's context
my $wantarray = $thr->wantarray();

# Check thread's state
if ($thr->is_running()) {
  sleep(1);
}
if ($thr->is_joinable()) {
  $thr->join();
}

# Send a signal to a thread
$thr->kill('SIGUSR1');

# Exit a thread
threads->exit();

=head1 DESCRIPTION

Since Perl 5.8, thread programming has been available using a model called
I<interpreter threads> which provides a new Perl interpreter for each
thread, and, by default, results in no data or state information being shared
between threads.

(Prior to Perl 5.8, I<5005threads> was available through the C<Thread.pm> API.)
This threading model has been deprecated, and was removed as of Perl 5.10.0.

As just mentioned, all variables are, by default, thread local. To use shared variables, you need to also load \texttt{threads::shared}:

\begin{verbatim}
use threads;
use threads::shared;
\end{verbatim}

When loading \texttt{threads::shared}, you must \texttt{use threads} before you \texttt{use threads::shared}. (\texttt{threads} will emit a warning if you do it the other way around.)

It is strongly recommended that you enable threads via \texttt{use threads} as early as possible in your script.

If needed, scripts can be written so as to run on both threaded and non-threaded Perls:

\begin{verbatim}
my $can_use_threads = eval 'use threads; 1';
if ($can_use_threads) {
  # Do processing using threads
  ...
} else {
  # Do it without using threads
  ...
}
\end{verbatim}

\texttt{$thr = \texttt{threads}\rightarrow\texttt{create(FUNCTION, ARGS)}}

This will create a new thread that will begin execution with the specified entry point function, and give it the I\texttt{ARGS} list as parameters. It will return the corresponding threads object, or \texttt{undef} if thread creation failed.

\texttt{FUNCTION} may either be the name of a function, an anonymous subroutine, or a code ref.

\begin{verbatim}
my $thr = \texttt{threads}\rightarrow\texttt{create('func_name', ...)};
# or
my $thr = \texttt{threads}\rightarrow\texttt{create(sub \{ ... \}, ...)};
# or
my $thr = \texttt{threads}\rightarrow\texttt{create(\&func, ...)};
\end{verbatim}

The \texttt{\texttt{create}} method is an alias for \texttt{\texttt{create}}.

\texttt{$thr\rightarrow\texttt{join()}}
This will wait for the corresponding thread to complete its execution. When the thread finishes, \texttt{\textbackslash \join} will return the return value(s) of the entry point function.

The context (void, scalar or list) for the return value(s) for \texttt{\join} is determined at the time of thread creation.

```perl
# Create thread in list context (implicit)
my ($thr1) = threads->create(sub {
    my @results = qw(a b c);
    return (@results);
});
# or (explicit)
my $thr1 = threads->create({'context' => 'list'},
    sub {
    my @results = qw(a b c);
    return (@results);
    });
# Retrieve list results from thread
my @res1 = $thr1->join();

# Create thread in scalar context (implicit)
my $thr2 = threads->create(sub {
    my $result = 42;
    return ($result);
});
# Retrieve scalar result from thread
my $res2 = $thr2->join();

# Create a thread in void context (explicit)
my $thr3 = threads->create('void' => 1),
    sub { print("Hello, world\n"); };
# Join the thread in void context (i.e., no return value)
$thr3->join();
```

See \texttt{L</"THREAD CONTEXT"}> for more details.

If the program exits without all threads having either been joined or detached, then a warning will be issued.

Calling \texttt{\join} or \texttt{\detach} on an already joined thread will cause an error to be thrown.

\texttt{\detach}

Makes the thread unjoinable, and causes any eventual return value to be discarded. When the program exits, any detached threads that are still running are silently terminated.
If the program exits without all threads having either been joined or detached, then a warning will be issued.

Calling `C<-E<gt>join()>` or `C<-E<gt>detach()>` on an already detached thread will cause an error to be thrown.

=item threads->detach()

Class method that allows a thread to detach itself.

=item threads->self()

Class method that allows a thread to obtain its own `threads` object.

=item $thr->tid()

Returns the ID of the thread. Thread IDs are unique integers with the main thread in a program being 0, and incrementing by 1 for every thread created.

=item threads->tid()

Class method that allows a thread to obtain its own ID.

=item "$thr"

If you add the `stringify` import option to your `use threads` declaration, then using a threads object in a string or a string context (e.g., as a hash key) will cause its ID to be used as the value:

```
use threads qw(stringify);

my $thr = threads->create(...);
print("Thread $thr started\n");  # Prints: Thread 1 started
```

=item threads->object($tid)

This will return the `threads` object for the `active` thread associated with the specified thread ID. If `$tid` is the value for the current thread, then this call works the same as `C<-E<gt>self()>`. Otherwise, returns `C<undef>` if there is no thread associated with the TID, if the thread is joined or detached, if no TID is specified or if the specified TID is `undef`.

=item threads->yield()

This is a suggestion to the OS to let this thread yield CPU time to other threads. What actually happens is highly dependent upon the underlying thread implementation.
You may do `use threads qw(yield)`, and then just use `yield` in your code.

=item threads->list()

=item threads->list(threads::all)

=item threads->list(threads::running)

=item threads->list(threads::joinable)

With no arguments (or using `threads::all`) and in a list context, returns a list of all non-joined, non-detached `threads` objects. In a scalar context, returns a count of the same.

With a `true` argument (using `threads::running`), returns a list of all non-joined, non-detached `threads` objects that are still running.

With a `false` argument (using `threads::joinable`), returns a list of all non-joined, non-detached `threads` objects that have finished running (i.e., for which `join()` will not block).

=item $thr1->equal($thr2)

Tests if two threads objects are the same thread or not. This is overloaded to the more natural forms:

```perl
if ($thr1 == $thr2) {
    print("Threads are the same\n");
} # or
if ($thr1 != $thr2) {
    print("Threads differ\n");
}
```

(Thread comparison is based on thread IDs.)

=item async BLOCK;

`async` creates a thread to execute the block immediately following it. This block is treated as an anonymous subroutine, and so must have a semicolon after the closing brace. Like `threads->create()`, `async` returns a `threads` object.

=item $thr->error()

Threads are executed in an `eval` context. This method will return `undef`
if the thread terminates normally. Otherwise, it returns the value of $@ associated with the thread's execution status in its eval context.

==item $thr->_handle()

This private method returns a pointer (i.e., the memory location expressed as an unsigned integer) to the internal thread structure associated with a threads object. For Win32, this is a pointer to the HANDLE value returned by CreateThread (i.e., HANDLE *); for other platforms, it is a pointer to the pthread_t structure used in the pthread_create call (i.e., pthread_t *).

This method is of no use for general Perl threads programming. Its intent is to provide other (XS-based) thread modules with the capability to access, and possibly manipulate, the underlying thread structure associated with a Perl thread.

==item threads->_handle()

Class method that allows a thread to obtain its own handle.

=back

=head1 EXITING A THREAD

The usual method for terminating a thread is to return EXPR from the entry point function with the appropriate return value(s).

=over

=item threads->exit()

If needed, a thread can be exited at any time by calling threads->exit(). This will cause the thread to return undef in a scalar context, or the empty list in a list context.

When called from the main thread, this behaves the same as exit(0).

=item threads->exit(status)

When called from a thread, this behaves like threads->exit() (i.e., the exit status code is ignored).

When called from the main thread, this behaves the same as exit(status).

=item die()
Calling C<&die()> in a thread indicates an abnormal exit for the thread. Any C<&$SIG{__DIE__}> handler in the thread will be called first, and then the thread will exit with a warning message that will contain any arguments passed in the C<&die()> call.

=item exit(status)

Calling L<exit()> inside a thread causes the whole application to terminate. Because of this, the use of C<exit()> inside threaded code, or in modules that might be used in threaded applications, is strongly discouraged.

If C<exit()> really is needed, then consider using the following:

threads-&gt;exit() if threads-&gt;can('exit'); # Thread friendly
exit(status);

=item use threads 'exit' =&gt; 'threads_only'

This globally overrides the default behavior of calling C<exit()> inside a thread, and effectively causes such calls to behave the same as C<threads-&gt;E&lt;gt;exit()>. In other words, with this setting, calling C<exit()> causes only the thread to terminate.

Because of its global effect, this setting should not be used inside modules or the like.

The I<main> thread is unaffected by this setting.

=item threads-&gt;create({'exit' =&gt; 'thread_only'}, ...)

This overrides the default behavior of C<exit()> inside the newly created thread only.

=item $thr-&gt;set_thread_exit_only(boolean)

This can be used to change the I<exit thread only> behavior for a thread after it has been created. With a I<true> argument, C<exit()> will cause only the thread to exit. With a I<false> argument, C<exit()> will terminate the application.

The I<main> thread is unaffected by this call.

=item threads-&gt;set_thread_exit_only(boolean)

Class method for use inside a thread to change its own behavior for C<exit()>.

The I<main> thread is unaffected by this call.
The following boolean methods are useful in determining the state of a thread.

item $thr->is_running()

Returns true if a thread is still running (i.e., if its entry point function has not yet finished or exited).

item $thr->is_joinable()

Returns true if the thread has finished running, is not detached and has not yet been joined. In other words, the thread is ready to be joined, and a call to $thr->join() will not block.

item $thr->is_detached()

Returns true if the thread has been detached.

item threads->is_detached()

Class method that allows a thread to determine whether or not it is detached.

As with subroutines, the type of value returned from a thread's entry point function may be determined by the thread's context: list, scalar or void. The thread's context is determined at thread creation. This is necessary so that the context is available to the entry point function via wantarray(). The thread may then specify a value of the appropriate type to be returned from join().

Because thread creation and thread joining may occur in different contexts, it may be desirable to state the context explicitly to the thread's entry point function. This may be done by calling create() with a hash reference as the first argument:

my $thr = threads->create({'context' => 'list'}, \&foo);
my @results = $thr->join();

In the above, the threads object is returned to the parent thread in scalar context, and the thread's entry point function C<foo> will be called in list (array) context such that the parent thread can receive a list (array) from the C<-E<gt>join()> call. (C<array> is synonymous with C<list>.)

Similarly, if you need the threads object, but your thread will not be returning a value (i.e., I<void> context), you would do the following:

    my $thr = threads->create({'context' => 'void'}, \&foo);
    ...
    $thr->join();

The context type may also be used as the I<key> in the hash reference followed by a I<true> value:

    threads->create({'scalar' => 1}, \&foo);
    ...
    my ($thr) = threads->list();
    my $result = $thr->join();

=head2 Implicit context

If not explicitly stated, the thread's context is implied from the context of the C<-E<gt>create()> call:

    # Create thread in list context
    my ($thr) = threads->create(...);

    # Create thread in scalar context
    my $thr = threads->create(...);

    # Create thread in void context
    threads->create(...);

=head2 $thr->wantarray()

This returns the thread's context in the same manner as L<wantarray()>.

=head2 threads->wantarray()

Class method to return the current thread's context. This returns the same value as running L<wantarray()> inside the current thread's entry point function.
=head1 THREAD STACK SIZE

The default per-thread stack size for different platforms varies significantly, and is almost always far more than is needed for most applications. On Win32, Perl's makefile explicitly sets the default stack to 16 MB; on most other platforms, the system default is used, which again may be much larger than is needed.

By tuning the stack size to more accurately reflect your application's needs, you may significantly reduce your application's memory usage, and increase the number of simultaneously running threads.

Note that on Windows, address space allocation granularity is 64 KB, therefore, setting the stack smaller than that on Win32 Perl will not save any more memory.

=over

=item threads->get_stack_size();

Returns the current default per-thread stack size. The default is zero, which means the system default stack size is currently in use.

=item $size = $thr->get_stack_size();

Returns the stack size for a particular thread. A return value of zero indicates the system default stack size was used for the thread.

=item $old_size = threads->set_stack_size($new_size);

Sets a new default per-thread stack size, and returns the previous setting.

Some platforms have a minimum thread stack size. Trying to set the stack size below this value will result in a warning, and the minimum stack size will be used.

Some Linux platforms have a maximum stack size. Setting too large of a stack size will cause thread creation to fail.

If needed, C<$new_size> will be rounded up to the next multiple of the memory page size (usually 4096 or 8192).

Threads created after the stack size is set will then either call C<pthread_attr_setstacksize()> I<(for pthreads platforms)>, or supply the stack size to C<CreateThread()> I<(for Win32 Perl)>.

(Obviously, this call does not affect any currently extant threads.)
This sets the default per-thread stack size at the start of the application.

The default per-thread stack size may be set at the start of the application through the use of the environment variable `PERL5_ITHREADS_STACK_SIZE`:

```
PERL5_ITHREADS_STACK_SIZE=1048576
export PERL5_ITHREADS_STACK_SIZE
perl -e 'use threads; print(threads->get_stack_size(), "\n")'
```

This value overrides any `stack_size` parameter given to `use threads`. Its primary purpose is to permit setting the per-thread stack size for legacy threaded applications.

To specify a particular stack size for any individual thread, call `create()` with a hash reference as the first argument:

```
my $thr = threads->create({'stack_size' => 32*4096},
    \&foo, @args);
```

This creates a new thread (C<$thr2>) that inherits the stack size from an existing thread (C<$thr1>). This is shorthand for the following:

```
my $stack_size = $thr1->get_stack_size();
my $thr2 = threads->create({'stack_size' => $stack_size},
    FUNCTION, ARGS);
```

When safe signals is in effect (the default behavior - see L</"Unsafe signals"> for more details), then signals may be sent and acted upon by individual threads.

```
$thr->kill('SIG...');
```

Sends the specified signal to the thread. Signal names and (positive) signal numbers are the same as those supported by
L<kill()>|perlfunc/"kill SIGNAL, LIST">. For example, 'SIGTERM', 'TERM' and (depending on the OS) 15 are all valid arguments to C<kill()>.

Returns the thread object to allow for method chaining:

$thr->kill('SIG...')->join();

=back

Signal handlers need to be set up in the threads for the signals they are expected to act upon. Here's an example for cancelling a thread:

use threads;

sub thr_func
{
    # Thread 'cancellation' signal handler
    $SIG{'KILL'} = sub { threads->exit(); }

    ...
}

# Create a thread
my $thr = threads->create('thr_func');

...

# Signal the thread to terminate, and then detach
# it so that it will get cleaned up automatically
$thr->kill('KILL')->detach();

Here's another simplistic example that illustrates the use of thread signalling in conjunction with a semaphore to provide rudimentary suspend and resume capabilities:

use threads;
use Thread::Semaphore;

sub thr_func
{
    my $sema = shift;

    # Thread 'suspend/resume' signal handler
    $SIG{'STOP'} = sub {
        $sema->down();      # Thread suspended
        $sema->up();        # Thread resumes
    }

    ...
}
# Create a semaphore and pass it to a thread
my $sema = Thread::Semaphore->new();
my $thr = threads->create('thr_func', $sema);

# Suspend the thread
$sema->down();
$thr->kill('STOP');

# Allow the thread to continue
$sema->up();

CAVEAT: The thread signalling capability provided by this module does not actually send signals via the OS. It emulates signals at the Perl-level such that signal handlers are called in the appropriate thread. For example, sending C<$thr->kill('STOP')> does not actually suspend a thread (or the whole process), but does cause a C<$SIG{'STOP'}> handler to be called in that thread (as illustrated above).

As such, signals that would normally not be appropriate to use in the C<kill()> command (e.g., C<kill('KILL', $$)> are okay to use with the C<-E<gt>kill()> method (again, as illustrated above).

Correspondingly, sending a signal to a thread does not disrupt the operation the thread is currently working on: The signal will be acted upon after the current operation has completed. For instance, if the thread is stuck on an I/O call, sending it a signal will not cause the I/O call to be interrupted such that the signal is acted up immediately.

Sending a signal to a terminated/finished thread is ignored.

=head1 WARNINGS

=over 4

=item Perl exited with active threads:

If the program exits without all threads having either been joined or detached, then this warning will be issued.

NOTE: If the I<main> thread exits, then this warning cannot be suppressed using C<no warnings 'threads';> as suggested below.

=item Thread creation failed: pthread_create returned #
See the appropriate man page for pthread_create to determine the actual cause for the failure.

=item Thread # terminated abnormally: ...

A thread terminated in some manner other than just returning from its entry point function, or by using threads->exit(). For example, the thread may have terminated because of an error, or by using die.

=item Using minimum thread stack size of #

Some platforms have a minimum thread stack size. Trying to set the stack size below this value will result in the above warning, and the stack size will be set to the minimum.

=item Thread creation failed: pthread_attr_setstacksize(SIZE) returned 22

The specified SIZE exceeds the system's maximum stack size. Use a smaller value for the stack size.

=back

If needed, thread warnings can be suppressed by using:

   no warnings 'threads';

in the appropriate scope.

=head1 ERRORS

=over 4

=item This Perl not built to support threads

The particular copy of Perl that you're trying to use was not built using the threads configuration option.

Having threads support requires all of Perl and all of the XS modules in the Perl installation to be rebuilt; it is not just a question of adding the threads module (i.e., threaded and non-threaded Perls are binary incompatible).

=item Cannot change stack size of an existing thread

The stack size of currently extant threads cannot be changed, therefore, the following results in the above error:
$thr-&gt;set_stack_size($size);

=item Cannot signal threads without safe signals

Safe signals must be in effect to use the C&lt;-E&lt;gt;kill()&gt; signalling method. See L&lt;/"Unsafe signals"&gt; for more details.

=item Unrecognized signal name: ...

The particular copy of Perl that you're trying to use does not support the specified signal being used in a C&lt;-E&lt;gt;kill()&gt; call.

=back

=head1 BUGS AND LIMITATIONS

Before you consider posting a bug report, please consult, and possibly post a message to the discussion forum to see if what you've encountered is a known problem.

=over

=item Thread-safe modules

See L&lt;perlmod/Making your module threadsafe&gt; when creating modules that may be used in threaded applications, especially if those modules use non-Perl data, or XS code.

=item Using non-thread-safe modules

Unfortunately, you may encounter Perl modules that are not I&lt;thread-safe&gt;. For example, they may crash the Perl interpreter during execution, or may dump core on termination. Depending on the module and the requirements of your application, it may be possible to work around such difficulties.

If the module will only be used inside a thread, you can try loading the module from inside the thread entry point function using C&lt;require&gt; (and C&lt;import&gt; if needed):

sub thr_func
{
    require Unsafe::Module
    # Unsafe::Module-&gt;import(...);

    ....
}

If the module is needed inside the I&lt;main&gt; thread, try modifying your
application so that the module is loaded (again using \texttt{require} and \texttt{import()}) after any threads are started, and in such a way that no other threads are started afterwards.

If the above does not work, or is not adequate for your application, then file a bug report on \texttt{http://rt.cpan.org/Public/} against the problematic module.

=item Memory consumption

On most systems, frequent and continual creation and destruction of threads can lead to ever-increasing growth in the memory footprint of the Perl interpreter. While it is simple to just launch threads and then \texttt{join()} or \texttt{detach()} them, for long-lived applications, it is better to maintain a pool of threads, and to reuse them for the work needed, using \texttt{Thread::Queue} to notify threads of pending work. The CPAN distribution of this module contains a simple example (\texttt{examples/pool_reuse.pl}) illustrating the creation, use and monitoring of a pool of I\texttt{reusable} threads.

=item Current working directory

On all platforms except MSWin32, the setting for the current working directory is shared among all threads such that changing it in one thread (e.g., using \texttt{chdir()}) will affect all the threads in the application.

On MSWin32, each thread maintains its own the current working directory setting.

=item Environment variables

Currently, on all platforms except MSWin32, all I\texttt{system} calls (e.g., using \texttt{system()} or back-ticks) made from threads use the environment variable settings from the I\texttt{main} thread. In other words, changes made to \texttt{C\%ENV} in a thread will not be visible in I\texttt{system} calls made by that thread.

To work around this, set environment variables as part of the I\texttt{system} call. For example:

\begin{verbatim}
my $msg = 'hello';
system("FOO=$msg; echo \$FOO");  # Outputs 'hello' to STDOUT
\end{verbatim}

On MSWin32, each thread maintains its own set of environment variables.

=item Catching signals

Signals are I\texttt{caught} by the main thread (thread ID = 0) of a script. Therefore, setting up signal handlers in threads for purposes other than L\<"THREAD SIGNALLING"> as documented above will not accomplish what is
intended.

This is especially true if trying to catch \texttt{C\texttt{SIGALRM}} in a thread. To handle alarms in threads, set up a signal handler in the main thread, and then use \texttt{L</"THREAD SIGNALLING"\texttt{>}} to relay the signal to the thread:

```perl
# Create thread with a task that may time out
my $thr = threads->create(sub {
    threads->yield();
    eval {
        $SIG{ALRM} = sub { die("Timeout\n"); }; 
        alarm(10);
        ... # Do work here
        alarm(0);
    }
    if ($@ =~ /Timeout/) {
        warn("Task in thread timed out\n");
    }
});

# Set signal handler to relay SIGALRM to thread
$SIG{ALRM} = sub { $thr->kill('ALRM') }; 

... # Main thread continues working
```

=item Parent-child threads

On some platforms, it might not be possible to destroy I<parent> threads while there are still existing I<child> threads.

=item Unsafe signals

Since Perl 5.8.0, signals have been made safer in Perl by postponing their handling until the interpreter is in a I<safe> state. See \texttt{L<perl58delta/"Safe Signals"\texttt{>}} and \texttt{L<perlipc/"Deferred Signals (Safe Signals)"\texttt{>}} for more details.

Safe signals is the default behavior, and the old, immediate, unsafe signalling behavior is only in effect in the following situations:

=over 4

=item * Perl has been built with \texttt{C\texttt{PERL_OLD_SIGNALS}} (see \texttt{C\texttt{-V}}).

=item * The environment variable \texttt{C\texttt{PERL_SIGNALS}} is set to \texttt{C\texttt{unsafe}} (see \texttt{L<perlrun/"PERL_SIGNALS"\texttt{>}}).

=item * The module \texttt{L<Perl::Unsafe::Signals\texttt{>}} is used.
If unsafe signals is in effect, then signal handling is not thread-safe, and the `$<E<gt>kill()>` signalling method cannot be used.

=item Identity of objects returned from threads

When a value is returned from a thread through a `join` operation, the value and everything that it references is copied across to the joining thread, in much the same way that values are copied upon thread creation. This works fine for most kinds of value, including arrays, hashes, and subroutines. The copying recurses through array elements, reference scalars, variables closed over by subroutines, and other kinds of reference.

However, everything referenced by the returned value is a fresh copy in the joining thread, even if a returned object had in the child thread been a copy of something that previously existed in the parent thread. After joining, the parent will therefore have a duplicate of each such object. This sometimes matters, especially if the object gets mutated; this can especially matter for private data to which a returned subroutine provides access.

=item Returning blessed objects from threads

Returning blessed objects from threads does not work. Depending on the classes involved, you may be able to work around this by returning a serialized version of the object (e.g., using `Data::Dumper` or `Storable`), and then reconstituting it in the joining thread. If you're using Perl 5.10.0 or later, and if the class supports `threads::shared`, you can pass them via `shared queues::shared"OBJECTS"`.

=item END blocks in threads

It is possible to add `BEGIN, UNITCHECK, CHECK, INIT and END` to threads by using `require` or `eval` with the appropriate code. These `END` blocks will then be executed when the thread's interpreter is destroyed (i.e., either during a `join()` call, or at program termination).

However, calling any `threads` methods in such an `END` block will most likely `fail` (e.g., the application may hang, or generate an error) due to mutexes that are needed to control functionality within the `threads` module.

For this reason, the use of `END` blocks in threads is `strongly` discouraged.
In Perl 5.14 and higher, on systems other than Windows that do not support the C<\fchdir> C function, directory handles (see L<opendir|perlfunc/"opendir DIRHANDLE,EXPR">) will not be copied to new threads. You can use the C<d_fchdir> variable in L<Config.pm|Config> to determine whether your system supports it.

In prior Perl versions, spawning threads with open directory handles would crash the interpreter.

If the main thread exits while there are detached threads which are still running, then Perl's global destruction phase is not executed because otherwise certain global structures that control the operation of threads and that are allocated in the main thread's memory may get destroyed before the detached thread is destroyed.

If you are using any code that requires the execution of the global destruction phase for cleanup (e.g., removing temp files), then do not use detached threads, but rather join all threads before exiting the program.

Support for threads extends beyond the code in this module (i.e., F<threads.pm> and F<threads.xs>), and into the Perl interpreter itself. Older versions of Perl contain bugs that may manifest themselves despite using the latest version of L<threads> from CPAN. There is no workaround for this other than upgrading to the latest version of Perl.

Even with the latest version of Perl, it is known that certain constructs with threads may result in warning messages concerning leaked scalars or unreferenced scalars. However, such warnings are harmless, and may safely be ignored.

You can search for L<threads> related bug reports at L<http://rt.cpan.org/Public/>. If needed submit any new bugs, problems, patches, etc. to: L<http://rt.cpan.org/Public/Dist/Display.html?Name=threads>

=head1 REQUIREMENTS

Perl 5.8.0 or later

=head1 SEE ALSO
threads on MetaCPAN:
L<https://metacpan.org/release/threads>

Code repository for CPAN distribution:
L<https://github.com/Dual-Life/threads>

L<threads::shared>, L/perlthrtut

L<http://www.perl.com/pub/a/2002/06/11/threads.html> and

Perl threads mailing list:
L<http://lists.perl.org/list/ithreads.html>

Stack size discussion:
L<http://www.perlmonks.org/?node_id=532956>

Sample code in the L<examples> directory of this distribution on CPAN.

=head1 AUTHOR

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CPAN version produced by Jerry D. Hedden <jdhedden AT cpan DOT org>

=head1 LICENSE

threads is released under the same license as Perl.

=head1 ACKNOWLEDGEMENTS

Richard Soderberg E<lt>perl AT crystalflame DOT netE<gt> -
Helping me out tons, trying to find reasons for races and other weird bugs!

Simon Cozens E<lt>simon AT brecon DOT co DOT ukE<gt> -
Being there to answer zillions of annoying questions

Rocco Caputo E<lt>troc AT netrus DOT netE<gt>

Vipul Ved Prakash E<lt>mail AT vipul DOT netE<gt> -
Helping with debugging

Dean Arnold E<lt>darnold AT presicent DOT comE<gt> -
Stack size API

=cut
Found in path(s):

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

/*

***********************************************************************

ppport.h -- Perl/Pollution/Portability Version 3.32

Automatically created by Devel::PPPort running under perl 5.022001.

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

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.32

=head1 SYNOPSIS

perl ppport.h [options] [source files]

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

--help              show short help
--version           show version
--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

Open Source Used In Connected-Pharma 1.5-UI & ServiceLayer  640
--nofilter      don't filter input files
--strip        strip all script and doc functionality from
               pport.h
--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<pport.h> is designed to support operation with Perl
installations back to 5.003, and has been tested up to 5.20.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<pport.h>.

=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. Note that this does not
automagically add a dot between the original filename and the
suffix. If you want the dot, you have to include it in the option
argument.

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.
Tell $ppport.h$ 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 $ppport.h$ if you intend to be backward compatible only down to a certain Perl version.

$ppport.h$ will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs $ppport.h$ to leave C++ comments untouched.

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

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

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

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

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.

Strip all script and documentation functionality from $ppport.h$. This reduces the size of $ppport.h$ dramatically and may be useful if you want to include $ppport.h$ in smaller modules without increasing their distribution size too much.

The stripped $ppport.h$ will have a C<--unstrip> option that allows
you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=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 or warnings 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.

=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.

=item *
If you use one of a few functions or variables 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 or variables 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 or variables, you want either `C<static>` or global variants.

For a `C<static>` function or variable (used only in a single source file), use:

```c
#define NEED_function
#define NEED_variable
```

For a global function or variable (used in multiple source files), use:

```c
#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL
```

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

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>PL_parser</code></td>
<td><code>NEED_PL_parser</code></td>
<td><code>NEED_PL_parser_GLOBAL</code></td>
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<tr>
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<td><code>NEED_PL_signals_GLOBAL</code></td>
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</tr>
<tr>
<td><code>my_strlcpy()</code></td>
<td><code>NEED_my_strlcpy</code></td>
<td><code>NEED_my_strlcpy_GLOBAL</code></td>
</tr>
<tr>
<td><code>newCONSTSUB()</code></td>
<td><code>NEED_newCONSTSUB</code></td>
<td><code>NEED_newCONSTSUB_GLOBAL</code></td>
</tr>
<tr>
<td><code>newRV_noinc()</code></td>
<td><code>NEED_newRV_noinc</code></td>
<td><code>NEED_newRV_noinc_GLOBAL</code></td>
</tr>
<tr>
<td><code>newSV_type()</code></td>
<td><code>NEED_newSV_type</code></td>
<td><code>NEED_newSV_type_GLOBAL</code></td>
</tr>
<tr>
<td><code>newSVpvn_flags()</code></td>
<td><code>NEED_newSVpvn_flags</code></td>
<td><code>NEED_newSVpvn_flags_GLOBAL</code></td>
</tr>
</tbody>
</table>

---

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To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables 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_>.

=back

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.

If you want to create patched copies of your files instead, use:

perl ppport.h --copy=.new

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 here: L<https://github.com/mhx/Devel-PPPort/issues/>

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

Version 3.x, Copyright (c) 2004-2013, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '{^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }
my $VERSION = 3.32;

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

my($ppport) = $0 =~ /([\w.]+)$/;
my $LF = '(?:\r\n|[^\r\n])';  # line feed
my $HS = '[ \t]';             # horizontal whitespace

# Never use C comments in this file!
my $ccs = '/.*';
my $cce = '.*/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
    require Getopt::Long;
    Getopt::Long::GetOptions(%$opt, qw(
        help quiet diag! filter! hints! changes! cplusplus strip version
        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.
    ";
}

if ($opt{version}) {
    print "This is $0 $VERSION.\n";
    exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{'compat-version'}) {
    my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
if ($@) {
    die "Invalid version number format: '-($)\n"
}

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

my %API = map { /^(\w+)|[^|]*|[^|]*|\d+\)/
    ? ( $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(
ASCII_TO_NEED|5.007001|
AvFILL|5.004050|p
AvFILL||
BhkDISABLE|5.021008|
BhkENABLE|5.021008|
BhkENTRY_set|5.021008|
BhkENTRY||
BhkFLAGS||
CALL_BLOCK_HOOKS||
CLASS||n
CPEXMLscope|5.005000|p
CX_CURPAD_SAVE||
CX_CURPAD_SV||
CopFILEAV|5.006000|p
CopFILEAV_set|5.006000|p
CopFILEGV|5.006000|p
CopFILEGV_set|5.006000|p
CopFILESV|5.006000|p
CopFILE_set|5.006000|p
CopFILE|5.006000|p
CopSTASHPV_set|5.006000|p
CopSTASHPV|5.006000|p
CopSTASHPV_eq|5.006000|p
CopSTASHPV_set|5.006000|p
CopSTASH|5.006000|p
CopyD|5.009002|5.004050|p
Copy||
CvPADLIST|5.008001|
CvSTASH||
PAD_CLONE_VARS
PAD_COMPNAME_FLAGS
PAD_COMPNAME_GEN_set
PAD_COMPNAME_GEN
PAD_COMPNAME_OURSTASH
PAD_COMPNAME_PV
PAD_COMPNAME_TYPE
PAD_RESTORE_LOCAL
PAD_SAVE_LOCAL
PAD_SAVE_SETNULLPAD
PAD_SETSV
PAD_SET_CUR_NOSAVE
PAD_SET_CUR
PAD_SV
PERLIO_FUNCS_CAST
PERLIO_FUNCS_DECL
PERL_ABS
PERL_BCDVERSION
PERL_GCC_BRACE_GROUPS_FORBIDDEN
PERL_HASH
PERL_INT_MAX
PERL_INT_MIN
PERL_LONG_MAX
PERL_LONG_MIN
PERL_MAGIC_arylen
PERL_MAGIC_backref
PERL_MAGIC_bni
PERL_MAGIC_collxfrm
PERL_MAGIC_dbfile
PERL_MAGIC_dbline
PERL_MAGIC_defelem
PERL_MAGIC_envelem
PERL_MAGIC_env
PERL_MAGIC_ext
PERL_MAGIC_fm
PERL_MAGIC_glob
PERL_MAGIC_isaelem
PERL_MAGIC_isa
PERL_MAGIC_mutex
PERL_MAGIC_nkeys
PERL_MAGIC_overload_elem
PERL_MAGIC_overload_table
PERL_MAGIC_overload
PERL_MAGIC_pos
PERL_MAGIC_qr
PERL_MAGIC_regdata
PERL_MAGIC_regdatum
PL_ofsgv
PL_opfreehook|5.011000
PL_parser|5.009005|p
PL_peepp|5.007003|n
PL_perl_destruct_level|5.004050|p
PL_perldb|5.004050|p
PL_ppaddr|5.006000|p
PL_rpeepp|5.013005|n
PL_rsfp_filters|5.021008|p
PL_rsfp|5.021008|p
PL_rs||n
PL_signals|5.008001|p
PL_stack_base|5.004050|p
PL_stack_sp|5.004050|p
PL_statcache|5.005000|p
PL_stdingv|5.004050|p
PL_sv_arenaroot|5.004050|p
PL_sv_no|5.004050|p
PL_sv_undef|5.004050|p
PL_sv_yes|5.004050|p
PL_tainted|5.004050|p
PL_tainting|5.004050|p
PL_tokenbuf|5.021008|p
POP_MULTICALL|5.021008|
POPi||n
POPi||n
POPi||n
POPphystex|5.007001|n
POPsx|5.005030|n
POPP|n
POPs||n
PTR2IV|5.006000|p
PTR2NV|5.006000|p
PTR2UV|5.006000|p
PTR2nat|5.009003|p
PTR2ul|5.007001|p
PTRV|5.006000|p
PUSHMARK||
PUSH_MULTICALL|5.021008|
PUSHi||
PUSHmortal|5.009002|p
PUSHn||
PUSHp||
PUSHs||
PUSHu|5.004000|p
PUTBACK||
PadARRAY|5.021008|
PadMAX|5.021008|
SVt_REGEXP[5.011000]
Safefree[]
Slab_Alloc[]
Slab_Free[]
Slab_to_ro[]
Slab_to_rw[]
StructCopy[]
SvCUR_set[]
SvCUR[]
SvEND[]
SvGAMAGIC[5.006001]
SvGETMAGIC[5.004050][p
SvGROW[]
SvIOK_UV[5.006000]
SvIOK_notUV[5.006000]
SvIOK_off[]
SvIOK_only_UV[5.006000]
SvIOK_only[]
SvIOK_on[]
SvIOKp[]
SvIOK[]
SvIVX[]
SvIV_nomg[5.009001][p
SvIV_set[]
SvIVx[]
SvIV[]
SvIsCOW_shared_hash[5.008003]
SvIsCOW[5.008003]
SvLEN_set[]
SvLEN[]
SvLOCK[5.007003]
SvMAGIC_set[5.009003][p
SvNIOK_off[]
SvNIOKp[]
SvNIOK[]
SvNOK_off[]
SvNOK_only[]
SvNOK_on[]
SvNOKp[]
SvNOK[]
SvNVX[]
SvNV_nomg[5.013002]
SvNV_set[]
SvNVx[]
SvNV[]
SvOK[]
SvOOK_offset[5.011000]
SvOOK[]
SvPOK_off
SvPOK_only_UTF8|5.006000|
SvPOK_only||
SvPOK_on||
SvPOKp||
SvPOK||
SvPVX_const|5.009003||p
SvPVX_mutable|5.009003||p
SvPVX||
SvPV_const|5.009003||p
SvPV_flags_const_nolen|5.009003||p
SvPV_flags_const|5.009003||p
SvPV_flags_mutable|5.009003||p
SvPV_flags|5.007002||p
SvPV_force_flags_mutable|5.009003||p
SvPV_force_flags_nolen|5.009003||p
SvPV_force_flags|5.007003||p
SvPV_force|5.007002||p
SvPV_mutable|5.009003||p
SvPV_nolen_const|5.009003||p
SvPV_nolen|5.006000||p
SvPV_nomg_const_nolen|5.009003||p
SvPVNomg_const|5.009003||p
SvPV_nomg_nolen|5.013007||p
SvPV_nomg|5.007002||p
SvPV_renew|5.009003||p
SvPV_set||
SvPVbyte_force|5.009002||
SvPVbyte_nolen|5.006000||
SvPVbyte|5.006000||
SvPVbyte|5.006000||
SvPVbyte|5.006000||
SvPVbyte|5.006000||
SvPVbyte|5.006000||
SvPVbyte|5.006000||
SvPVbyte|5.006000||
SvPVbyte|5.006000||
SvPVbyte|5.006000||
SvPVset8_force|5.006000||
SvPVset8_nolen|5.006000||
SvPVset8_force|5.006000||
SvPVset8|5.006000||
SvPVx||
SvPV||
SvREFCNT_dec_NN|5.017007|
SvREFCNT_dec||
SvREFCNT_inc_NN|5.009004||p
SvREFCNT_inc_NN|5.009004||p
SvREFCNT_inc_simple_NN|5.009004||p
SvREFCNT_inc_simple_void_NN|5.009004||p
UVTYPE|5.006000||p
UVXf|5.007001||p
UVof|5.006000||p
UVuf|5.006000||p
UVxf|5.006000||p
WARN_ALL|5.006000||p
WARN_AMBIGUOUS|5.006000||p
WARN_ASSERTIONS|5.021008||p
WARN_BAREWORD|5.006000||p
WARN_CLOSED|5.006000||p
WARN_CLOSURE|5.006000||p
WARN_DEBUGGING|5.006000||p
WARN_DEPRECATED|5.006000||p
WARN_DIGIT|5.006000||p
WARN_EXEC|5.006000||p
WARN_EXITING|5.006000||p
WARN_GLOB|5.006000||p
WARN_INPLACE|5.006000||p
WARN_INTERNAL|5.006000||p
WARN_IO|5.006000||p
WARN_LAYER|5.008000||p
WARN_MALLOC|5.006000||p
WARN_MISC|5.006000||p
WARN_NEWLINE|5.006000||p
WARN_NUMERIC|5.006000||p
WARN_ONCE|5.006000||p
WARN_OVERFLOW|5.006000||p
WARN_PACK|5.006000||p
WARN_PARENTHESIS|5.006000||p
WARN_PIPE|5.006000||p
WARN_PORTABLE|5.006000||p
WARN_PRECEDENCE|5.006000||p
WARN_PRINTF|5.006000||p
WARN_PROTOTYPE|5.006000||p
WARN_QW|5.006000||p
WARN_RECURSION|5.006000||p
WARN_REDEFINE|5.006000||p
WARN_REGEXP|5.006000||p
WARN_RESERVED|5.006000||p
WARN_SEMICOLON|5.006000||p
WARN_SEVERE|5.006000||p
WARN_SIGNAL|5.006000||p
WARN_SUBSTR|5.006000||p
WARN_SYNTAX|5.006000||p
WARN_TAINT|5.006000||p
WARN_THREADS|5.008000||p
WARN_UNINITIALIZED|5.006000||p
WARN_UNOPENED|5.006000||p
_warn_problematic_locale
aMY_CXT_5.007003
aMY_CXT\5.007003\p
aTHXR_5.021008\p
aTHXR\5.021008\p
aTHX_5.006000\p
aTHX\5.006000\p
assign_common_vars
add_above_Latin1_folds
add_ep_to_invlist
add_data
add_multi_match
add_utf16_textfilter
adjust_size_and_find_bucket
advance_one_SB
advance_one_WB
alloc_maybe_populate_EXACT
allocopstash
allocmy
amagic_call
amagic_cmp_locale
amagic_cmp
amagic_deref_call\5.013007
amagic_i_ncmp
amagic_is_enabled
amagic_ncmp
anonymise_cv_maybe
any_dup
ao
append_utf8_from_native_byte\5.019004\napplyattrs_my
applyattrs_string\5.006001
applyattrs
apply
assert_utf8_cache_coherent
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av_clear

av_create_and_push\5.009005

av_create_and_unshift_one\5.009005
av_delete\5.006000
av_exists\5.006000
av_extend_guts
av_extend
av_fetch
av_fill
av_iter_p||5.011000|
av_len||
av_make||
av_pop||
av_push||
av_reify||
av_shift||
av_store||
av_tindex||5.017009|
av_top_index||5.017009|
av_undef||
av_unshift||
ax||n
backup_one_SB||
backup_one_WB||
bad_type_gv||
bad_type_pv||
bind_match||
block_end||5.004000|
block_gimme||5.004000|
block_start||5.004000|
blockhook_register||5.013003|
boolSV||5.004000||p
boot_core_PerlIO||
boot_core_UNIVERSAL||
boot_core_mro||
bytes_cmp_utf8||5.013007|
bytes_from_utf8||5.007001|
bytes_to_utf8||5.006001|
call_argv||5.006000||p
call_atexit||5.006000|
call_list||5.004000|
call_method||5.006000||p
call_pv||5.006000||p
call_sv||5.006000||p
caller_cx||5.013005||5.006000||p
calloc||5.007002||n
cando||
cast_i32||5.006000||n
cast_iv||5.006000||n
cast_ulong||5.006000||n
cast_uv||5.006000||n
check_locale_boundary_crossing||
check_type_and_open||
check_uni||
check_utf8_print||
checkcomma||
ckWARN||5.006000||p
croak_no_modify|5.013003|n
croak_nocontext|vn
croak_popstack|n
croak_sv|5.013001|
croak_xsv_usage|5.010001|n
croak||v
csighandler|5.009003|n
current_re_engine||
curse||
custom_op_desc|5.007003|
custom_op_get_field||
custom_op_name|5.007003|
custom_op_register||5.013007|
custom_op_xop|5.013007|
cv_ckproto_len_flags||
cv_clone_into||
cv_clone||
cv_const_sv_or_av||n
cv_const_sv|5.003070|n
cv_dump||
cv_forget_slab||
cv_get_call_checker|5.013006|
cv_name|5.021005|
cv_set_call_checker_flags|5.021004|
cv_set_call_checker|5.013006|
cv_undef_flags||
cv_undef||
cvgv_from_hek||
cvgv_set||
cvstash_set||
cx_dump|5.005000|
cx_dup||
cxinc||
dAXMARK|5.009003|p
dAX|5.007002|p
dITEMS|5.007002|p
dMARK||
dMULTICALL|5.009003|
dMY_CXT_SV|5.007003|p
dMY_CXT|5.007003|p
dNOOP|5.006000|p
dORIGMARK||
dSP||
dTHR|5.004050|p
dTHXR|5.021008|p
dTHXa|5.006000|p
dTHXoa|5.006000|p
dTHX|5.006000|p
do_join
do_magic_dump[5.006000]
do_msgrcv
do_msgsnd
ndo_ncmp
ndo_oddball
ndo_op_dump[5.006000]
do_open6
ndo_open9[5.006000]
do_open_raw
ndo_opens[5.007001]
do_open[5.003070]
do_pmop_dump[5.006000]
do_print
ndo_readline
ndo_seek
ndo_semop
ndo_shmio
ndo_smartmatch
ndo_spawn_nowait
ndo_spawn
ndo_sprintf
ndo_sv_dump[5.006000]
do_sysseek
ndo_trans_complex_utf8
ndo_trans_complex
ndo_trans_count_utf8
ndo_trans_count
ndo_trans_simple_utf8
ndo_trans_simple
ndo_trans
ndo_vecget
ndo_vecset
ndo_vop
do_catch
do_file
do_findlabel
do_form
ndoing_taint[5.008001]
dooneiner
do_open_pm
do_parseform
do_pop_to_eval
do_pop_to_given
do_pop_to_label
do_pop_to_loop

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find_runcv_where||
find_runcv[5.008001]
find_rundefsv2||
find_rundefsvoffset[5.009002]
find_rundefsv[5.013002]
find_script||
find_uninit_var||
first_symbol]|n
fixup_errno_string||
foldEQ_latin1[5.013000]|n
foldEQ_locale[5.013002]|n
foldEQ_utf8_FLAGS[5.013010]
foldEQ_utf8[5.013002]
foldEQ[5.013002]|n
fold_constants||
forbid_setid||
force_ident_maybe_lex||
force_ident||
force_list||
force_next||
force_strict_version||
force_version||
force_word||
forget_pmop||
form_nocontext]|vn
form_short_octal_warning||
form[5.004000]|v
fp_dup||
fprintf_nocontext]|vn
free_c_backtrace||
free_global_struct||
free_tied_hv_pool||
free_tmsps||
gen_constant_list||
get_ANYOF_cp_list_for_ssc||
get_and_check_backslash_N_name||
get_aux_mg||
get_av[5.006000]|p
get_c_backtrace_dump||
get_c_backtrace||
get_context[5.006000]|n
getcvn_FLAGS[5.009005]|p
getcvs[5.011000]|p
getcv[5.006000]|p
get_db_sub||
get_debug_opts||
get_hash_opts||
gethv[5.006000]|p
get_invlist_iter_addr
get_invlist_offset_addr
get_invlist_previous_index_addr
get_mstats
get_no_modify
get_num
get_op_descs
get_op_names
get_opargs
get_ppaddr
get_re_arg
get_sv
get_vtbl
getcwd_sv
getenv_len
glob_2number
glob_assign_glob
gp_dup
gp_free
gp_ref
grok_atoUV
grok_bin
grok_bslash_N
grok_bslash_c
grok_bslash_o
grok_bslash_x
grok_hex
grok_infnan
grok_number_flags
grok_number
grok_numeric_radix
grok_oct
group_end
gv_AVadd
gv_HVadd
gv_IOadd
gv_SVadd
gv_add_by_type
gv_autoload4
gv_autoload_pvn
gv_autoload_pv
gv_autoload_sv
gv_check
gv_const_sv
gv_dump
gv.efullname3
gv.efullname4

hv_assert
hv_auxinit_internal
hv_auxinit
hv_backreferences_p
hv_clear_placeholders
hv_clear
hv_common_key_len
hv_common
hv_copy_hint_hv
hv_delayfree_ent
hv_delete_common
hv_delete_ent
hv_delete
hv_eiter_p
hv_eiter_set
hv_ename_add
hv_ename_delete
hv_exists_ent
hv_exists
hv_fetch_ent
hv_fetchs
hv_fetch
hv_fill
hv_free_ent_ret
hv_free_ent
hv_iterinit
hv_iterkeysv
hv_iterkey
hv_iternext_flags
hv_iternext
hv_iterval
hv_kill_backrefs
hv_ksplit
hv_magic_check
hv_magic
hv_name_set
hv_notallowed
hv_placeholders_get
hv_placeholders_p
hv_placeholders_set
hv_rand_set
hv_riter_p
hv_riter_set
hv_scalar
hv_store_ent
hv_store_flags
hv_stores
hv_store
hv_UNDEF
ibcmp_locale[5.004000]
ibcmp_utf8[5.007003]
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vform
visit
vivify_defelem
vivify_ref
vload_module
vmess
vnewSVpvn
vnormal
vnnumify
vstringify
vverify
vwarner
vwarn
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}), "
    }
    exit 0;
}

# Scan for possible replacement candidates

my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);

sub find_api
{
    my $code = shift;
    $code =~ s/{\(?:[^\*]*)\*\+\(\?:[\^\*]*\):[^\*\^]+\)\*/ / \


while (<DATA>) {
  if ($hint) {
    my $Sh = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
    if (m{\^s*\^s(=?)\^s$}) { 
      for (@{ $hint->[1] }) {
        $Sh->{$_} ||= ''; # suppress warning with older perls
        $Sh->{$_} .= "$1
";
      }
    } else { undef $hint }
  }

  $hint = [$1, [split /,?s+/, $2]]
  if m{\^s*\$rccs\$s+(Hint|Warning):\$s+(\w+?:?\w+)\$s*\$};
  if ($define) {
    if ($define->[1] =~ /\$/) {
      $define->[1] .= $_;
    } else {
      if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_/) {
        my @n = find_api($define->[1]);
        push @{$depends{$define->[0]}}, @n if @n
      }
      undef $define;
    }
  }

  $define = [$1, $2] if m{\^s*#s*define\$s+(\w+?:?\w+)\$s*\$};
  if ($function) {
    if (/^\$/) { 
      if (exists $API{$function->[0]}) {
        my @n = find_api($function->[1]);
        push @{$depends{$function->[0]}}, @n if @n
      }
      undef $function;
    } else {
      $function->[1] .= $_;
    }
  }
}
$count or print "Found no API matching '$opt{api-info}'.";
print "\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};
    push @flags, 'warning'  if exists $warnings{$f};
    my @flags = @flags ? ['\[', join(',', @flags), ']'] : '';
    print "$f@flags\n";
  }
  exit 0;
}

my @flags;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;

if (@ARGV) {
  my %seen;
  for (@ARGV) {
    if (-e) {
      if (-f) {
        push @files, $_ unless $seen{$_}++;
      }
      else { warn "'$_' is not a file.\n" }
    }
    else { warn "'$_' does not exist.\n";
      push @files, grep { !seen{$_}++ } @new;
    }
  }
}
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;
}
die "No input files given!\n" unless @files;
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> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )

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{ defined $2 and push @ccom, $2;
  defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;

$file{com} = \@ecom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /\$HS*#\$HS*include[^\r\n]+\bQ$ppport\b/m;

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}) {
    $file{uses_provided}{$func}++;
  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) {
      $file{needs}{'$_'} = 'static' if exists $need{'$_'};
    }
  }
  }
  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{$_}}) {
      for ($func, @deps) {
        $file{needs}{'$_'} = 'static' if exists $need{'$_'};
      }
    }
  }
  if (exists $Sneed{$22}) {
    $file{defined $3 ? 'needed_global' : 'needed_static'}{$22}++;
  else { warning("Possibly wrong #define $1 in $filename") }
  }
  for (qw(uses needs uses_todo needed_global needed_static)) {
push @{$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;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");
my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;
for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {
unless ($API{$func}{nothxarg}) {
my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}
{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
if ($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*}

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

for $func (sort keys %{$file{uses_provided}}) {  
    if ($file{uses}{$func}) {  
        if (exists $file{uses_deps}{$func}) {  
            diag("Uses $func, which depends on ", join(' ', @{$file{uses_deps}{$func}}));  
        } else {  
            diag("Uses $func");  
        }  
    }  
    $warnings += hint($func);  
}

unless ($opt{quiet}) {  
    for $func (sort keys %{$file{uses_todo}}) {  
        print "*** WARNING: Uses $func, which may not be portable below perl ",  
            format_version($API{$func}{todo}), ", even with 'ppport'\n";  
        $warnings++;  
    }  
}

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");  
      } else {  
        diag("File needs $func, adding static request");  
      }  
      $pp .= "#define NEED_$func$suffix\n";
    }  
  }  
  if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {  
    $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*#$HS*include.*$ppport))/($pp)/m)  
    || ($c =~ s/^(?=$HS*#$HS*include.*XSUB.*$ppport))/($pp)/m)
\[
\text{|| (}$c \text{ =~ s/}^/$pp/);}
\]

\[
\text{else \{} \\
\text{if ($file\{has_inc_pport\}) \{} \\
\text{\hspace{1em}diag("No need to include "}{pppport}";)} \\
\text{$file\{changes\} += (}$c \text{ =~ s/}^{$HS*?}$HS*include.*$ppport\E.*?$LF//m);}
\]

\[
\text{# put back in our C comments}
\]

\[
\text{my $six;} \\
\text{my $cppc = 0;} \\
\text{my @ccom = @{$file\{ccom\}};} \\
\text{for $ix (0 .. $#ccom) \{} \\
\text{if (!$opt\{cplusplus\} && $ccom[$ix] =~ s!^//!!) \{} \\
\text{\hspace{1em}$cppc++;} \\
\text{$file\{changes\} += $c =~ s/$rcs$ix$rcce/$ccom[$ix] $cce/;} \\
\text{\}} \\
\text{else \{} \\
\text{\hspace{1em}$c =~ s/$rcs$ix$rcce/$ccom[$ix]/;} \\
\text{\}} \\
\text{\}} \\
\text{if ($cppc) \{} \\
\text{\hspace{1em}my $s = $cppc != 1 ? s' : ";} \\
\text{\hspace{2em}warning("Uses $cppc C++ style comment$s, which is not portable");} \\
\text{\}} \\
\text{my $s = $warnings != 1 ? s' : ";} \\
\text{\hspace{1em}my $warn = $warnings ? ($warnings warning$s) : ";} \\
\text{\hspace{2em}info("Analysis completed$warn");} \\
\text{if ($file\{changes\}) \{} \\
\text{\hspace{1em}if (exists $opt\{copy\}) \{} \\
\text{\hspace{2em}my $newfile = "$filename$opt\{copy\}";} \\
\text{\hspace{2em}if (-e $newfile) \{} \\
\text{\hspace{3em}error("$newfile' already exists, refusing to write copy of '$filename'";)} \\
\text{\hspace{2em}\}} \\
\text{\hspace{2em}else \{} \\
\text{\hspace{3em}local *F; \\
\text{\hspace{4em}if (open F, ">$newfile") \{} \\
\text{\hspace{5em}info("Writing copy of '$filename' with changes to 'newfile'";)} \\
\text{\hspace{5em}print F $c; \\
\text{\hspace{5em}close F; \\
\text{\hspace{5em}\}} \\
\text{\hspace{2em}\}} \\
\text{\hspace{2em}else \{} \\
\text{\hspace{3em}error("Cannot open '$newfile' for writing: $!";)} \
\text{\}} \\
\text{\}} 
\]
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 try_use { eval "use @_;"; return @$_
} 

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 try_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;
            }
            close F;
        }
    }
}
unlink $tmp;
  return $diff;
}

unlink $tmp;
}
else {
  error("Cannot open '$tmp' for writing: $!");
}

return undef;
}

sub rec_depend
{
  my($func, $seen) = @_;:
  return () unless exists $depends{$func};
  $seen = { %{$seen||{ }} }:
  return () if $seen->{$func}++:
  my %s:
  grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}}:
  } @{$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;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
my $warn = $warnings{$func};
$warn =~ s!^!*** !mg;
print "*** WARNING: $func\n", $warn;
$rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($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
See perldoc $0 for details.
ENDUSAGE
exit 2;
}
sub strip
{
my $self = do { local(@ARGV,$/)=($0); <> };
my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^=\w+/ms;
$copy =~ s/^(?=\S+)/ /gms;
$self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;

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$self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if (!$ARGV || $ARGV[0] eq '--unstrip') {
    eval { require Devel::PPPort; }
    $@ and die "Cannot require Devel::PPPort, please install\n"
    if (eval $Devel::PPPort::VERSION < $VERSION) {
        die "$0 was originally generated with Devel::PPPort $VERSION, please install a newer version, or --unstrip will not work\n"
    }
    Devel::PPPort::WriteFile($0);
    exit 0;
}
print <<END;
Sorry, but this is a stripped version of $0.
To be able to use its original script and doc functionality, please try to regenerate this file using:

$^X $0 --unstrip
END

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Found in path(s):
No license file was found, but licenses were detected in source scan.
License: GPL+ or Artistic

Found in path(s):
No license file was found, but licenses were detected in source scan.

---
abstract: 'Perl interpreter-based threads'
author:
  - 'Artur Bergman, Jerry D. Hedden <jdhedden AT cpan DOT org>'
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: threads
no_index:
directory:
  - t
  - inc
requires:
  Carp: '0'
  Config: '0'
  ExtUtils::testlib: '0'
  Hash::Util: '0'
  IO::File: '0'
  Test::More: '0'
  XSLoader: '0'
  overload: '0'
  strict: '0'
  warnings: '0'
  version: '2.21'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):

1.72 lua 5.3.4-11.el8
1.72.1 Available under license:
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1.73 jackson-mapper-asl 1.8.6
1.73.1 Available under license:
/* Jackson JSON-processor.
 *
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1.74 wso2-carbon-discovery-cxf 4.7.19

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**1.80 wso2-am-multitenancy-dashboard-ui**

**2.6.0**

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

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Open Source Used In Connected-Pharma 1.5-UI & ServiceLayer 796
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1.81 wso2-carbon-mediation-ntaskadmin

4.6.105

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1.82 jackson-databind 2.9.6
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# Jackson JSON processor

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It is currently developed by a community of developers, as well as supported
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backport-util-concurrent-2.2.jar
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jaxen-1.1.1.jar
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groovy-all-1.0.jar
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jsch-0.1.31.jar 
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bcprov-jdk15-132.jar

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wsdl4j-1.6.2.jar

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Protocol Buffers for Go with Gadgets

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

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import (
    "encoding/json"
    "github.com/go-openapi/swag"
)

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    LicenseProps
    VendorExtensible
}

type LicenseProps struct {
    Name string `json:"name",omitempty`  
    URL string `json:"url",omitempty`}

func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

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tomb - support for clean goroutine termination in Go.

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* github.com/BurntSushi/toml - https://github.com/BurntSushi/toml

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* github.com/rogpeppe/go-internal - https://github.com/rogpeppe/go-internal

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* golang.org/x/mod/module - https://github.com/golang/mod

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* gogrep - https://github.com/mvdan/gogrep

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 */

package minio

import (
    "bytes"
    "context"
    "encoding/xml"
    "fmt"
    "net/http"
    "net/url"

    "github.com/minio/minio-go/v6/pkg/s3utils"
)

// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html

type objectLegalHold struct {
    XMLNS string    `xml:"xmlns,attr.omitempty"
    XMLName xml.Name    `xml:"LegalHold"
    Status LegalHoldStatus `xml:"Status,omitempty"
}

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {
    VersionID string
    Status    *LegalHoldStatus
}

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call

type GetObjectLegalHoldOptions struct {
    VersionID string
}

// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string

const {
    // LegalHoldEnabled indicates legal hold is enabled
    LegalHoldEnabled LegalHoldStatus = "ON"

    // LegalHoldDisabled indicates legal hold is disabled
    LegalHoldDisabled LegalHoldStatus = "OFF"
}

func (r LegalHoldStatus) String() string {
    return string(r)
}

// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
    return r == LegalHoldEnabled || r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus) (*objectLegalHold, error) {
    if status == nil {
        return nil, fmt.Errorf("Status not set")
    }
    if !status.IsValid() {
        return nil, fmt.Errorf("invalid legal hold status \"%v\", status)"
    }
    legalHold := &objectLegalHold{
        Status: *status,
    }
    return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c Client) PutObjectLegalHold(bucketName, objectName string, opts PutObjectLegalHoldOptions) error {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return err
    }
    return nil
}
if err := s3utils.CheckValidObjectName(objectName); err != nil {
    return err
}

// Get resources properly escaped and lined up before
// using them in http request.
urlValues := make(url.Values)
urlValues.Set("legal-hold", "")

if opts.VersionID != "" {
}

lh, err := newObjectLegalHold(opts.Status)
if err != nil {
    return err
}

lhData, err := xml.Marshal(lh)
if err != nil {
    return err
}

reqMetadata := requestMetadata{
    bucketName:       bucketName,
    objectName:       objectName,
    queryValues:      urlValues,
    contentBody:      bytes.NewReader(lhData),
    contentLength:    int64(len(lhData)),
    contentMD5Base64: sumMD5Base64(lhData),
    contentSHA256Hex: sum256Hex(lhData),
}

// Execute PUT Object Legal Hold.
resp, err := c.executeMethod(context.Background(), "PUT", reqMetadata)
defer closeResponse(resp)
if err != nil {
    return err
}
if resp != nil {
        return httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
return nil
// GetObjectLegalHold gets legal-hold status of given object.
func (c Client) GetObjectLegalHold(bucketName, objectName string, opts GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return nil, err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return nil, err
    }
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", ")")
    if opts.VersionID != "" {
    }
    // Execute GET on bucket to list objects.
    resp, err := c.executeMethod(context.Background(), "GET", requestMetadata{
        bucketName:      bucketName,
        objectName:      objectName,
        queryValues:     urlValues,
        contentSHA256Hex: emptySHA256Hex,
    });
    defer closeResponse(resp)
    if err != nil {
        return nil, err
    }
    if resp != nil {
        if resp.StatusCode != http.StatusOK {
            return nil, httpRespToErrorResponse(resp, bucketName, objectName)
        }
    }
    lh := &objectLegalHold{}
    if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
        return nil, err
    }
    return &lh.Status, nil
}

package api

import (
    "io/ioutil"
    "strings"
    "time"
)
type License struct {
    // The unique identifier of the license
    LicenseID string `json:"license_id"

    // The customer ID associated with the license
    CustomerID string `json:"customer_id"

    // If set, an identifier that should be used to lock the license to a
    // particular site, cluster, etc.
    InstallationID string `json:"installation_id"

    // The time at which the license was issued
    IssueTime time.Time `json:"issue_time"

    // The time at which the license starts being valid
    StartTime time.Time `json:"start_time"

    // The time after which the license expires
    ExpirationTime time.Time `json:"expiration_time"

    // The time at which the license ceases to function and can
    // no longer be used in any capacity
    TerminationTime time.Time `json:"termination_time"

    // The product the license is valid for
    Product string `json:"product"

    // License Specific Flags
    Flags map[string]interface{} `json:"flags"

    // Modules is a list of the licensed enterprise modules
    Modules []string `json:"modules"

    // List of features enabled by the license
    Features []string `json:"features"
}

type LicenseReply struct {
    Valid    bool
    License  *License
    Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return "", err
    }
    defer resp.Body.Close()
    data, err := ioutil.ReadAll(resp.Body)
    if err != nil {
        return "", err
    }
    return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("DELETE", "/v1/operator/license")
    r.setWriteOptions(opts)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }
    return &reply, nil
}

func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    // LicensePut will replace the current license with a new one.
    _,
_, resp, err := requireOK(op.c.doRequest(r))
if err != nil {
    return nil, err
}
defer resp.Body.Close()

if err := decodeBody(resp, &reply); err != nil {
    return nil, err
}

return &reply, nil

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1.100 wso2-carbon-identity-mgt 5.12.153

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1.103 libmodulemd 2.9.4-2.el8

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1.104 json-schema-validator-all 2.2.6.wso2v4

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### Pablo Pinhero

* Add a "lib" target to the build: jar with all dependencies builtin.

### Corey Sciuto

* Tests for date-time format attribute; date-time-millis format attribute (now superseded by date-time itself).

### Matt Bishop:

* Initial OSGi support for maven (now superseded by Gradle).

### Kelvin Pho

* Pointer collectors for draft v4 keywords (since then moved to -core).

1.105 wso2-carbon-mediation-security 4.6.105

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jsch-0.1.31.jar

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quickfixj-msg-fix42-1.3.1.jar
quickfixj-msg-fix43-1.3.1.jar
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2000-05-05

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The original versions are tagged 'DOM_LEVEL_2'

The specification of DOM Level 2's various parts is at:
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(http://schemas.xmlsoap.org/ws/2005/02/rm/wsrm.xsd)
(http://www.w3.org/2005/08/addressing/ws-addr.xsd)
(http://www.w3.org/TR/ws-metadata-exchange/)
(http://schemas.xmlsoap.org/ws/2004/09/mex/)
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  jar/io/netty/buffer/UnsafeDirectSwappedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-
  jar/io/netty/buffer/UnsafeHeapSwappedByteBuf.java
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* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/AbstractPooledDerivedByteBuf.java
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* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-
jar/io/netty/buffer/PooledSlicedByteBuf.java
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jar/io/netty/buffer/WrappedUnpooledUnsafeDirectByteBuf.java
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* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-
jar/io/netty/buffer/UnpooledUnsafeNoCleanerDirectByteBuf.java
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  jar/io/netty/buffer/ByteBufAllocatorMetricProvider.java
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  jar/io/netty/buffer/PoolArenaMetric.java
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  jar/io/netty/buffer/FixedCompositeByteBuf.java
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* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4.1.49-final-sources-1.jar/io/netty/buffer/DefaultByteBufHolder.java
* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4.1.49-final-sources-1.jar/io/netty/buffer/PooledUnsafeDirectByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4.1.49-final-sources-1.jar/io/netty/buffer/ByteBufProcessor.java
* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4.1.49-final-sources-1.jar/io/netty/buffer/AbstractReferenceCountedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4.1.49-final-sources-1.jar/io/netty/buffer/AbstractDerivedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4.1.49-final-sources-1.jar/io/netty/buffer/ByteBufHolder.java
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* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4.1.49-final-sources-1.jar/io/netty/buffer/SimpleLeakAwareByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4.1.49-final-sources-1.jar/io/netty/buffer/WrappedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4.1.49-final-sources-1.jar/io/netty/buffer/UnreleasableByteBuf.java

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1.139 wso2-carbon-registry-properties-stub

4.6.38

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1.141 wso2-carbon-event-common 4.6.49

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1.142 wso2-carbon-logging-admin-stub 4.6.49

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1.143 wso2-carbon-registry-extensions-ui
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1.152 java-property-utils 1.9

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1.153 wso2-carbon-metrics-view-ui 1.2.3

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1.154 python-dateutil 2.6.1-1.ph1

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1.155 wso2-carbon-apimgt-gateway-stub

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### 1.169 jackson-jaxrs-json-provider 2.4.5

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1.172 wso2-carbon-identity-authenticator-saml2-sso-ui 5.2.9

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* /opt/ws_local/PERMITS_SQL/1068232293_1594320747.73/0/netty-resolver-4.1.49-final-sources-1-jar/io/netty/resolver/DefaultAddressResolverGroup.java
* /opt/ws_local/PERMITS_SQL/1068232293_1594320747.73/0/netty-resolver-4.1.49-final-sources-1-jar/io/netty/resolver/HostsFileEntriesResolver.java
* /opt/ws_local/PERMITS_SQL/1068232293_1594320747.73/0/netty-resolver-4.1.49-final-sources-1-jar/io/netty/resolver/InetNameResolver.java
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* /opt/ws_local/PERMITS_SQL/1068232293_1594320747.73/0/netty-resolver-4.1.49-final-sources-1-jar/io/netty/resolver/HostsFileParser.java
* /opt/ws_local/PERMITS_SQL/1068232293_1594320747.73/0/netty-resolver-4.1.49-final-sources-1-jar/io/netty/resolver/AbstractAddressResolver.java
/opt/ws_local/PERMITS_SQL/1068232293_1594320747.73/0/netty-resolver-4-1-49-final-sources-1-jar/io/netty/resolver/InetSocketAddressResolver.java
*/opt/ws_local/PERMITS_SQL/1068232293_1594320747.73/0/netty-resolver-4-1-49-final-sources-1-jar/io/netty/resolver/AddressResolver.java
*/opt/ws_local/PERMITS_SQL/1068232293_1594320747.73/0/netty-resolver-4-1-49-final-sources-1-jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java
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*/opt/ws_local/PERMITS_SQL/1068232293_1594320747.73/0/netty-resolver-4-1-49-final-sources-1-jar/io/netty/resolver/HostsFileEntries.java
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* /opt/ws_local/PERMITS_SQL/1068232293_1594320747.73/0/netty-resolver-4-1-49-final-sources-1-jar/io/netty/resolver/RoundRobinInetAddressResolver.java

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Chad Walters <chad@powerset.com>
- TJSONProtocol for C++ and Java

Nitay <nitayj@gmail.com>
- Support for "make check"

William Morgan <w@adap.tv>
- Miscellaneous Ruby improvements

Ben Maurer <bmaurer@andrew.cmu.edu>
- Restructuring the way Autoconf is used

Patrick Collison <patrick@collison.ie>
- Smalltalk bindings

Dave Simpson <dave@powerset.com>
- Better support for connection tracking in the C++ server
- Miscellaneous fixes

Igor Afanasyev <afan@evernote.com>
- Perl HttpClient and bugfixes

Todd Berman <tberman@imeem.com>
- MinGW port of the compiler
- C# bindings
- MS build task
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Release 20070917
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Dave Engberg <engberg@gmail.com>
-JavaBean/JavaDoc enhancements

Andrew McGeachie <geechorama@gmail.com>
-Cocoa/Objective-C support

Ben Maurer <bmaurer@andrew.cmu.edu>
-Python performance enhancements, fastbinary support

Andrew Lutomirski <andy@luto.us>
-Added optional/required keywords for C++ objects
-Added comparison operators for C++ structs

Johan Oskarsson <johan@oksarsson.nu>
-Java findbugs compliance fixes

Paul Saab <ps@powerset.com>
-IPv6 support for TSocket in C++/Python

Kevin Clark <kevin@powerset.com>
-Significant overhaul of Ruby code generation and servers

Simon Forman <sforman@gmail.com>
-TProcessorFactory abstraction for Java servers

Jake Luciani <jakers@gmail.com>
-Perl code generation, libraries, test code

David Reiss <dreiss@stanford.edu>
-strings.h include fix for bzero
-Endianness fixes on TBinaryProtocol double serialization
-Improved ntohl,htonl implementation

Dan Li <dto@dev.java.net>
-Java TestServer and Tutorial Fixes

Kevin Ko <kevin.s.ko@gmail.com>
-Fix for unnecessary std::string copy construction in Protocol/Exception

Paul Querna <pquerna@apache.org>
-Autoconf error message fix for libevent detection
-clock_gettime implementation for OSX

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lib/csharp/src/Transport/TTTransportException.cs
lib/csharp/src/Transport/TTTransportFactory.cs
lib/csharp/ThriftMSBuildTask/Properties/AssemblyInfo.cs
lib/csharp/ThriftMSBuildTask/ThriftBuild.cs
lib/csharp/ThriftMSBuildTask/ThriftMSBuildTask.csproj
lib/rb/lib/thrift.rb
lib/st/README
lib/st/thrift.st
test/OptionalRequiredTest.cpp
test/OptionalRequiredTest.thrift
test/ThriftTest.thrift

For the aclocal/ax_boost_base.m4 and contrib/fb303/aclocal/ax_boost_base.m4 components:
For the compiler/cpp/src/md5.[ch] components:

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L. Peter Deutsch
ghost@aladdin.com
*/

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 */
```

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* /opt/ws_local/PERMITS_SQL/1007102998_1592907492.52/0/high-scale-lib-1-0-3-tar-gz/high-scale-lib-
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1.0.3/src/test/java/org/cliffc/high_scale_lib/NonBlockingHashMapTest.java

* /opt/ws_local/PERMITS_SQL/1007102998_1592907492.52/0/high-scale-lib-1-0-3-tar-gz/high-scale-lib-1.0.3/src/test/java/org/cliffc/high_scale_lib/NonBlockingHashSetTest.java

* /opt/ws_local/PERMITS_SQL/1007102998_1592907492.52/0/high-scale-lib-1-0-3-tar-gz/high-scale-lib-1.0.3/src/main/java/org/cliffc/high_scale_lib/NonBlockingHashMapLong.java

* /opt/ws_local/PERMITS_SQL/1007102998_1592907492.52/0/high-scale-lib-1-0-3-tar-gz/high-scale-lib-1.0.3/src/main/java/org/cliffc/high_scale_lib/Counter.java

* /opt/ws_local/PERMITS_SQL/1007102998_1592907492.52/0/high-scale-lib-1-0-3-tar-gz/high-scale-lib-1.0.3/src/main/java/org/cliffc/high_scale_lib/NonBlockingIdentityHashMap.java

* /opt/ws_local/PERMITS_SQL/1007102998_1592907492.52/0/high-scale-lib-1-0-3-tar-gz/high-scale-lib-1.0.3/src/main/java/org/cliffc/high_scale_lib/NonBlockingSetInt.java

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* /opt/ws_local/PERMITS_SQL/1007102998_1592907492.52/0/high-scale-lib-1-0-3-tar-gz/high-scale-lib-1.0.3/Testing/NBHS_Tester/perf_set_test.java

* /opt/ws_local/PERMITS_SQL/1007102998_1592907492.52/0/high-scale-lib-1-0-3-tar-gz/high-scale-lib-1.0.3/Testing/NBHM_Tester/perf_hashlong_test.java

* /opt/ws_local/PERMITS_SQL/1007102998_1592907492.52/0/high-scale-lib-1-0-3-tar-gz/high-scale-lib-1.0.3/Testing/CAT_Tester/hash_test.java

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4.6.49

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1.190 jackson-dataformat-yaml 2.9.6

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1.193 perl-socket 2.027-3.el8

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1.224 accessors-smart 1.2

1.225 iconv 2.28

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* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-jar/META-INF/maven/org.slf4j/log4j-over-slf4j/pom.xml
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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/Level.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources.jar/org/apache/log4j/spi/OptionHandler.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources.jar/org/apache/log4j/spi/Configurator.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources.jar/org/apache/log4j/spi/HierarchyEventListener.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources.jar/org/apache/log4j/MDC.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources.jar/org/apache/log4j/spi/Filter.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources.jar/org/apache/log4j/PropertyConfigurator.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources.jar/org/apache/log4j/spi/LoggerRepository.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources.jar/org/apache/log4j/FileAppender.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources.jar/org/apache/log4j/LogManager.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources.jar/org/apache/log4j/Category.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources.jar/org/apache/log4j/RollingFileAppender.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources.jar/org/apache/log4j/AppenderSkeleton.java
1.232 jericho-html 2.4

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import java.util.*;

/**
 * Provides a generic implementation of the abstract {@link StartTagType} class based on the most common start tag behaviour.
 * <p>
 * This class is only of interest to users who wish to create <a href="TagType.html#Custom">custom tag types</a>.
 * <p>
 * The only external difference between this class and its abstract superclass {@link StartTagType} is that it provides a default
 * implementation of the {@link #constructTagAt(Source, int pos)} method.
 * <p>
 * Most of the <a href="Tag.html#Predefined">predefined</a> start tag types are implemented using this class or a subclass of it.
 * <p>
 * @see EndTagTypeGenericImplementation
 */

public class StartTagTypeGenericImplementation extends StartTagType {
    final boolean nameCharAfterPrefixAllowed;

    /**
     * Constructs a new <code>StartTagTypeGenericImplementation</code> object with the specified properties.
     * <br />(<a href="TagType.html#ImplementationAssistance">implementation assistance</a> method)
     * <p>
     * This is equivalent to calling
     * <br /><code>new&nbsp;</code>{@link #StartTagTypeGenericImplementation(String,String,String,EndTagType,boolean,boolean,boolean)
    StartTagTypeGenericImplementation}<code>(description,startDelimiter,closingDelimiter,correspondingEndTagType,
    isServerTag,false,false)</code>.  
     * <p>
     * @param description a {@linkplain getDescription() description} of the new start tag type useful for debugging purposes.
     * @param startDelimiter the {@linkplain #getStartDelimiter() start delimiter} of the new start tag type.
     * @param closingDelimiter the {@linkplain #getClosingDelimiter() closing delimiter} of the new start tag type.
     * @param correspondingEndTagType the {@linkplain #getCorrespondingEndTagType() corresponding end tag type} of the new start tag type.
     * @param isServerTag indicates whether the new start tag type is a {@linkplain #isServerTag() server tag}.
     */
    protected StartTagTypeGenericImplementation(final String description, final String startDelimiter, final String closingDelimiter, final EndTagType correspondingEndTagType, final boolean isServerTag) {
        this(description,startDelimiter,closingDelimiter,correspondingEndTagType,isServerTag,false,false);
    }
}
/**
 * Constructs a new <code>StartTagTypeGenericImplementation</code> object with the specified properties.
 * <br/>(<a href="TagType.html#ImplementationAssistance">implementation assistance</a> method)
 *
 * @param description a [@linkplain getDescription() description] of the new start tag type useful for debugging purposes.
 * @param startDelimiter the [@linkplain #getStartDelimiter() start delimiter] of the new start tag type.
 * @param closingDelimiter the [@linkplain #getClosingDelimiter() closing delimiter] of the new start tag type.
 * @param correspondingEndTagType the [@linkplain #getCorrespondingEndTagType() corresponding end tag type] of the new start tag type.
 * @param isServerTag indicates whether the new start tag type is a [@linkplain #isServerTag() server tag].
 * @param hasAttributes indicates whether the new start tag type [@linkplain #hasAttributes() has attributes].
 * @param isNameAfterPrefixRequired indicates whether a [@linkplain #isNameAfterPrefixRequired() name is required after the prefix].
 */
protected StartTagTypeGenericImplementation(final String description, final String startDelimiter, final String closingDelimiter, final EndTagType correspondingEndTagType, final boolean isServerTag, final boolean hasAttributes, final boolean isNameAfterPrefixRequired) {
    super(description,startDelimiter,closingDelimiter,correspondingEndTagType,isServerTag,hasAttributes,isNameAfterPrefixRequired);
    nameCharAfterPrefixAllowed=(getNamePrefix().length()==0 || !Character.isLetter(getNamePrefix().charAt(getNamePrefix().length()-1));
}

/**
 * Constructs a tag of this type at the specified position in the specified source document if it matches all of the required features.
 * <br/>(<a href="TagType.html#DefaultImplementation">default implementation</a> method)
 * <p>
 * This default implementation performs the following steps:
 * <ul class="Separated">
 *  <li>
 *   If a [@linkplain #isNameAfterPrefixRequired() name is required after the prefix], search for a valid
 *   [@linkplain Tag#isXMLName(CharSequence) XML tag name] directly after the
 *   [@linkplain #getNamePrefix() name prefix] using the [@link Source#findNameEnd(int pos)] method.
 *   If one is found, set the [@linkplain Tag#getName() name] to include it, otherwise return <code>null</code>.
 *  <li>
 *   If the last character of the [@linkplain #getNamePrefix() name prefix] is a letter
 *   (indicating that the prefix includes the full [@linkplain Tag#getName() name] of the tag),
 *   and the character following the prefix in the source text is also a letter
 *   or any other valid [@linkplain Tag#isXMLNameChar(char) XML name character],
 *   return <code>null</code>.
 *  <li>
 *   Example: the source text "<code>&lt;?xmlt ?&gt;</code>" should not be recognised as an
 *   [@linkplain #XML_PROCESSING_INSTRUCTION XML processing instruction], which has the prefix
 *   "<code>&lt;&amp;lt;?xml</code>".
 *  <li>
 *   If the tag type [@linkplain #hasAttributes() has attributes], call
 *   [@link #parseAttributes(Source,int,String) parseAttributes(source,pos,name)] to parse them.
 */
* Return `<code>null</code>` if too many errors occur while parsing the attributes.
* `<li>`
  * Find the `{@link Tag#getEnd() end}` of the tag using the `{@link findEnd(Source, int pos)}` method,
  * where `<code>pos</code>` is either the end of the `{@link StartTag#getAttributes() attributes}` segment or
  * the end of the
  * `{@link Tag#getName() name}` depending on whether the tag type `{@link #hasAttributes() has
  * attributes}`.
  * Return `<code>null</code>` if the end of the tag can not be found.
  * `<li>`
  * Construct the `{@link StartTag} object using the
  * `{@link constructStartTag(Source,int,int,String,Attributes) constructStartTag(Source, int pos, int end, String
  * name, Attributes)`
  * method with the argument values collected over the previous steps.
  * `<ol>`
  * `<p>`
  * See `{@link TagType#constructTagAt(Source, int pos)}` for more important information about this method.
  * *
  * * @param source  the `{@link Source} document.
  * * @param pos  the position in the source document.
  * * @return a tag of this type at the specified position in the specified source document if it meets all of the required
  * features, or `<code>null</code>` if it does not meet the criteria.
  * */
protected Tag constructTagAt(final Source source, final int pos) {
final ParseText parseText=source.getParseText();
final int nameBegin=pos+1;
String name=getNamePrefix();
int nameEnd=nameBegin+getNamePrefix().length();
if (isNewNameAfterPrefixRequired()) {
final int extendedNameEnd=source.findNameEnd(nameEnd);
if (extendedNameEnd==-1) return null;
name=parseText.substring(nameBegin,extendedNameEnd);
nameEnd=extendedNameEnd;
} else if (!nameCharAfterPrefixAllowed && Tag.isXMLNameChar(parseText.charAt(nameEnd))) {
return null;
}
int end;
Attributes attributes=null;
if (hasAttributes()) {
// it is necessary to get the attributes so that we can be sure that the search on the closing delimiter doesn't pick up
// anything from the attribute values, which can legally contain ">" characters.
attributes=parseAttributes(source,pos,name);
if (attributes==null) return null; // happens if attributes not properly formed
end=findEnd(source,attributes.getEnd()); // should always return a valid end
} else {
end=findEnd(source,nameEnd);
if (end==-1) {
if (source.logger.isInfoEnabled()) source.logger.info(source.getRowColumnVector(pos).appendTo(new
StringBuffer(200).append("StartTag ").append(name).append(" at ").append(" not recognised as type
"))

protected int findEnd(final Source source, final int pos) {
    final int delimiterBegin = source.getParseText().indexOf(getClosingDelimiter(), pos);
    return (delimiterBegin == -1 ? -1 : delimiterBegin + getClosingDelimiter().length());
}

// Jericho HTML Parser - Java based library for analysing and manipulating HTML
// Version 2.4
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// http://jerichohtml.sourceforge.net/
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package au.id.jericho.lib.html;

import java.util.*;

/**
 * Provides a generic implementation of the abstract { @link EndTagType} class based on the most common end tag behaviour.
 * *
 * This class is only of interest to users who wish to create <a href="TagType.html#Custom">custom tag types</a>.
 * *
 * The differences between this class and its abstract superclass { @link EndTagType} are:
 * *
 * <ul>
 *  <li>The introduction of the { @link #isStatic()} IsStatic} property.
 *  <li>The { @link #constructTagAt(Source, int pos)} method has a default implementation.
 * </ul>
 * *
 * Most of the <a href="Tag.html#Predefined">predefined</a> end tag types are implemented using this class or a subclass of it.
 * *
 * @see StartTagTypeGenericImplementation
 */

public class EndTagTypeGenericImplementation extends EndTagType {
    private final String staticString;

    /**
     * Constructs a new <code>EndTagTypeGenericImplementation</code> object based on the specified properties.
     * (implementation assistance method)
     *
     * The purpose of the <code>isStatic</code> parameter is explained in the { @link #isStatic()} IsStatic} property description.
     *
     * @param description  a {linkplain #getDescription() description} of the new end tag type useful for debugging purposes.
     * @param startDelimiter  the {linkplain #getStartDelimiter() start delimiter} of the new end tag type.
     * @param closingDelimiter  the {linkplain #getClosingDelimiter() closing delimiter} of the new end tag type.
     * @param isServerTag  indicates whether the new end tag type is a {linkplain #isServerTag() server tag}.
     * @param isStatic  determines whether the end tag text {linkplain #isStatic()} is static.
     */

    protected EndTagTypeGenericImplementation(final String description, final String startDelimiter, final String closingDelimiter, final boolean isServerTag, final boolean isStatic) {
        super(description, startDelimiter, closingDelimiter, isServerTag);
        staticString = isStatic ? (startDelimiter + closingDelimiter) : null;
    }

    /**
     * Indicates whether the {linkplain #generateHTML(String) end tag text} is static.
     * *
     * <br/>
     */

}
The purpose of this property is to determine the behaviour of the \{@link #generateHTML(String startTagName)\} method.

If this property is \texttt{true}, the \{@linkplain #generateHTML(String)\} is constant for all tags of this type.

If this property is \texttt{false}, the \{@linkplain #generateHTML(String)\} includes the \{@linkplain StartTag#getName\} of the corresponding \{@linkplain StartTag start tag\}.

\{@link MasonTagTypes#MASON_COMPONENT_CALLED_WITH_CONTENT_END\} is the only \texttt{predefined} end tag for which this property is \texttt{true}.

All tags of this type have the constant tag text \texttt{\"&lt;/&amp;&gt;\"}.

If the \{@linkplain #generateHTML(String)\} is static, otherwise \texttt{false}.

protected final boolean isStatic() {
    return staticString!=null;
}

/**
 * Generates the HTML text of an \{@linkplain EndTag end tag\} of this type given the \{@linkplain StartTag#getName\} of a corresponding \{@linkplain StartTag start tag\}.
 * (\texttt{property} method)
 * This implementation overrides the default implementation in \{@link EndTagType#generateHTML(String startTagName)\}.
 * @param startTagName  the \{@linkplain StartTag#getName\} of a corresponding \{@linkplain StartTag start tag\}.
 * @return the HTML text of an \{@linkplain EndTag end tag\} of this type given the \{@linkplain StartTag#getName\} of a corresponding \{@linkplain StartTag start tag\}.  
 */
public String generateHTML(final String startTagName) {
    return staticString!=null ? staticString : START_DELIMITER_PREFIX+startTagName+getClosingDelimiter();
}

/**
 * Constructs a tag of this type at the specified position in the specified source document if it matches all of the
required features.
 * <br />(<a href="TagType.html#DefaultImplementation">default implementation</a> method)
 * <p>
 * This default implementation ensures that the source text matches the possible output of the
 * [@link #generateHTML(String startTagName)] method.
 * <p>
 * If the value of the [@link #isStatic() IsStatic] property is <code>false</code>, this implementation ensures that the
 * source text matches the expression:<br />
 * [@link #getStartDelimiter() getStartTagDelimiter()]<code>+</code><i>name</i><code>+</code>@link #getClosingDelimiter()<br />
 * where <i>name</i> is a valid [@linkplain Tag#isXMLName(CharSequence) XML tag name].
 * The [@linkplain Tag#getName() name] of the constructed end tag becomes [@link #getNamePrefix() getNamePrefix()]<code>+</code><i>name</i><code>"</code>
 * <p>
 * If the value of the [@link #isStatic() IsStatic] property is <code>true</code>, this implementation ensures that the
 * source text matches the static expression:<br />
 * [@link #getStartDelimiter() getStartTagDelimiter()]<code>+</code>@link #getClosingDelimiter()<br />
 * The [@linkplain Tag#getName() name] of the constructed end tag is the value of the [@link #getNamePrefix() getNamePrefix()] method.
 * <p>
 * See [@link TagType#constructTagAt(Source, int pos)] for more important information about this method.
 * <br />
 * @param source the [@linkplain Source] document.
 * @param pos the position in the source document.
 * @return a tag of this type at the specified position in the specified source document if it meets all of the required
features, or <code>null</code> if it does not meet the criteria.
 */
protected Tag constructTagAt(final Source source, final int pos) {
    final ParseText parseText=source.getParseText();
    final int nameBegin=pos+START_DELIMITER_PREFIX.length();
    String name=null;
    final int startDelimeterEnd=pos+getStartDelimiter().length();
    int end=-1;
    if (isStatic()) {
        name=getNamePrefix();
        if (!parseText.containsAt(getClosingDelimiter(),startDelimeterEnd)) {
            if (source.logger.isInfoEnabled()) source.logger.info(source.getRowColumnVector(pos).appendTo(new
StringBuffer(200).append("EndTag of expected format ").append(staticString).append(" not

recognised as type "").append(getDescription()).append(" because it is missing the closing delimiter").toString();
    return null;
  }
  end=startDelimiterEnd+getClosingDelimiter().length();
} else {
    final int nameEnd=source.findNameEnd(startDelimiterEnd);
    if (nameEnd==-1) return null;
    name=parseText.substring(nameBegin,nameEnd);
    if (!parseText.containsAt(getClosingDelimiter(),nameEnd)) {
      if (source.logger.isInfoEnabled()) source.logger.info(source.getRowColumnVector(pos).appendTo(new
        StringBuffer(200).append("EndTag ").append(name).append(" at ").append(" not recognised as type 
        ").append(getDescription()).append(" because its closing delimiter does not immediately follow its
        name").toString());
      return null;
    }
    end=nameEnd+getClosingDelimiter().length();
  }
  return constructEndTag(source,pos,end,name);
}

1.233 h2 1.2.140

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1.239 perl-threads-shared 1.58-2.el8

1.239.1 Available under license:

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---
abstract: 'Perl extension for sharing data structures between threads'
author:
- 'Artur Bergman, Jerry D. Hedden <jdhedden AT cpan DOT org>'
buildRequires:
  ExtUtils::MakeMaker: '0'
configureRequires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl
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name: threads-shared
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  - inc
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  Scalar::Util: '0'
  Test::More: '0'
  XSLoader: '0'
  strict: '0'
  threads: '1.73'
  warnings: '0'
  version: '1.58'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

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=head1 NAME

threads::shared - Perl extension for sharing data structures between threads
This document describes threads::shared version 1.58

use threads;
use threads::shared;

my $var :shared;
my %hsh :shared;
my @ary :shared;

my ($scalar, @array, %hash);
share($scalar);
share(@array);
share(%hash);

$var = $scalar_value;
$var = $shared_ref_value;
$var = shared_clone($non_shared_ref_value);
$var = shared_clone({'foo' => [qw/foo bar baz/]})

$hsh{'foo'} = $scalar_value;
$hsh{'bar'} = $shared_ref_value;
$hsh{'baz'} = shared_clone($non_shared_ref_value);
$hsh{'quz'} = shared_clone([1..3]);

$ary[0] = $scalar_value;
$ary[1] = $shared_ref_value;
$ary[2] = shared_clone($non_shared_ref_value);
$ary[3] = shared_clone([ {}, [] ]); 

{ lock(%hash); ... } 

cond_wait($scalar);
cond_timedwait($scalar, time() + 30);
cond_broadcast(@array);
cond_signal(%hash);

my $lockvar :shared;
# condition var != lock var
cond_wait($var, $lockvar);
cond_timedwait($var, time()+30, $lockvar);

By default, variables are private to each thread, and each newly created
thread gets a private copy of each existing variable. This module allows you to share variables across different threads (and pseudo-forks on Win32). It is used together with the L<threads> module.

This module supports the sharing of the following data types only: scalars and scalar refs, arrays and array refs, and hashes and hash refs.

=head1 EXPORT

The following functions are exported by this module: C<share>, C<shared_clone>, C<is_shared>, C<cond_wait>, C<cond_timedwait>, C<cond_signal> and C<cond_broadcast>

Note that if this module is imported when L<threads> has not yet been loaded, then these functions all become no-ops. This makes it possible to write modules that will work in both threaded and non-threaded environments.

=head1 FUNCTIONS

=over 4

=item share VARIABLE

C<share> takes a variable and marks it as shared:

my ($scalar, @array, %hash);
share($scalar);
share(@array);
share(%hash);

C<share> will return the shared rvalue, but always as a reference.

Variables can also be marked as shared at compile time by using the C<:shared> attribute:

my ($var, %hash, @array) :shared;

Shared variables can only store scalars, refs of shared variables, or refs of shared data (discussed in next section):

my ($var, %hash, @array) :shared;
my $bork;

# Storing scalars
$var = 1;
$hash{'foo'} = 'bar';
$array[0] = 1.5;
# Storing shared refs
$txt = \%hash;
$hash{'ary'} = \@array;
$array[1] = \$var;

# The following are errors:
#   $var = \$bork;                   # ref of non-shared variable
#   $hash{'bork'} = [];             # non-shared array ref
#   push(@array, { 'x' => 1 });    # non-shared hash ref

=item shared_clone REF

C<shared_clone> takes a reference, and returns a shared version of its argument, performing a deep copy on any non-shared elements. Any shared elements in the argument are used as is (i.e., they are not cloned).

my $cpy = shared_clone({'foo' => [qw/foo bar baz/]});

Object status (i.e., the class an object is blessed into) is also cloned.

my $obj = {'foo' => [qw/foo bar baz/]};
bless($obj, 'Foo');
my $cpy = shared_clone($obj);
print(ref($cpy), "\n");     # Outputs 'Foo'

For cloning empty array or hash refs, the following may also be used:

$var = &share([]);   # Same as $var = shared_clone([]);
$var = &share({});   # Same as $var = shared_clone({});

Not all Perl data types can be cloned (e.g., globs, code refs). By default, C<shared_clone> will L<croak|Carp> if it encounters such items. To change this behaviour to a warning, then set the following:

$threads::shared::clone_warn = 1;

In this case, C<undef> will be substituted for the item to be cloned. If set to zero:

$threads::shared::clone_warn = 0;

then the C<undef> substitution will be performed silently.

=item is_shared VARIABLE

C<is_shared> checks if the specified variable is shared or not. If shared, returns the variable's internal ID (similar to C<refaddr()> (see L<Scalar::Util>). Otherwise, returns C<undef>. 

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if (is_shared($var)) {
    print("$var is shared\n");
} else {
    print("$var is not shared\n");
}

When used on an element of an array or hash, C<is_shared> checks if the specified element belongs to a shared array or hash. (It does not check the contents of that element.)

my %hash :shared;
if (is_shared(%hash)) {
    print("%hash is shared\n");
}

$hash{'elem'} = 1;
if (is_shared($hash{'elem'})) {
    print("$hash{'elem'} is in a shared hash\n");
}

C<lock> places a B<advisory> lock on a variable until the lock goes out of scope. If the variable is locked by another thread, the C<lock> call will block until it's available. Multiple calls to C<lock> by the same thread from within dynamically nested scopes are safe -- the variable will remain locked until the outermost lock on the variable goes out of scope.

C<lock> follows references exactly I<one> level:

my %hash :shared;
my $ref = %hash;
lock($ref);    # This is equivalent to lock(%hash)

Note that you cannot explicitly unlock a variable; you can only wait for the lock to go out of scope. This is most easily accomplished by locking the variable inside a block.

my $var :shared;
{
    lock($var);
    # $var is locked from here to the end of the block
    ...
}
# $var is now unlocked

As locks are advisory, they do not prevent data access or modification by
another thread that does not itself attempt to obtain a lock on the variable.

You cannot lock the individual elements of a container variable:

```perl
my %hash :shared;
$hash{'foo'} = 'bar';
#lock($hash{'foo'});       # Error
lock(%hash);               # Works
```

If you need more fine-grained control over shared variable access, see L<Thread::Semaphore>.

=item cond_wait VARIABLE

=item cond_wait CONDVAR, LOCKVAR

The C<cond_wait> function takes a B<locked> variable as a parameter, unlocks the variable, and blocks until another thread does a C<cond_signal> or C<cond_broadcast> for that same locked variable. The variable that C<cond_wait> blocked on is re-locked after the C<cond_wait> is satisfied. If there are multiple threads C<cond_wait>ing on the same variable, all but one will re-block waiting to reacquire the lock on the variable. (So if you're only using C<cond_wait> for synchronization, give up the lock as soon as possible). The two actions of unlocking the variable and entering the blocked wait state are atomic, the two actions of exiting from the blocked wait state and re-locking the variable are not.

In its second form, C<cond_wait> takes a shared, B<unlocked> variable followed by a shared, B<locked> variable. The second variable is unlocked and thread execution suspended until another thread signals the first variable.

It is important to note that the variable can be notified even if no thread C<cond_signal> or C<cond_broadcast> on the variable. It is therefore important to check the value of the variable and go back to waiting if the requirement is not fulfilled. For example, to pause until a shared counter drops to zero:

```perl
{ lock($counter); cond_wait($counter) until $counter == 0; }
```

=item cond_timedwait VARIABLE, ABS_TIMEOUT

=item cond_timedwait CONDVAR, ABS_TIMEOUT, LOCKVAR

In its two-argument form, C<cond_timedwait> takes a B<locked> variable and an absolute timeout in I<epoch> seconds (see L<time() in perlfunc|perlfunc/time> for more) as parameters, unlocks the variable, and blocks until the timeout is reached or another thread signals the variable. A false value is
returned if the timeout is reached, and a true value otherwise. In either case, the variable is re-locked upon return.

Like C<cond_wait>, this function may take a shared, B<locked> variable as an additional parameter; in this case the first parameter is an B<unlocked> condition variable protected by a distinct lock variable.

Again like C<cond_wait>, waking up and reacquiring the lock are not atomic, and you should always check your desired condition after this function returns. Since the timeout is an absolute value, however, it does not have to be recalculated with each pass:

    lock($var);
    my $abs = time() + 15;
    until ($ok = desired_condition($var)) {
        last if !cond_timedwait($var, $abs);
    }
    # we got it if $ok, otherwise we timed out!

=item cond_signal VARIABLE

The C<cond_signal> function takes a B<locked> variable as a parameter and unblocks one thread that's C<cond_wait>ing on that variable. If more than one thread is blocked in a C<cond_wait> on that variable, only one (and which one is indeterminate) will be unblocked.

If there are no threads blocked in a C<cond_wait> on the variable, the signal is discarded. By always locking before signaling, you can (with care), avoid signaling before another thread has entered cond_wait().

C<cond_signal> will normally generate a warning if you attempt to use it on an unlocked variable. On the rare occasions where doing this may be sensible, you can suppress the warning with:

    { no warnings 'threads'; cond_signal($foo); }

=item cond_broadcast VARIABLE

The C<cond_broadcast> function works similarly to C<cond_signal>. C<cond_broadcast>, though, will unblock B<all> the threads that are blocked in a C<cond_wait> on the locked variable, rather than only one.
L<threads::shared> exports a version of L<bless perlfunc/>"bless REF"> that works on shared objects such that L<blessings> propagate across threads.

# Create a shared 'Foo' object
my $foo :shared = shared_clone({});
bless($foo, 'Foo');

# Create a shared 'Bar' object
my $bar :shared = shared_clone({});
bless($bar, 'Bar');

# Put 'bar' inside 'foo'
$foo->{'bar'} = $bar;

# Rebless the objects via a thread
threads->create(sub {
    # Rebless the outer object
    bless($foo, 'Yin');

    # Cannot directly rebless the inner object
    #bless($foo->{'bar'}, 'Yang');

    # Retrieve and rebless the inner object
    my $obj = $foo->{'bar'};
bless($obj, 'Yang');
    $foo->{'bar'} = $obj;
})->join();

print(ref($foo), "\n");  # Prints 'Yin'
print(ref($foo->{'bar'}), "\n");  # Prints 'Yang'
print(ref($bar), "\n");  # Also prints 'Yang'

=head1 NOTES

L<threads::shared> is designed to disable itself silently if threads are not available. This allows you to write modules and packages that can be used in both threaded and non-threaded applications.

If you want access to threads, you must C<use threads> before you C<use threads::shared>. L<threads> will emit a warning if you use it after L<threads::shared>.

=head1 WARNINGS

=over 4
BUGS AND LIMITATIONS

When $share$ is used on arrays, hashes, array refs or hash refs, any data they contain will be lost.

```perl
my @arr = qw(foo bar baz);
share(@arr);
# @arr is now empty (i.e., == ());

# Create a 'foo' object
my $foo = { 'data' => 99 };
bless($foo, 'foo');

# Share the object
share($foo);  # Contents are now wiped out
print("ERROR: \$foo is empty\n")
   if (! exists($foo->{'data'}));
```

Therefore, populate such variables after declaring them as shared. (Scalar and scalar refs are not affected by this problem.)

Blessing a shared item after it has been nested in another shared item does not propagate the blessing to the shared reference:

```perl
my $foo = &share({});
my $bar = &share({});
$bar->{foo} = $foo;
bless($foo, 'baz');  # $foo is now of class 'baz',
   # but $bar->{foo} is unblessed.
```

Therefore, you should bless objects before sharing them.

It is often not wise to share an object unless the class itself has been written to support sharing. For example, a shared object's destructor may get called multiple times, once for each thread's scope exit, or may not get called at all if it is embedded inside another shared object. Another issue is that the contents of hash-based objects will be lost due to the above mentioned limitation. See $examples/class.pl$ (in the CPAN distribution of this module) for how to create a class that supports object sharing.
Destructors may not be called on objects if those objects still exist at global destruction time. If the destructors must be called, make sure there are no circular references and that nothing is referencing the objects before the program ends.

Does not support C<splice> on arrays. Does not support explicitly changing array lengths via $#array -- use C<push> and C<pop> instead.

Taking references to the elements of shared arrays and hashes does not autovivify the elements, and neither does slicing a shared array/hash over non-existent indices/keys autovivify the elements.

C<share()> allows you to C<< share($hashref->{key}) >> and C<< share($arrayref->[idx]) >> without giving any error message. But the C<< $hashref->[key] >> or C<< $arrayref->[idx] >> is B<not> shared, causing the error "lock can only be used on shared values" to occur when you attempt to C<< lock($hashref->[key]) >> or C<< lock($arrayref->[idx]) >> in another thread.

Using C<refaddr()> is unreliable for testing whether or not two shared references are equivalent (e.g., when testing for circular references). Use L<is_shared()|"is_shared VARIABLE">, instead:

```
use threads;
use threads::shared;
use Scalar::Util qw(refaddr);

# If ref is shared, use threads::shared's internal ID.
# Otherwise, use refaddr().
my $addr1 = is_shared($ref1) || refaddr($ref1);
my $addr2 = is_shared($ref2) || refaddr($ref2);

if ($addr1 == $addr2) {
    # The refs are equivalent
}
```

L<each()|perlfunc/"each HASH"> does not work properly on shared references embedded in shared structures. For example:

```
my %foo :shared;
$foo{'bar'} = shared_clone({'a'=>x', 'b'=>y', 'c'=>z'});

while (my ($key, $val) = each(%{$foo{'bar'}})) {
    ...
}
```

Either of the following will work instead:
my $ref = $foo{'bar'};
while (my ($key, $val) = each(%{$ref})) {
    ...
}

foreach my $key (keys(%{$foo{'bar'}})) {
    my $val = $foo{'bar'}{$key};
    ...
}

This module supports dual-valued variables created using C<dualvar()> from
L<Scalar::Util>. However, while C<$!> acts
like a dualvar, it is implemented as a tied SV. To propagate its value, use
the follow construct, if needed:

my $errno :shared = dualvar($!, $!);

View existing bug reports at, and submit any new bugs, problems, patches, etc.
to: L<http://rt.cpan.org/Public/Dist/Display.html?Name=threads-shared>

=head1 SEE ALSO

threads::shared on MetaCPAN:
L<https://metacpan.org/release/threads-shared>

Code repository for CPAN distribution:

L<threads>, L<perlthrtut>

L<http://www.perl.com/pub/a/2002/06/11/threads.html> and

Perl threads mailing list:
L<http://lists.perl.org/list/ithreads.html>

Sample code in the I<examples> directory of this distribution on CPAN.

=head1 AUTHOR

Artur Bergman E<lt>sky AT crucially DOT netE<gt>

Documentation borrowed from the old Thread.pm.

CPAN version produced by Jerry D. Hedden E<lt>jhedden AT cpan DOT orgE<gt>.

=head1 LICENSE
threads::shared is released under the same license as Perl.

=cut

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This program is free software; you can redistribute it and/or modify it under
the same terms as Perl itself.

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/*

ppport.h -- Perl/Pollution/Portability Version 3.19

Automatically created by Devel::PPPort running under perl 5.010000.

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

=pod

=head1 NAME
ppport.h - Perl/Pollution/Portability version 3.19

=head1 SYNOPSIS

perl ppport.h [options] [source files]

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

--help show short help

--version show version

--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

--strip strip all script and doc functionality from ppport.h

--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 5.10.0.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=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. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

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<ppport.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<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.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. Warnings will still be displayed.

=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 --strip

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=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 or warnings 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.
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.

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 or variables 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 or variables 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 or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

    #define NEED_function
    #define NEED_variable

For a global function or variable (used in multiple source files), use:

    #define NEED_function_GLOBAL
    #define NEED_variable_GLOBAL

Note that you mustn't have more than one global request for the
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<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
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<tr>
<td>sv_catpvf_mg_nocontext()</td>
<td>NEED_sv_catpvf_mg_nocontext</td>
<td>NEED_sv_catpvf_mg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>sv_pvn_force_flags()</td>
<td>NEED_sv_pvn_force_flags</td>
<td>NEED_sv_pvn_force_flags_GLOBAL</td>
</tr>
<tr>
<td>sv_setpvf_mg()</td>
<td>NEED_sv_setpvf_mg</td>
<td>NEED_sv_setpvf_mg_GLOBAL</td>
</tr>
<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>vload_module()</td>
<td>NEED_vload_module</td>
<td>NEED_vload_module_GLOBAL</td>
</tr>
<tr>
<td>vnewSVpf()</td>
<td>NEED_vnewSVpf</td>
<td>NEED_vnewSVpf_GLOBAL</td>
</tr>
<tr>
<td>warner()</td>
<td>NEED_warner</td>
<td>NEED_warner_GLOBAL</td>
</tr>
</tbody>
</table>

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

```c
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C<DPPP_>.

=back

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.

If you want to create patched copies of your files instead, use:

    perl ppport.h --copy=.new

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;

# Disable broken TRIE-optimization
BEGIN { eval \$^RE_TRIE_MAXBUF = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.19;

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

my($ppport) = $0 =~ /\([\w.]+)\$/;
my $LF = '(?:\r\n|\[\r\n\])';  # line feed
my $HS = '[ \t]';              # horizontal whitespace

# Never use C comments in this file!
my $ccs = '/')\*'/;
my $cce = '\*/\'/;'             # line feed
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
    require Getopt::Long;
    Getopt::Long::GetOptions(%opt, qw(
        help quiet diag! filter! hints! changes! cplusplus strip version
    ));
}
if ($@ and grep /^-/, @ARGV) {
  usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
  die "Getopt::Long not found. Please don't use any options.
"
}

if ($opt{version}) {
  print "This is $0 $VERSION.
";
  exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

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

my %API = map { /^\w+\|([^|]*)(\|[^|]*)\|([^|]*)\|([^|]*)$/
  ? ( $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(
AvFILLp|5.004050||p
AvFILL||
CLASS||n
CPERLScope|5.005000||p
CX_CURPAD_SAVE||
CX_CURPAD_SV||
CopFILEAV|5.006000||p
CopFILEGV_set|5.006000||p
CopFILE GV 5.006000
CopFILE SV 5.006000
CopFILE_set 5.006000
CopFILE 5.006000
CopSTASH PV_set 5.006000
CopSTASH PV 5.006000
CopSTASH eq 5.006000
CopSTASH_set 5.006000
CopSTASH 5.006000
CopyD 5.009002
Copy
CvPADLIST
CvSTASH
CvWEAKOUTSIDE
DEFSV_set 5.011000
DEFSV 5.004050
END_EXTERN_C 5.005000
ENTER
ERRSV 5.004050
EXTEND
EXTERN_C 5.005000
F0convert
FREETMPS
GIMME_V 5.004000
GIMME
GROK_NUMERIC_RADIX 5.007002
G_ARRAY
G_DISCARD
G_EVAL
G_METHOD 5.006001
G_NOARGS
G_SCALAR
G_VOID 5.004000
GetVars
GvSVn 5.009003
GvSV
Gv_AMupdate
HEf_SVKEY 5.004000
HeHASH 5.004000
HeKEY 5.004000
HeKLEN 5.004000
HePV 5.004000
HeSVKEY_force 5.004000
HeSVKEY_set 5.004000
HeSVKEY 5.004000
HeUTF8 5.011000
HeVAL 5.004000
HvNAMELEN_get 5.009003
HvNAME_get
HvNAME
INT2PTR
IN_LOCALE_COMPILETIME
IN_LOCALE_RUNTIME
IN_LOCALE
IN_PERL_COMPILETIME
IS_NUMBER_GREATER_THAN_UV_MAX
IS_NUMBER_INFINITY
IS_NUMBER_IN_UV
IS_NUMBER_NAN
IS_NUMBER_NEG
IS_NUMBER_NOT_INT
IVSIZE
IVTYPE
IVdf
LEAVE
LVRET
MARK
MULTICALL
MY_CXT_CLONE
MY_CXT_INIT
MY_CXT
MoveD
Move
NOOP
NUM2PTR
NVTYPE
NVef
NVrf
NVgf
Newxc
Newxz
Newx
Nullav
Nullch
Nullcv
Nullhv
Nullsv
ORIGMARK
PAD_BASE_SV
PAD_CLONE_VARS
PAD_COMPNAME_FLAGS
PAD_COMPNAME_GEN_set
PAD_COMPNAME_GEN
PAD_COMPNAME_OURSTASH
PAD_COMPNAME_PV
PAD_COMPNAME_TYPE
PERL_UQUAD_MAX|5.004000||p
PERL_UQUAD_MIN|5.004000||p
PERL_USE_GCC_BRACE_GROUPS|5.009004||p
PERL_USHORT_MAX|5.004000||p
PERL_USHORT_MIN|5.004000||p
PERL_VERSION|5.006000||p
PL_DBsignal|5.005000||p
PL_DBsingle|||pn
PL_DBsub|||pn
PL_DBtrace|||pn
PL_Sv|5.005000||p
PL_bufend|5.011000||p
PL_bufptr|5.011000||p
PL_compiling|5.004050||p
PL_copline|5.011000||p
PL_curcop|5.004050||p
PL_curstash|5.004050||p
PL_debstash|5.004050||p
PL_defgv|5.004050||p
PL_diehook|5.004050||p
PL_dirty|5.004050||p
PL_dowarn|||pn
PL_errgv|5.004050||p
PL_error_count|5.011000||p
PL_expect|5.011000||p
PL_hexdigit|5.005000||p
PL_hints|5.005000||p
PL_in_my_stash|5.011000||p
PL_in_my|5.011000||p
PL_last_in gv|||n
PL_laststatval|5.005000||p
PL_lex_state|5.011000||p
PL_lex_stuff|5.011000||p
PL_linestr|5.011000||p
PL_modglobal|5.005000||n
PL_nal|5.004050||pn
PL_no_modify|5.006000||p
PL_ofsgv|||n
PL_parser|5.009005||p
PL_perl_destruct_level|5.004050||p
PL_perldb|5.004050||p
PL_ppaddr|5.006000||p
PL_rsfp_filters|5.004050||p
PL_rsfp|5.004050||p
PL_rs|||n
PL_signals|5.008001||p
PL_stack_base|5.004050||p
PL_stack_sp|5.004050||p

Open Source Used In Connected-Pharma 1.5-UI & ServiceLayer 2303
PerlIO_setlinebuf
PerlIO_stderr
PerlIO_stdin
PerlIO_stdout
PerlIO_tell
PerlIO_unread
PerlIO_write
Perl_signbit
PoisonFree
PoisonNew
PoisonWith
Poison
RETCAL
Renewc
Renew
SAVECLEARSV
SAVECOMPPAD
SAVEPADSV
SAVETMPS
SAVE_DEFSV
SPAGAIN
SP
START_EXTERN_C
START_MY_CXT
STMT_END
STMT_START
STR_WITH_LEN
ST
SV_CONST_RETURN
SV_COW_DROP_PV
SV_COW_SHARED_HASH_KEYS
SV_GMAGIC
SV_HAS_TRAILING_NUL
SV_IMMEDIATE_UNREF
SV_MUTABLE_RETURN
SV_NOSTEAL
SV_SMAGIC
SV_UTF8_NO_ENCODING
SVfARG
SVf_UTF8
SVf
SVt_IV
SVt_NV
SVt_PVAV
SVt_PVCV
SVt_PVHV
SVt_PVMG
SVt_PV
Safefree
Slab_Alloc
Slab_Free
Slab_to_rw
StructCopy
SvCUR_set
SvCUR
SvEND
SvGAMAGIC[5.006001]
SvGETMAGIC[5.004050]
SvGROW
SvIOK_UV[5.006000]
SvIOK_notUV[5.006000]
SvIOK_off
SvIOK_only_UV[5.006000]
SvIOK_only
SvIOK_on
SvIOKP
SvIOK
SvIVX
SvIV
SvIV_nomg[5.009001]
SvIV_set
SvIVx
SvIV
SvIsCOW_shared_hash[5.008003]
SvIsCOW[5.008003]
SvLEN_set
SvLEN
SvLOCK[5.007003]
SvMAGIC_set[5.009003]
SvNIOK_off
SvNIOKP
SvNIOK
SvNOK_off
SvNOK_only
SvNOK_on
SvNOKP
SvNOK
SvNVX
SvNV_set
SvNVx
SvNV
SvOK
SvOOK_offset[5.011000]
SvOOK
SvPOK_off
SvPOK_only_UTF8[5.006000]
SvPOK_only

Open Source Used In Connected-Pharma 1.5-UI & ServiceLayer  2306
cando||
cast_i32||5.006000|
cast_iv||5.006000|
cast_ulong||5.006000|
cast_uv||5.006000|
check_type_and_open|||
check_uni|||
checkcomma|||
checkposixcc|||
ckWARN||5.006000||p
ck_anoncode|||
ck_bitop|||
ck_concat|||
ck_defined|||
ck_delete|||
ck_die|||
ck_each|||
ck_eof|||
ck_eval|||
ck_exec|||
ck_exists|||
ck_exit|||
ck_ftst|||
ck_fun|||
ck_glob|||
ck_grep|||
ck_index|||
ck_join|||
ck_frun|||
ck_listiob|||
ck_match|||
ck_method|||
ck_null|||
ck_open|||
ck_readline|||
ck_repeat|||
ck_require|||
ck_return|||
ck_rfun|||
ck_rvconst|||
ck_sassign|||
ck_select|||
ck_shift|||
ck_sort|||
ck_spair|||
ck_split|||
ck_subr|||
ck_substr|||
ck_svconst||
ck_trunc||
ck_unpack||
ckwarn_d||5.009003|
ckwarn||5.009003|
c1_and||n
cl_anything||n
c1_init_zero||n
c1_init||n
c1_is_anything||n
c1_or||n
clear_placeholders||
closest_cop||
convert||
cop_free||
cr_textfilter||
create_eval_scope||
croach_nocontext||vn
croach_xs_usage||5.011000|
croach||v
csighandler||5.009003|a
curmad||
custom_op_desc||5.007003|
custom_op_name||5.007003|
cv_ckproto_len||
cv_clone||
cv_const_sv||5.004000|
cv_dump||
cv_undef||
cx_dump||5.005000|
cx_dup||
cxinc||
dAXMARK|5.009003||p
donax|5.007002||p
dITEMS|5.007002||p
dMARK||
dMULTICALL||5.009003|
dMY_CXT_SV|5.007003||p
dMY_CXT|5.007003||p
dNOOP|5.006000||p
dORIGMARK||
dSP||
dTHR|5.004050||p
dTHXR|5.011000||p
dTHXa|5.006000||p
dTHXoa|5.006000||p
dTHX|5.006000||p
dUNDERBAR|5.009002||p
do_magic_dump||5.006000|
do_msgsrv||
do_msgsnd||
do_oddball||
do_op_dump||5.006000|
do_op_xmldump||
do_open9||5.006000|
do_opens||5.007001|
do_open||5.004000|
do_pmop_dump||5.006000|
do_pmop_xmldump||
do_print||
do_readline||
do_seek||
do_semop||
do_shmio||
do_smartmatch||
do_spawn_nowait||
do_spawn||
do_sprintf||
do_sv_dump||5.006000|
do_sysseek||
do_tell||
do_trans_complex_utf8||
do_trans_complex||
do_trans_count_utf8||
do_trans_count||
do_trans_simple_utf8||
do_trans_simple||
do_trans||
do_vecget||
do_vecset||
do_vop||
docatch||
dofile||
dofindlabel||
doform||
doing_taint||5.008001\n
dooneliner||
doopen_pm||
doparseform||
dopoptoeval||
dopoptogiven||
dopoptolabel||
dopoptoloop||
dopoptosub_at||
dopoptowhen||
force_version
force_word
forget_pmop
form_nocontext
form
fp_dun
fprintf_nocontext
free_global_struct
free_tied_hv_pool
free_tmps
gen_constant_list
get_arena
get_aux_mg
get_av
get_context
get_cvn_flags
get_cv
get_db_sub
get_debug_opts
get_hash_seed
get_hv
get_isa_hash
get_mstats
get_no_modify
get_num
get_op_descs
get_op_names
get_opargs
get_ppaddr
get_re_arg
get_sv
get_vtbl
getcwd_sv
g.getenv_len
glob_2number
glob_assign_glob
glob_assign_ref
gp_dup
gp_free
gp_ref
grok_bin
grok_hex
grok_number
grok_numeric_radix
grok_oct
group_end
gv_AVadd
gv_HVadd
hv_delete
hv_eiter_p[5.009003]
hv_eiter_set[5.009003]
hv_exists_ent[5.004000]
hv_exists
hv_fetch_ent[5.004000]
hv_fetchs[5.009003]|p
hv_fetch
hv_free_ent[5.004000]
hv_iterinit
hv_iterkeysv[5.004000]
hv_iterkey
hv_iternext_flags[5.008000]
hv_iternextsv
hv_iternext
hv_iterval
hv_kill_backrefs
hv_ksplit[5.004000]
hv_magic_check|n
hv_magic
hv_name_set[5.009003]
hv_notallowed
hv_placeholders_get[5.009003]
hv_placeholders_p[5.009003]
hv_placeholders_set[5.009003]
hv_riter_p[5.009003]
hv_riter_set[5.009003]
hv_scalar[5.009001]
hv_store_ent[5.004000]
hv_store_flags[5.008000]
hv_stores[5.009004]|p
hv_store
hv_undef
ibcmp_locale[5.004000]
ibcmp_utf8[5.007003]
ibcmp
incline
incpush_if_exists
incpush_use_sep
incpush
ingroup
init_argv_symbols
init_debugger
init_global_struct
init_i18n10n[5.006000]
init_i18n14n[5.006000]
init_ids
init_interp
init_main_stash
init_perllib
init_postdump_symbols
init_predump_symbols
init_stacks
init_tm
intro_my
intuit_method
intuit_more
invert
io_close
isALNUM
isALNUMC
isASCII
isBLANK
isCNTRL
isDIGIT
isGRAPH
isGV_with_GP
isLOWER
isPRINT
isPSXSPC
isPUNCT
isSPACE
isUPPER
isXDIGIT
is_an_int
is_gv_magical_sv
is_handle_constructor
is_list_assignment
is_Lvalue_sub
is_uni_alnum
is_uni_alnumc
is_uni_ascii
is_uni_cntrl
is_uni_digit
is_uni_graph
is_uni_idfirst
load_module|5.006000| pv
localize||
looks_like_bool||
looks_like_number||
lop||
mPUSHi|5.009002| p
mPUSHn|5.009002| p
mPUSHp|5.009002| p
mPUSHs|5.011000| p
mPUSHu|5.009002| p
mXPUSHi|5.009002| p
mXPUSHn|5.009002| p
mXPUSHp|5.009002| p
mXPUSHs|5.011000| p
mXPUSHu|5.009002| p
mad_free||
madlex||
madparse||
magic_clear_all_env||
magic_clearenv||
magic_clearhint||
magic_clearisa||
magic_clearpack||
magic_clearsig||
magic_dump|5.006000|
magic_existspack||
magic_freearylen_p||
magic_freeovrld||
magic_getarylen||
magic_getdefelem||
magic_getkeys||
magic_getpack||
magic_getpos||
magic_getsig||
magic_getsubstr||
magic_gettaint||
magic_getvar||
magic_getvec||
magic_get\||
magic_killbackrefs||
magic_len||
magic_methcall||
magic_methpack||
magic_nextpack||
magic_regdata_cnt||
magic_regdatum_get||
magic_regdatum_set||
magic_scalarpack||
mg_localize
mg_magical
mg_set
mg_size[5.005000]
mini_mktime[5.007002]
missingterm
mode_from_discipline
modkids
mod
more_bodies
more_sv
moreswitches
mro_get_from_name[5.011000]
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mro_get_linear_isa[5.009005]
mro_get_private_data[5.011000]
mro_isa_changed_in
mro_meta_dup
mro_meta_init
mro_method_changed_in[5.009005]
mro_register[5.011000]
mro_set_mro[5.011000]
mro_set_private_data[5.011000]
mul128
mulexp10
my_atof2[5.007002]
my_atof[5.006000]
my_attrs
my_bcopy
my_betoh16
my_betoh32
my_betoh64
my_betoh
my_betohi
my_betohl
my_betohs
my_bzero
my_chsize
my_clearenv
my_cxt_index
my_cxt_init
my_dirfd[5.009005]
my_exit_jump
my_exit
my_failure_exit[5.004000]
my_fflush_all[5.006000]
my_fork[5.007003]
my_htobe16
my_htobe32
op_xml_dump
open_script
pMY_CXT
pMY_CXT
pTHX
pTHX
pack_WARN
pack_cat
pack_rec
package
pack_list
pad_add_anon
pad_add_name
pad_alloc
pad_block_start
pad_check_dup
pad_compname_type
pad_findlex
pad_findmy
pad_fixup_inner_anon
pad_free
pad_leavemy
pad_new
pad_peg
pad_push
pad_reset
pad_setsv
pad_sv
pad_swipe
pad_tidy
pad.Undef
parse_body
parse_unicode_opts
parser_dup
parser_free
path_is_absolute
peep
pending_Slabs_to_ro
perl_alloc
perl_alloc
perl_alloc
perl_clone
perl_clone
perl_construct
perl_destruct
perl_free
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perl_run
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pmflag
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pmop_xmlmdump
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pv_uni_display[5.007003]
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qsortsvu
re_compile[5.009005]
re_croak2
re_dup_guts
re_intuit_start[5.009005]
re_intuit_string[5.006000]
readpipe_override
realloc[5.007002]
reentrant_free
reentrant_init
reentrant_retry
ref_array_or_hash
refcounted_he_chain_2hv
refcounted_he_fetch
refcounted_he_free
refcounted_he_new_common
refcounted_he_new
regtail_study|||regtail|||regtry|||reguni|||regwhite|||nreg|||repeatcpy|||report_evil_fh|||report_uninit|||require_pv|||require_tie_mod|||restore_magic|||rinstr|||rsignal_restore|||rsignal_save|||rsignal_state|||rsignal|||run_body|||run_user_filter|||runops_debug|||runops_standard|||rvpv_dup|||rxres_free|||rxres_restore|||rxres_save|||safesysalloc|||safesysfree|||safesysmalloc|||safesysrealloc|||same_dirent|||save_116|||save_132|||save_18|||save_adelete|||save_aelem|||save_alloc|||save_aptr|||save_ary|||save_bool|||save_clearsv|||save_delete|||save_destructor_x|||save_destructor|||save_freeop|||save_freepv|||save_freesv|||save_generic_pvref|||save_generic_svref||
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strGT||
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sv_2iv_flags||5.009001|
sv_2iv||
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sv_2num||
sv_2nv||
sv_2pv_flags||5.007002||p
sv_2pv_nolen||5.006000||p
sv_2pvbyte_nolen||5.006000||p
sv_2pvbyte||5.006000||p
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sv_2pvutf8||5.006000|
sv_2pv||
sv_2uv_flags||5.009001|
sv_2uv||5.004000||p
sv_add_arena||
sv_add_backref||
sv_backoff||
sv_bless||
sv_cat_decode||5.008001|
sv_catpv_mg||5.004050||p
sv_catpvf_mg_nocontext|||pvn
sv_catpvf_mg_nocontext||5.004000|p
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sv_magicext[5.007003]
sv_magic[]
sv_mortalcopy[]
svncmp[]
sv_newmortal[]
sv_newref[]
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sv_nosharing[5.007003]
sv_nounlocking[]
sv_nv[5.005000]
svpeek[5.005000]
sv_pos_b2u_midway[]
sv_pos_b2u[5.006000]
sv_pos_u2b_cached[]
sv_pos_u2b_forwards[]n
sv_pos_u2b_midway[n
sv_pos_u2b_midway[]n
sv_pos_u2b[5.006000]
sv_pvbyten_force[5.006000]
sv_pvbyten[5.006000]
sv_pvbyte[5.006000]
sv_pvn[5.006000]
sv_pvn_force_flags[5.007002]|p
sv_pvn_force[]
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sv_release_COW[]
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sv_report_used[]
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sv_setiv[]
sv_setnv[5.006000]|p
sv_setnv[]
sv_setpv[5.004050]|p
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sv_setpvf_mg[5.006000][5.004000]|pv
sv_setpvf_nocontext[]|vn
sv_setpvf[5.004000]|v
sv_setpviv[5.008001]
sv_setpviv[]
sv_setpvn[5.004050]|p
sv_setpvn[]
sv_setpvs|5.009004||p
sv_setpv||
sv_setref_iv||
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sv_setref_pvn||
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sv_setref_uv|5.007001|
sv_setsv_cow||
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sv_setsv_mg|5.004050||p
sv_setsv_nomg|5.007002||p
sv_setsv||
sv_setuv_mg|5.004050||p
sv_setuv|5.004000||p
sv_tainted|5.004000|
sv_taint||5.004000|
sv_true|5.005000|
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sv_uni_display|5.007003|
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sv_unref||
sv_untaint|5.004000|
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sv_usepvn_mg|5.004050||p
sv_usepvn||
sv_utf8_decode|5.006000|
sv_utf8_downgrade|5.006000|
sv_utf8_encode|5.006000|
sv_utf8_upgrade_flags_grow|5.011000|
sv_utf8_upgrade_flags|5.007002|
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sv_utf8_upgrade|5.007001|
sv_uv|5.005000||p
sv_vcatpvf_mg|5.006000|5.004000|p
sv_vcatpvfn|5.004000|
sv_vcatpfv|5.006000|5.004000|p
sv_vsetpvf_mg|5.006000|5.004000|p
sv_vsetpvfn|5.004000|
sv_vsetpvf|5.006000|5.004000|p
sv_xmlpeek||
svtype||
swallow_bom||
swap_match_buf||
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sys_init||5.010000||
sys_intern_clear|||
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sys_term||5.010000||
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toLOWER|||
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to_uni_lower||5.007003|
to_uni_title_lc||5.006000|
to_uni_title||5.007003|
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upg_version||5.009005|
usage|||
utf16_to_utf8_reversed||5.006001|
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utf8_hop||5.006000|
xmldump_sub|||
xmldump_vindent|||
yyerror|||
yylex|||
yyparse|||
yywarn|||
);
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, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};

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if ($define) {
    if ($define->[1] =~ /\$/) {
        $define->[1] .= $_;
    } else {
        if (exists $API{$define->[0]} &amp;&amp; $define->[1] !~ /^DPPP_\(/) {
            my @n = find_api($define->[1]);
            push @{$depends{$define->[0]}}, @n if @n
        }
        undef $define;
    }
}

$define = [$1, $2] if m{^\s*#\s*define\s+\($[^)]*\)\s+(.*)};

if ($function) {
    if (/\}) { 
        if (exists $API{$function->[0]}) {
            my @n = find_api($function->[1]);
            push @{$depends{$function->[0]}}, @n if @n
        }
        undef $function;
    } else {
        $function->[1] .= $_;
    }
}
$function = [$1, ""] if m{^DPPP_\((my_\((w+)\))\)};

$replace     = $1 if m{^\s*$rccs\s+Replace:\s+(\d+)\s+$rcce\s*$};
$replace{$2} = $1 if $replace and m{^\s*#\s*define\s+\($[^)]*\)\s+(.*)};
$replace{$2} = $1 if m{^\s*#\s*define\s+\($[^)]*\)\s+(\w+)\s+Replace\s+\$rcce\s*$};
$replace{$1} = $2 if m{^\s*$rccs\s+(\d+)\s+Replace\s+(\w+) with \$rcce\s*$};

if (m{^\s*$rccs\s+(\d+)\s+depends\s+on\s+(\w+)\s+\(\d+)\s+(\w+)\s+$rcce\s*$}) {
    my @deps = map { s/$s+/g; $_ } split ",", $3;
    my $d;
    for $d (map { s/$s+/g; $_ } split ",", $1) {
        push @{$depends{$d}}, @deps;
    }
}

$need{$1} = 1 if m{^#if\s+defined\(NEED_\((w+)\s+\($GLOBAL)\)?\)\}};

for (values %depends) {
    my %s;
$_ = [sort grep !$s{$_}++, @$_];

if (exists $opt{api-info}) {
  my $f;
  my $count = 0;
  my $match = $opt{api-info} =~ m!^/(.*)/$! ? $1 : "^Q$s{opt{api-info}}\E$";
  for $f (sort { lc $a cmp lc $b } keys %API) {
    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(’,’, @{$depends{$f}}), ",\n" if exists $depends{$f};
      print " WARNING:\nWARNING:$f"
      print "$n\n" if exists $warnings{$f};
      $info++;
    }
    print "No portability information available:\n" unless $info;
    $count++;
  }
  $count or print "Found no API matching '$opt{api-info}'.";
  print "\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};
    push @flags, 'warning' if exists $warnings{$f};
    my $flags = @flags ? ['join(’,’, @flags).'] : "
    print "$f$flags\n";
  }
  exit 0;
}
my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;
if (@ARGV) {
my %seen;
for (@ARGV) {
if (-e) {
if (-f) {
push @files, $_ unless $seen{$_}++;
}
else { warn "'$_' is not a file.\n" }
}
else {
my @new = grep { -f } glob $_
or warn "'$_' does not exist.\n";
push @files, grep { !$seen{$_}++ } @new;
}
}
}
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;
}
die "No input files given!\n" unless @files;

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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> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;
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}) {
$file{uses_provided}{$func}++;
if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
$file{uses}{$func}++;
my @deps = rec_depend($func);

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if (@deps) {
$file{uses_deps}{$func} = \@deps;
for (@deps) {
$file{uses}{$_} = 0 unless exists $file{uses}{$_};
}
}
for ($func, @deps) {
$file{needs}{$_} = 'static' if exists $need{$_};
}
}
}
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;

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

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

    my %file = %{$files{$filename}};
    my $func;
    my $c = $file{code};
    my $warnings = 0;

    for $func (sort keys %{$file{uses_Perl}}) {
        if ($API{$func}{varargs}) {
            unless ($API{$func}{nothxarg}) {
                my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\)}}{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_') . $2 }ge);
                if ($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*)\(\s*aTHX_\\)\s*}{'$func$1('}g);
        }
    }

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

    for $func (sort keys %{$file{uses_provided}}) {
        if ($file{uses}{$func}) {
            if (exists $file{uses_deps}{$func}) {
                diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
            }
        } else {
            diag("Uses $func");
        }
    }

    $warnings += hint($func);
}
unless ($opt{quiet}) {
  for $func (sort keys %{$file{uses_todo}})) {
    print "*** WARNING: Uses $func, which may not be portable below perl ",
      format_version($API{$func}{todo}), ", even with \$ppport\n";
    $warnings++;
  }
}

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");
}
else {
diag("File needs $func, adding static request");
}
$pp .= "#define NEED_$func$suffix\n";
}
}
if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
$pp = '';
$file{changes}++;
}
unless ($file{has_inc_ppport}) {
diag("Needs to include '$ppport'");
$pp .= qq(#include "$ppport"\n)
}
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$ppport\E.*?$LF//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/$ccs$ccom[$ix] $cce/;
}
else {

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$c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
}
}

if ($cppc) {
    my $s = $cppc != 1 ? 's' : ';
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : ';
my $warn = $warnings ? " ($warnings warning$s)" : "
info("Analysis completed$warn");

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: $!");
            }
    } else {
        fallback:
    }

    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:
        }
    } else {
    }
info("Suggested changes:");
mydiff(*STDOUT, $filename, $c);
}
}
else {
    my $s = $file{changes} == 1 ? 's' : 's';
    info("$file{changes} potentially required change$s detected");
}
}
else {
    info("Looks good");
}
}

close PATCH if $patch_opened;

exit 0;

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

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 try_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 rec_depend
{
    my($func, $seen) = @_; 
    return () unless exists $depends{$func};
    $seen = ( %{$seen||{}} );
    return () if $seen->{$func}++;
    my %s;
grep !${$_}++, map { ($_, rec_depend($_, $seen)) } @{$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\(3\))\(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\(3\))\(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 "%.%.%.", $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;
my %given_warnings;

sub hint
{
    $opt{quiet} and return;
    my $func = shift;
    my $rv = 0;
    if (exists $warnings{$func} && !$given_warnings{$func}++) {
        my $warn = $warnings{$func};
        $warn =~ s!^!*** !mg;
        print "*** WARNING: $func, $warn;
        $rv++;
    } if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
        my $hint = $hints{$func};
        $hint =~ s/^/   /mg;
        print "   --- hint for $func ---
        "$hint;
}
$rv;
}
sub usage
{
my($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
See perldoc $0 for details.
ENDUSAGE
exit 2;
}
sub strip
{
my $self = do { local(@ARGV,$/)=($0); <> };
my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^=\w+/ms;
$copy =~ s/^(?=\S+)/ /gms;
$self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
$self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if (\@ARGV && \$ARGV[0] eq '--unstrip') {
eval { require Devel::PPPort };
\$@ and die "Cannot require Devel::PPPort, please install.\\n";
if (eval \$Devel::PPPort::VERSION < $VERSION) {
die "$0 was originally generated with Devel::PPPort $VERSION.\\n"
. "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\\n"
. "Please install a newer version, or --unstrip will not work.\\n";
}
Devel::PPPort::WriteFile(\$0);
exit 0;
}
print <<END;
Sorry, but this is a stripped version of \$0.
To be able to use its original script and doc functionality,
please try to regenerate this file using:
\$^X \$0 --unstrip

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END
/ms;
my($pl, $c) = $self =~ /.*__DATA__.*
    / (?::\[^*]*\*+(?:[^\cs\s]\[^*]*\*+) / | /[\^u\n]*)
| ( "[^\"]*\([^"\"]*\)\*+
  | [^\"]*\(\[^\"]*\)\*+)
| (\$HS+) \{ defined $2 ? '?' : ($1 || '') \} gsex;
$c =~ s!\s+$!!mg;
$c =~ s!^$LF!!mg;
$c =~ s!^\s*#!#!mg;
$c =~ s!^\s+!!mg;
open OUT, ">$0" or die "cannot strip $0: $!";
print OUT "$pl$c"

exit 0;
}

__DATA__
/*

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548094_1591901909.08/0/perl-threads-shared-1.58-2.el8.src.rpm-cosi-
expand-archive-r04CR9lQ/threads-shared-1.58/ppport.h
No license file was found, but licenses were detected in source scan.

/*    shared.xs
 *     Copyright (c) 2001-2002, 2006 Larry Wall
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 *     License or the Artistic License, as specified in the README file.
 *     "Hand any two wizards a piece of rope and they would instinctively pull in
 *     opposite directions."
 *     --Sourcery
 *     Contributed by Artur Bergman <sky AT crucially DOT net>
 *     Pulled in the (an)other direction by Nick Ing-Simmons
 *     <nick AT ing-simmons DOT net>
 *     CPAN version produced by Jerry D. Hedden <jdhedden AT cpan DOT org>
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548094_1591901909.08/0/perl-threads-shared-1.58-2.el8.src.rpm-cosi-
1.240 wso2-carbon-event-processor-manager-commons 5.1.42

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1.241 jackson-module-jaxb-annotations 2.9.6

1.242 cxf-rt-bindings-soap 2.7.16

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1.243 jetty 7.6.13.v20130916
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Version: GnuPG v1.4.10 (GNU/Linux)

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Version: GnuPG v1.4.1 (Darwin)

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iD8DBQFEEaStXR99WPTAwLARAgjsNAJ4jBB6wCEq ucFljGge7yrAMSrFv/gCgoMC+5hdry6ZjXRcU hQEyNz2F/T4=
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=HmqH
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1.251 jaxb-api 2.2.12

1.252 wso2-carbon-identity-user-profile-ui

5.12.153

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B. HISTORY OF THE SOFTWARE

Jython was created in late 1997 by Jim Hugunin. Jim was also the primary developer while he was at CNRI. In February 1999 Barry Warsaw took over as primary developer and released JPython version 1.1.

In October 2000 Barry helped move the software to SourceForge where it was renamed to Jython. Jython 2.0 and 2.1 were developed under the Jython specific license below.

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1.277 perl-pathtools 3.74-1.el8

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=pod

=head1 AUTHOR

o.flebbe@gmx.de

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=head1 SEE ALSO

See L<File::Spec> and L<File::Spec::Unix>. This package overrides the implementation of these methods, not the semantics.

=cut
abstract: 'Tools for working with directory and file names'

author:
- 'Perl 5 Porters'

buildrequires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl

meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'

name: PathTools

no_index:
directory:
  - t
  - inc
requires:
  Carp: '0'
  File::Basename: '0'
  Scalar::Util: '0'
  Test::More: '0.88'

resources:
  bugtracker: https://rt.perl.org/rt3/
  homepage: http://dev.perl.org/
  repository: git://perl5.git.perl.org/perl.git
  version: '3.74'

x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

---

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=head1 SEE ALSO

L<File::Spec>

=cut

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

=head1 NAME

File::Spec - portably perform operations on file names

=head1 SYNOPSIS

use File::Spec;

$x=File::Spec->catfile('a', 'b', 'c');

which returns 'a/b/c' under Unix. Or:

use File::Spec::Functions;

$x = catfile('a', 'b', 'c');

=head1 DESCRIPTION

This module is designed to support operations commonly performed on file specifications (usually called "file names", but not to be confused with the contents of a file, or Perl's file handles), such as concatenating several directory and file names into a single path, or determining whether a path is rooted. It is based on code directly taken from MakeMaker 5.17, code written by Andreas KE<ouml>nig, Andy Dougherty, Charles Bailey, Ilya Zakharevich, Paul Schinder, and others.

Since these functions are different for most operating systems, each set of OS specific routines is available in a separate module, including:

File::Spec::Unix
File::Spec::Mac
File::Spec::OS2
The module appropriate for the current OS is automatically loaded by File::Spec. Since some modules (like VMS) make use of facilities available only under that OS, it may not be possible to load all modules under all operating systems.

Since File::Spec is object oriented, subroutines should not be called directly, as in:

File::Spec::catfile('a','b');

but rather as class methods:

File::Spec->catfile('a','b');

For simple uses, L<File::Spec::Functions> provides convenient functional forms of these methods.

=head1 METHODS

=over 2

=item canonpath

X<canonpath>

No physical check on the filesystem, but a logical cleanup of a path.

$canonpath = File::Spec-&gt;canonpath( $path ) ;

Note that this does *not* collapse F<x../y> sections into F<y>. This is by design. If F</foo> on your system is a symlink to F</bar/baz>, then F</foo/../quux> is actually F</bar/quux>, not F</quux> as a naive F<../>-removal would give you. If you want to do this kind of processing, you probably want C<Cwd>'s C<realpath()> function to actually traverse the filesystem cleaning up paths like this.

=item catdir

X<catdir>

Concatenate two or more directory names to form a complete path ending with a directory. But remove the trailing slash from the resulting string, because it doesn't look good, isn't necessary and confuses OS/2. Of course, if this is the root directory, don't cut off the trailing slash :-)}
$path = File::Spec->catdir( @directories );

=item catfile
X<catfile>

Concatenate one or more directory names and a filename to form a complete path ending with a filename

$path = File::Spec->catfile( @directories, $filename );

=item curdir
X<curdir>

Returns a string representation of the current directory.

$curdir = File::Spec->curdir();

=item devnull
X<devnull>

Returns a string representation of the null device.

$devnull = File::Spec->devnull();

=item rootdir
X<rootdir>

Returns a string representation of the root directory.

$rootdir = File::Spec->rootdir();

=item tmpdir
X<tmpdir>

Returns a string representation of the first writable directory from a list of possible temporary directories. Returns the current directory if no writable temporary directories are found. The list of directories checked depends on the platform; e.g. File::Spec::Unix checks C<$ENV{TMPDIR}> (unless taint is on) and F</tmp>.

$tmpdir = File::Spec->tmpdir();

=item updrid
X<updrid>

Returns a string representation of the parent directory.

$updir = File::Spec->updir();
Given a list of files in a directory (such as from \texttt{readdir()})
strip out \texttt{.`} and \texttt{..`}.

\textbf{B<SECURITY NOTE:>} This does NOT filter paths containing \texttt{..`}, like
\texttt{../../../../etc/passwd}, only literal matches to \texttt{.`} and \texttt{..`}.

\begin{verbatim}
@paths = File::Spec->no_upwards( readdir $dirhandle );
\end{verbatim}

\textbf{ITEM: case\_tolerant}

Returns a true or false value indicating, respectively, that alphabetic
case is not or is significant when comparing file specifications.
Cygwin and Win32 accept an optional drive argument.

\begin{verbatim}
$case\_tolerant = File::Spec->case\_tolerant();
\end{verbatim}

\textbf{ITEM: file\_name\_is\_absolute}

Takes as its argument a path, and returns true if it is an absolute path.

\begin{verbatim}
$absolute = File::Spec->file\_name\_is\_absolute( $path );
\end{verbatim}

This does not consult the local filesystem on Unix, Win32, OS/2, or
Mac OS (Classic). It does consult the working environment for VMS
(see \texttt{L<File::Spec::VMS/file\_name\_is\_absolute>}).

\textbf{ITEM: path}

\begin{verbatim}
X<path>
\end{verbatim}

Takes no argument. Returns the environment variable \texttt{PATH} (or the local
platform's equivalent) as a list.

\begin{verbatim}
@PATH = File::Spec->path();
\end{verbatim}

\textbf{ITEM: join}

\begin{verbatim}
X<join, path>
\end{verbatim}

join is the same as \texttt{catfile}.

\textbf{ITEM: splitpath}

\begin{verbatim}
X<splitpath> X<split, path>
\end{verbatim}

Splits a path into volume, directory, and filename portions. On systems
with no concept of volume, returns " for volume.
($volume,$directories,$file) = File::Spec->splitpath( $path );
($volume,$directories,$file) = File::Spec->splitpath( $path, $no_file );

For systems with no syntax differentiating filenames from directories, assumes that the last file is a path unless C<$no_file> is true or a trailing separator or F</.> or F</..> is present. On Unix, this means that C<$no_file> true makes this return ( "", $path, "" ).

The directory portion may or may not be returned with a trailing '/'.

The results can be passed to L</catpath()> to get back a path equivalent to (usually identical to) the original path.

=item splitdir
X<splitdir> X<split, dir>

The opposite of L</catdir>.

    @dirs = File::Spec->splitdir( $directories );

C<$directories> must be only the directory portion of the path on systems that have the concept of a volume or that have path syntax that differentiates files from directories.

Unlike just splitting the directories on the separator, empty directory names (C<"">) can be returned, because these are significant on some OSes.

=item catpath()

Takes volume, directory and file portions and returns an entire path. Under Unix, C<$volume> is ignored, and directory and file are concatenated. A '/' is inserted if need be. On other OSes, C<$volume> is significant.

    $full_path = File::Spec->catpath( $volume, $directory, $file );

=item abs2rel
X<abs2rel> X<absolute, path> X<relative, path>

Takes a destination path and an optional base path returns a relative path from the base path to the destination path:

    $rel_path = File::Spec->abs2rel( $path ) ;
    $rel_path = File::Spec->abs2rel( $path, $base ) ;

If C<$base> is not present or "", then L<Cwd::cwd()> is used. If C<$base> is
relative, then it is converted to absolute form using
L</rel2abs()>. This means that it is taken to be relative to
L<Cwd::cwd()>.

On systems with the concept of volume, if C<$path> and C<$base> appear to be
on two different volumes, we will not attempt to resolve the two
paths, and we will instead simply return C<$path>. Note that previous
versions of this module ignored the volume of C<$base>, which resulted in
garbage results part of the time.

On systems that have a grammar that indicates filenames, this ignores the
C<$base> filename as well. Otherwise all path components are assumed to be
directories.

If C<$path> is relative, it is converted to absolute form using L</rel2abs()>.
This means that it is taken to be relative to L<Cwd::cwd()>.

No checks against the filesystem are made. On VMS, there is
interaction with the working environment, as logicals and
macros are expanded.

Based on code written by Shigio Yamaguchi.

=item rel2abs()
X<rel2abs> X<absolute, path> X<relative, path>

Converts a relative path to an absolute path.

$abs_path = File::Spec->rel2abs( $path ) ;
$abs_path = File::Spec->rel2abs( $path, $base ) ;

If C<$base> is not present or ", then L<Cwd::cwd()> is used. If C<$base> is relative,
then it is converted to absolute form using L</rel2abs()>.
This means that it is taken to be relative to L<Cwd::cwd()>.

On systems with the concept of volume, if C<$path> and C<$base> appear to be
on two different volumes, we will not attempt to resolve the two
paths, and we will instead simply return C<$path>. Note that previous
versions of this module ignored the volume of C<$base>, which resulted in
garbage results part of the time.

On systems that have a grammar that indicates filenames, this ignores the
C<$base> filename as well. Otherwise all path components are assumed to be
directories.

If C<$path> is absolute, it is cleaned up and returned using L</canonpath>.

No checks against the filesystem are made. On VMS, there is
interaction with the working environment, as logicals and macros are expanded.

Based on code written by Shigio Yamaguchi.

For further information, please see L<File::Spec::Unix>, L<File::Spec::Mac>, L<File::Spec::OS2>, L<File::Spec::Win32>, or L<File::Spec::VMS>.

=head1 SEE ALSO

L<File::Spec::Unix>, L<File::Spec::Mac>, L<File::Spec::OS2>, L<File::Spec::Win32>, L<File::Spec::VMS>, L<File::Spec::Functions>, L<ExtUtils::MakeMaker>

=head1 AUTHOR

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Mac support by Paul Schinder C<< <schinder@pobox.com>>.
Thomas Wegner C<< <wegner_thomas@yahoo.com>>.
abs2rel() and rel2abs() written by Shigio Yamaguchi C<< <shigio@tamacom.com>>.
modified by Barrie Slaymaker C<< <barries@slaysys.com>>.
splitpath(), splitdir(), catpath() and catdir() by Barrie Slaymaker.

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* AL/GPL standard perl license.
*/
/
/*
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*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548107_1591379771.91/0/perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/Cwd.xs
No license file was found, but licenses were detected in source scan.

/*

ppport.h -- Perl/Pollution/Portability Version 3.39

Automatically created by Devel::PPPort running under perl 5.027009.

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

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.39

=head1 SYNOPSIS

perl ppport.h [options] [source files]

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

--help show short help
--version show version
--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
--strip strip all script and doc functionality from ppport.h
--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 5.20.

=head1 OPTIONS
=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=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. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

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<ppport.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<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.
Be quiet. Don't print anything except fatal errors.

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

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

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

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.

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

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 or warnings for it.

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.
Show portability information for API elements matching \texttt{name}. If \texttt{name} is surrounded by slashes, it is interpreted as a regular expression.

**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.

- 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.

- You should avoid using deprecated parts of the API. For example, using global Perl variables without the \texttt{PL} prefix is deprecated. Also, some API functions used to have a \texttt{perl} prefix. Using this form is also deprecated. You can safely use the supported API, as \texttt{ppport.h} will provide wrappers for older Perl versions.

- If you use one of a few functions or variables 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 \texttt{#define}s in your source code before the inclusion of \texttt{ppport.h}.

  These functions or variables will be marked \texttt{explicit} in the list shown by \texttt{--list-provided}.

  Depending on whether you module has a single or multiple files that use such functions or variables, you want either \texttt{static} or global variants.

  For a \texttt{static} function or variable (used only in a single source file), use:
#define NEED_function
#define NEED_variable

For a global function or variable (used in multiple source files), use:

#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL

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

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<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
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<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
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<td>NEED_grok_oct</td>
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<td>NEED_gv_fetchpvn_flags_GLOBAL</td>
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</tr>
<tr>
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<td>NEED_mess_nocontext</td>
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</tr>
<tr>
<td>mess_sv()</td>
<td>NEED_mess_sv</td>
<td>NEED_mess_sv_GLOBAL</td>
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<td>NEED_mg_findext</td>
<td>NEED_mg_findext_GLOBAL</td>
</tr>
<tr>
<td>my_snprintf()</td>
<td>NEED_my_snprintf</td>
<td>NEED_my_snprintf_GLOBAL</td>
</tr>
<tr>
<td>my_sprintf()</td>
<td>NEED_my_sprintf</td>
<td>NEED_my_sprintf_GLOBAL</td>
</tr>
<tr>
<td>my_strlcat()</td>
<td>NEED_my_strlcat</td>
<td>NEED_my_strlcat_GLOBAL</td>
</tr>
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<td>my_strlcpy()</td>
<td>NEED_my_strlcpy</td>
<td>NEED_my_strlcpy_GLOBAL</td>
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<td>NEED_newCONSTSUB</td>
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<td>newRV_noinc()</td>
<td>NEED_newRV_noinc</td>
<td>NEED_newRV_noinc_GLOBAL</td>
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<td>newSV_type()</td>
<td>NEED_newSV_type</td>
<td>NEED_newSV_type_GLOBAL</td>
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<tr>
<td>newSVpvn_flags()</td>
<td>NEED_newSVpvn_flags</td>
<td>NEED_newSVpvn_flags_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_share()</td>
<td>NEED_newSVpvn_share</td>
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<td>pv_display()</td>
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<td>sv_2pv_flags()</td>
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<td>NEED_sv_2pv_flags_GLOBAL</td>
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<td>sv_2pbyte()</td>
<td>NEED_sv_2pbyte</td>
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<td>sv_catpvlf_mg()</td>
<td>NEED_sv_catpvlf_mg</td>
<td>NEED_sv_catpvlf_mg_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvlf_mg_nocontext()</td>
<td>NEED_sv_catpvlf_mg_nocontext</td>
<td>NEED_sv_catpvlf_mg_nocontext_GLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the \texttt{DPPP_NAMESPACE} macro. Just \texttt{#define} the macro before including \texttt{ppport.h}:

\begin{verbatim}
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
\end{verbatim}

The default namespace is \texttt{DPPP_}.

=back

The good thing is that most of the above can be checked by running \texttt{ppport.h} on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether \texttt{ppport.h} is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, \texttt{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.

If you want to create patched copies of your files instead, use:

    perl ppport.h --copy=.new

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 here: L<https://github.com/mhx/Devel-PPPort/issues/>

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

Version 3.x, Copyright (c) 2004-2013, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.39;

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

my($ppport) = $0 =~ /\([\w.]+)\$/;
my $LF = '(?:\r\n|\[\r\n\])';  # line feed
my $HS = "[ \t]";  # horizontal whitespace

# Never use C comments in this file!
my $cs = '/\.';
my $ce = '\.*';
my $rcs = quotemeta $cs;
my $rce = quotemeta $ce;

eval {
  require Getopt::Long;
  Getopt::Long::GetOptions(%opt, qw(
    help quiet diag! filter! hints! changes! cplusplus strip version
    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";
}

if ($opt{version}) {
  print "This is $0 $VERSION.\n";
  exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

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

my %API = map { /^([\w]+)|([\^\[\*]+)|([\^\[\w]+)|([\^\w\*]+)$/ ? ($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(
ASCII_TO_NEED||5.007001
AvFILLp|5.004050|p
AvFILL||
BhkDISABLE|5.024000|
BhkENABLE|5.024000|
BhkENTRY_set|5.024000|
BhkENTRY||
BhkFLAGS||
CALL_BLOCK_HOOKS||
CLASS||
CPERLscope|5.005000|p
CX_CURPAD_SAVE||
CX_CURPAD_SV||
C_ARRAY_END|5.013002|p
C_ARRAY_LENGTH|5.008001|p
CopFILEAV|5.006000|p
CopFILEGV_set|5.006000|p
CopFILEGV|5.006000|p
CopFILE_set|5.006000|p
CopFILE|5.006000|p
CopSTASHPV_set|5.006000|p
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DEFSV|5.004050|p
DO_UTF8|5.006000|
IS_NUMBER_IN_UV\[5.007002]\p
IS_NUMBER_NAN\[5.007003]\p
IS_NUMBER_NEG\[5.007002]\p
IS_NUMBER_NOT_INT\[5.007002]\p
IVSIZE\[5.006000]\p
IVTYPE\[5.006000]\p
IVdf\[5.006000]\p
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MULTICALL\[5.024000]\nMUTABLE_PTR\[5.010001]\p
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Move\|
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NUM2PTR\[5.006000]\p
NVTYPE\[5.006000]\p
NVef\[5.006001]\p
NVrf\[5.006001]\p
NVgf\[5.006001]\p
Newxc\[5.009003]\p
Newxz\[5.009003]\p
Newx\[5.009003]\p
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Nullch\|
Nullcv\|
Nullhv\|
Nullsv\|
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OpLASTSIB_set\[5.021011]\p
OpMAYBESIB_set\[5.021011]\p
OpMORESIB_set\[5.021011]\p
OpSIBLING\[5.021007]\p
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PAD_CLONE_VARS\|
PAD_COMPNANAGE_FLAGS\|
PAD_COMPNAME_GEN_set
PAD_COMPNAME_GEN
PAD_COMPNAME_OURSTASH
PAD_COMPNAME_PV
PAD_COMPNAME_TYPE
PAD_RESTORE_LOCAL
PAD_SAVE_LOCAL
PAD_SAVE_SETNULLPAD
PAD_SETSV
PAD_SET_CUR_NOSAVE
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PAD_SV
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PERL_ABS
PERL_ARGS_ASSERT_CROAK_XS_USAGE
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PERL_GCC_BRACE_GROUPS_FORBIDDEN
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PERL_INT_MAX
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PERL_MAGIC_arylen
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PERL_MAGIC_isa
PERL_MAGIC_mutex
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PadnameIsSTATE|||
PadnameLEN||5.024000|
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<th>Value</th>
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<td>SvPOK_offset</td>
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<td>SvPOK_only_UTF8</td>
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<td>SvPV_renew</td>
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<td>SvPV</td>
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WARN_INPLACE|5.006000||p
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WARN_OVERFLOW|5.006000||p
WARN_PACK|5.006000||p
WARN_PARENTHESIS|5.006000||p
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WARN_PRECEDENCE|5.006000||p
WARN_PRINTF|5.006000||p
WARN_PROTOTYPE|5.006000||p
WARN_QW|5.006000||p
WARN_RECURSION|5.006000||p
WARN_REDEFINE|5.006000||p
WARN_REGEXP|5.006000||p
WARN_RESERVED|5.006000||p
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XopENTRY_set||5.024000|
XopENTRY||5.024000|
XopFLAGS||5.013007|
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_core_swash_init|||
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_invlistEQ|||
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_make_exactf_invlist|||
_new_invlist_C_array|||
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_pMY_CXT||5.007003||p
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unshare_heck_or_pvn

unshare_heck

unsharepvn

Open Source Used In Connected-Pharma 1.5-UI & ServiceLayer 2762
warn_sv|5.013001||p
warner_nocontext||vn
warner|5.006000|5.004000|pv
warn|||v
was_ivalue_sub||
watch||
whichsig_pvn|5.015004|
whichsig_pv|5.015004|
whichsig_sv|5.015004|
whichsig||
win32_croak_not_implemented||n
with_queued_errors||
wrap_op_checker|5.015008|
write_to_stderr||
xs_boot_epilog||
xs_handshake||vn
xs_version_bootcheck||
yyerror_pvn||
yyerror_pv||
yyerror||
yylex||
yyparse||
yyunlex||
yywarn||
);

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, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);

sub find_api
{
  my $code = shift;
  $code =~ s{
    / (?::{^}*[^*]*+{^*}[^*]*+)* / | /^\r\n)*
  | "[^\n]*"(?::\n[^\n]*")*" 
  | [^\n]*(?::\n[^\n]*")* ||{exprs'}}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n
}
undef $define;
}
}
$define = [$1, $2] if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};
if ($function) {
if (/^}/) {
if (exists $API{$function->[0]}) {
my @n = find_api($function->[1]);
push @{$depends{$function->[0]}}, @n if @n
}
undef $function;
}
else {
$function->[1] .= $_;
}
}
$function = [$1, ''] if m{^DPPP_\(my_(\w+)\)};

Open Source Used In Connected-Pharma 1.5-UI & ServiceLayer 2765


$replace = $1 if m{^\s*$rcce$s+Replace:($d+)/$s+$rcce$s*$};
$replace{$2} = $1 if $replace and m{^\s*$#s*define$s+($w+)(?:=(([^}])*))?s+($w+).*$rcce$s+Replace$s+$rcce$s*$};
$replace{$1} = $2 if m{^\s*$rcce$s+Replace ($w+) with ($w+)+($w+)+($w+)+($w+)+($w+)+($w+).*$rcce$s*$}};

if (m{^\s*$rcce$s+depends$s+on$s+($w+).+$rcce$s*$}) {
  my @deps = map { s/\s+///g; $_ } split /, /, $3;
  my $d;
  for $d (map { s/\s+///g; $_ } split /, /, $1) {
    push @{$depends{$d}}, @deps;
  }
}

$need{$1} = 1 if m{^#if$defined(NEED_\($s+$rcce$s*$));

for (values %depends) {
  my %s;
  $2 = [sort grep !$s{$_}++, @$_];
}

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) {
    next unless $f =~ /$match/;
    print "\n=== $f ===\n\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}) : "5.003.003";
      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: \n", @{$depends{$f}} if exists $depends{$f};
      print "\nWARNING: \n\n", $warnings{$f} if exists $warnings{$f};
      $info++;
    }
    print "\nWARNING: \n\n", $warnings{$f} if exists $warnings{$f};
    $count++;
  }
  print "No portability information available\n" unless $info;
  $count++;
}
$count or print "Found no API matching $opt{'api-info'}\n";
print "\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};
        push @flags, 'warning'  if exists $warnings{$f};
        my $flags = @flags ? ['join(' ', @flags).'] : "
        print "$f$flags\n";
    }
    exit 0;
}

my @files;
my @srcext = qw(.xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;

if (@ARGV) {
    my %seen;
    for (@ARGV) {
        if (-e) {
            if (-f) {
                push @files, $_ unless $seen{$_}++;
            }
            else { warn "'$_' is not a file.\n" }
        }
        else { my @new = grep { -f } glob $_
            or warn "'$_' does not exist.\n";
                push @files, grep { !$seen{$_}++ } @new;
        }
    }
} 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 { /\Q.*\Q/.$1.c$ ? ($1.c => 1, "$1.cc" => 1) : () } @files;
  for (@files) {
    my $out = exists $xsc{$_} || /$ppport/Ei || !/($srcext)/i;
    push @ { $out ? \@out : \@in }, $_;
  }
  if (@ARGV && @out) {
    warning("Skipping the following files (use --nofilter to avoid this):
| @out | Joined by ", @out);
  }
  @files = @in;
}

die "No input files given!\n" unless @files;

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: $!
";
    next;
  }
  info("Scanning $filename ...");
  my $c = do { local $/; <IN> };
  close IN;

  my %file = (orig => $c, changes => 0);

  # Temporarily remove C/XS comments and strings from the code
  my @ccom;
  $c =~ s{
    ( ^$HS*[^\r\n]*$include\b[\^\r\n]+\b(?:Q\Sppport\E]XSUB\h)b[\^\r\n]*
| ^$HS*[^\r\n]*$define\b[\^\r\n]+\b(?:\Q$ppport\E|XSUB\h)[^\r\n]* )
| ( ^\r\n*[^\r\n]* )
| ["[^"]*\b[\r\n]*\b[^\r\n]*\b[\r\n]"
| ["[^"]*\b[\r\n]*\b[^\r\n]*\b[\r\n]"
| /(?:\^\([^\r\n]*\b[^\r\n]*\b[^\r\n]*)+ /[\^\r\n]* /)
| defined $s2 and push @ccom, $2;
  } defined $1 ? $1 : "$ccs$éecom$ccc" }mgsex;
$file{ccom} = @ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /\^\$HS*#\$HS*include\[^\r\n]+\bQ\$ppport\E\b/m;

my $func;

for $func (keys %API) {
    my $match = $func;
    $match .= "$revreplace{$func}" if exists $revreplace{$func};
    if ($c =~ /Ab(?:Perl_)?(?{$match})\b/) {
        $file{uses_replace}[$1]++ if exists $revreplace{$func} & $1 eq $revreplace{$func};
        $file{uses_Perl}[$func]++ if $c =~ /AbPerl_$func\b/;
        if (exists $API{$func}{provided}) {
            $file{uses_provided}[$func]++;
            if (!exists $API{$func}{base} || $API{$func}{base} > $opt{compat-version}) {
                my @deps = rec_depend($func);
                if (@deps) {
                    $file{uses_deps}[$func] = @deps;
                    for (@deps) {
                        $file{uses}[$_] = 0 unless exists $file{uses}[$_];
                    }
                }
                for ($func, @deps) {
                    $file{needs}[$_] = 'static' if exists $need{$_};
                }
            }
        }
    }
    if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{compat-version}) {
        if ($c =~ /$func\b/) {
            $file{uses_todo}{$func}++;
        } else { warning("Possibly wrong #define $1 in $filename") }
    }
}

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

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

    my %file = %{$files{$filename}};
    my $func;
    my $c = $file{code};
    my $warnings = 0;

    for $func (sort keys %{$file{uses_Perl}})) {
        if ($API{$func}{varargs}) {
            unless ($API{$func}{nothxarg}) {
                my $changes = ($c =~ s{^\b(Perl_$func\s*\(\s*?!aTHX_?)(\(|\[\]([^\s])*)\))\s*}{$1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ' . $2 }ge);
                if ($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])*)\))\s*}{$func$1{} }g);
        }
    }
}
for $func (sort keys %{$file{uses_replace}}) { 
    warning("Uses $func instead of $replace{$func}");
    $file{changes} += ($c =~ s/\b$func\b/replace{$func}/g);
}

for $func (sort keys %{$file{uses_provided}}) {
    if ($file{uses}[$func]) {
        if (exists $file{uses_deps}{$func}) {
            diag("Uses $func, which depends on ", join(",", @{$file{uses_deps}{$func}}));
        } else {
            diag("Uses $func");
        }
    } $warnings += hint($func);
}

unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ",
        format_version($API{$func}{todo}), ", even with "'ppport'un";
        $warnings++;
    }
}

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")
;
            } else {
                diag("File needs $func, adding static request")
;
            } $pp .= "#define NEED_$func$suffix\n";
        }
    }
    if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+.*?)^/$$pp/m)) {
        $pp = "",
        $file{changes}++;
    }
    unless ($file{has_inc_ppport}) {
        diag("Needs to include "$ppport"");
        $pp .= qq(#include "$ppport\n"
;
    }
    if ($pp) {
        $file{changes} += ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+.?/\$1$pp/m)
          || ($c =~ s/^(?=$HS*#$HS*include.*XSUB.*?)/$1$pp/m)
          || ($c =~ s/^(?=$HS*#$HS*include.*$)/$1$pp/m)
          || ($c =~ s/\*/$pp);
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, Sc);
    } else {
        fallback:
        info("Suggested changes:");
        mydiff(*STDOUT, $filename, Sc);
    }
} 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 try_use { eval "use @_;": return @$ eq " }
if (!defined $diff and try_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 rec_depend
{
    my($func, $seen) = @_; 
    return () unless exists $depends{$func};
    $seen = {%{$seen||{}}};
    return () if $seen->{${func}++;
    my %s;
    grep !${$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}} } @{$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) = $ver =~ /\d+(\d+)(\d+)\d+$/;

    $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+\d+/;

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

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "invalid version '$ver'
        }
        $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;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
my $warn = $warnings{$func};
$warn =~ s!^!*** !mg;
print "*** WARNING: $func\n", $warn;
$rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($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
See perldoc $0 for details.
ENDUSAGE
exit 2;
}
sub strip
{
my $self = do { local(@ARGV,$/)=($0); <> };
my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^=\w+/ms;
$copy =~ s/^(?=\S+)/ /gms;
$self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
$self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if (\@ARGV && \$ARGV[0] eq '--unstrip') {

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eval { require Devel::PPPort;  
\$@ and die "Cannot require Devel::PPPort, please install."
};
if (eval \$Devel::PPPort::VERSION < \$VERSION) {
    die "$0 was originally generated with Devel::PPPort \$VERSION."
    . "Your Devel::PPPort is only version \$Devel::PPPort::VERSION."
    . "Please install a newer version, or --unstrip will not work."
}
Devel::PPPort::WriteFile('$0');
exit 0;
}
print <<END;
Sorry, but this is a stripped version of $0.
To be able to use its original script and doc functionality,
please try to regenerate this file using:

\$\^X \$0 --unstrip
END
/ms;
my($pl, $c) = $self =~ /(.*__DATA__)(.*)/ms;
$c =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs\*[^*]*\*+)* / | /[^$\n]*
]| ( "[^"\\]*(?:\\.[^"\\]*)*
| '[^'\\]*(?:\\.[^'\\]*)'
| ($HS+) ) { defined $2 ? "'" : ($1 || "") } gsex;
$c =~ s!\s+!!mg;
$c =~ s!\s*#!#!mg;
$c =~ s!\s*!!mg;

open OUT, ">$0" or die "cannot strip $0: $!";
print OUT "$pl$c
";
exit 0;
}
__DATA__
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548107_1591379771.91/0/perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/ppport.h
No license file was found, but licenses were detected in source scan.

=head1 NAME

Open Source Used In Connected-Pharma 1.5-UI & ServiceLayer 2779
File::Spec::Functions - portably perform operations on file names

=head1 SYNOPSIS

use File::Spec::Functions;
$x = catfile('a','b');

=head1 DESCRIPTION

This module exports convenience functions for all of the class methods provided by File::Spec.

For a reference of available functions, please consult L<File::Spec::Unix>, which contains the entire set, and which is inherited by the modules for other platforms. For further information, please see L<File::Spec::Mac>, L<File::Spec::OS2>, L<File::Spec::Win32>, or L<File::Spec::VMS>.

=head2 Exports

The following functions are exported by default.

canonpath
catdir
catfile
curdir
rootdir
updir
no_upwards
file_name_is_absolute
path

The following functions are exported only by request.

devnull
tmpdir
splitpath
splitdir
catpath
abs2rel
rel2abs
case_tolerant

All the functions may be imported using the C<:ALL> tag.

=head1 COPYRIGHT

Copyright (c) 2004 by the Perl 5 Porters. All rights reserved.
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=head1 SEE ALSO

File::Spec, File::Spec::Unix, File::Spec::Mac, File::Spec::OS2,
File::Spec::Win32, File::Spec::VMS, ExtUtils::MakeMaker

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548107_1591379771.91/0/perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-
archive-PySqImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxDVg/PathTools-3.74/lib/File/Spec/Functions.pm
No license file was found, but licenses were detected in source scan.

=back

=head1 AUTHORS

See the authors list in I<File::Spec>. Mac OS support by Paul Schinder <schinder@pobox.com> and Thomas Wegner <wegner_thomas@yahoo.com>.

=head1 COPYRIGHT

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=head1 SEE ALSO

See L<File::Spec> and L<File::Spec::Unix>. This package overrides the implementation of these methods, not the semantics.

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548107_1591379771.91/0/perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-
archive-PySqImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxDVg/PathTools-3.74/lib/File/Spec/Mac.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

File::Spec::OS2 - methods for OS/2 file specs

=head1 SYNOPSIS
require File::Spec::OS2; # Done internally by File::Spec if needed

=head1 DESCRIPTION

See L<File::Spec> and L<File::Spec::Unix>. This package overrides the implementation of these methods, not the semantics.

Amongst the changes made for OS/2 are...

=over 4

=item tmpdir

Modifies the list of places temp directory information is looked for.

 $ENV{TMPDIR}
 $ENV{TEMP}
 $ENV{TMP}
 /tmp
 /

=item splitpath

Volumes can be drive letters or UNC sharenames (\server\share).

=back

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An explanation of VMS file specs can be found at L<http://h71000.www7.hp.com/doc/731FINAL/4506/4506pro_014.html#apps_locating_naming_files>.

=cut

Found in path(s):
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=head2 Note For File::Spec::Win32 Maintainers

Novell NetWare inherits its File::Spec behaviour from File::Spec::Win32.

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=head1 SEE ALSO

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=head1 NAME

Cwd - get pathname of current working directory

=head1 SYNOPSIS

use Cwd;
my $dir = getcwd;

use Cwd 'abs_path';
my $abs_path = abs_path($file);

=head1 DESCRIPTION

This module provides functions for determining the pathname of the current working directory. It is recommended that getcwd (or another *cwd() function) be used in I<all> code to ensure portability.

By default, it exports the functions cwd(), getcwd(), fastcwd(), and fastgetcwd() (and, on Win32, getdcwd()) into the caller's namespace.

=head2 getcwd and friends

Each of these functions are called without arguments and return the absolute path of the current working directory.

=over 4

=item getcwd
my $cwd = getcwd();

Returns the current working directory. On error returns C<undef>, with C<$!> set to indicate the error.

Exposes the POSIX function getcwd(3) or re-implements it if it's not available.

=item cwd

my $cwd = cwd();

The cwd() is the most natural form for the current architecture. For most systems it is identical to `pwd` (but without the trailing line terminator).

=item fastcwd

my $cwd = fastcwd();

A more dangerous version of getcwd(), but potentially faster.

It might conceivably chdir() you out of a directory that it can't chdir() you back into. If fastcwd encounters a problem it will return undef but will probably leave you in a different directory. For a measure of extra security, if everything appears to have worked, the fastcwd() function will check that it leaves you in the same directory that it started in. If it has changed it will C<die> with the message "Unstable directory path, current directory changed unexpectedly". That should never happen.

=item fastgetcwd

my $cwd = fastgetcwd();

The fastgetcwd() function is provided as a synonym for cwd().

=item getdcwd

my $cwd = getdcwd();
my $ cwd = getdcwd('C:');

The getdcwd() function is also provided on Win32 to get the current working directory on the specified drive, since Windows maintains a separate current working directory for each drive. If no drive is specified then the current drive is assumed.
This function simply calls the Microsoft C library _getdcwd() function.

=head2 abs_path and friends

These functions are exported only on request. They each take a single argument and return the absolute pathname for it. If no argument is given they'll use the current working directory.

=item abs_path

    my $abs_path = abs_path($file);

Uses the same algorithm as getcwd(). Symbolic links and relative-path components ("." and ".") are resolved to return the canonical pathname, just like realpath(3). On error returns C<undef>, with C<$!> set to indicate the error.

=item realpath

    my $abs_path = realpath($file);

A synonym for abs_path().

=item fast_abs_path

    my $abs_path = fast_abs_path($file);

A more dangerous, but potentially faster version of abs_path.

=head2 $ENV{PWD}

If you ask to override your chdir() built-in function,

    use Cwd qw(chdir);

then your PWD environment variable will be kept up to date. Note that it will only be kept up to date if all packages which use chdir import it from Cwd.

=head1 NOTES
Since the path separators are different on some operating systems ('/' on Unix, ':' on MacPerl, etc...) we recommend you use the File::Spec modules wherever portability is a concern.

Actually, on Mac OS, the C<getcwd()>, C<fastgetcwd>() and C<fastcwd>() functions are all aliases for the C<cwd>() function, which, on Mac OS, calls `pwd`. Likewise, the C<abs_path()> function is an alias for C<fast_abs_path()>.

=head1 AUTHOR

Originally by the perl5-porters.

Maintained by Ken Williams <KWILLIAMS@cpan.org>

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=head1 SEE ALSO

L<File::chdir>

=cut

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1.278 grubby 8.40-41.el8
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1.280  wso2-carbon-directory-server-manager-stub  5.12.153

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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.
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import org.apache.commons.lang.ArrayUtils;
import org.wso2.carbon.CarbonException;
import org.wso2.carbon.core.util.AdminServicesUtil;
import org.wso2.carbon.user.api.Permission;
import org.wso2.carbon.core.AuthorizationManager;
import org.wso2.carbon.core.UserRealm;
import org.wso2.carbon.core.UserStoreException;
import org.wso2.carbon.core.UserStoreManager;
import org.wso2.carbon.core.common.AbstractUserOperationEventListener;
import org.wso2.carbon.core.listener.UserManagementErrorEventListener;
import org.wso2.carbon.core.listener.UserOperationEventListener;
import org.wso2.carbon.core.util.UserCoreUtil;
import org.wso2.carbon.user.mgt.internal.UserMgtDSComponent;

/**
 * This is the class should be used by Admin service authors to get the Registry
 * and Realms.
 */
public class ManagementPermissionUtil {

    /**
     * Should only be called by the Admin Services.
     */
}
private ManagementPermissionUtil()
{
}

public static void updateRoleUIPermission(String roleName, String[] rawPermissions)
 throws UserAdminException {

  Permission[] permissions = null;
  UserStoreManager userStoreManager = null;
  try {
    String[] optimizedList = UserCoreUtil.optimizePermissions(rawPermissions);
    UserRealm realm = AdminServicesUtil.getUserRealm();
    AuthorizationManager authMan = realm.getAuthorizationManager();
    authMan.clearRoleActionOnAllResources(roleName, UserMgtConstants.EXECUTE_ACTION);
    permissions = new Permission[optimizedList.length];
    for (int i = 0; i < optimizedList.length; i++) {
      authMan.authorizeRole(roleName, optimizedList[i], UserMgtConstants.EXECUTE_ACTION);
      permissions[i] = new Permission(optimizedList[i], UserMgtConstants.EXECUTE_ACTION);
    }
    userStoreManager = realm.getUserStoreManager();
    handlePostUpdatePermissionsOfRole(roleName, permissions, userStoreManager);
  } catch (UserStoreException e) {
    handleOnUpdatePermissionsOfRoleFailure(e.getMessage(), roleName, permissions, userStoreManager);
    // not logging already logged
    throw new UserAdminException(e.getMessage(), e);
  } catch (CarbonException e) {
    handleOnUpdatePermissionsOfRoleFailure(e.getMessage(), roleName, null, null);
    throw new UserAdminException(e.getMessage(), e);
  }
}

public static Permission[] getRoleUIPermissions(String roleName, String[] rawPermissions)
 throws UserAdminException {
  Permission[] permissions;
  if (ArrayUtils.isEmpty(rawPermissions)) {
    return new Permission[0];
  }

  String[] optimizedList = UserCoreUtil.optimizePermissions(rawPermissions);
  permissions = new Permission[optimizedList.length];
  int i = 0;
  for (String path : optimizedList) {
    permissions[i++] = new Permission(path, UserMgtConstants.EXECUTE_ACTION);
  }
}
/**
 * To call relevant event listeners when there is a failure while updating permissions of role.
 *
 * @param errorMessage Relevant error message.
 * @param permissions Permissions updated for the role.
 * @throws UserAdminException User Admin Exception.
 */
public static void handleOnUpdatePermissionsOfRoleFailure(String errorMessage, String roleName, Permission[] permissions, UserStoreManager userStoreManager)
        throws UserAdminException {
    try {
        for (UserManagementErrorEventListener listener : UserMgtDSComponent.getUserManagementErrorEventListeners()) {
            if (listener.isEnable() && !listener.onUpdatePermissionsOfRoleFailure(
                    UserCoreErrorConstants.ErrorMessages.ERROR_CODE_ERROR_WHILE_UPDATING_PERMISSIONS_OF_ROLE.getCode(),
                    String.format(
                            UserCoreErrorConstants.ErrorMessages.ERROR_CODE_ERROR_WHILE_UPDATING_PERMISSIONS_OF_ROLE.getMessage(),
                            errorMessage),
                    roleName, permissions, userStoreManager)) {
                return;
            }
        }
    } catch (UserStoreException ex) {
        throw new UserAdminException(
                "Exception while executing error listeners after a failure while updating permissions of role ",
                + roleName, ex);
    }
}

/**
 * To call the relevant listeners after updating permissions of a role.
 *
 * @param roleName Name of the role.
 * @param permissions Relevant permissions that are updated.
 * @throws UserStoreException User Store Exception that will be thrown by relevant listeners while handling.
 */
public static void handlePostUpdatePermissionsOfRole(String roleName, Permission[] permissions,
        UserStoreManager userStoreManager) throws UserStoreException {
    for (UserOperationEventListener userOperationEventListener : UserMgtDSComponent.getUserOperationEventListeners()) {
        userOperationEventListener.onPostUpdatePermissionsOfRole(roleName, permissions, userStoreManager);
    }
}
if (userOperationEventListener instanceof AbstractUserOperationEventListener
    && (!((AbstractUserOperationEventListener) userOperationEventListener)
        .doPostUpdatePermissionsOfRole(roleName, permissions, userStoreManager)) ) {
    return;
}

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1.290 wso2-carbon-crypto-impl 1.0.1

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1.293 golang-protobuf-extensions 1.0.1

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1.294 abdera 1.0.0.wso2v3

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1.295 jsonpb 1.4.2

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1.297 net-tools 2.10

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1.301 go-systemd 22.0.0

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1.302 jackson-dataformat-yaml 2.8.6

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1.303 wso2-carbon-event-receiver-ui 5.1.42

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1.304 tar 1.30-5.el8

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1.308 apache-log4j 1.2.13

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1.309 wso2-carbon-governance-wsdltool-stub

4.7.27

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1.311 wso2-carbon-user-mgt-ui 5.12.153

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1.312 curl 7.61.1-14.el8

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

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

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

One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html)
licensed code is not allowed to be linked with code licensed under the
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[exception](https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs). This
particular problem was addressed when the [Modified BSD license](https://opensource.org/licenses/BSD-3-Clause) was created, which does not have the announcement clause that collides with GPL.

## libcurl

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

## OpenSSL

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL's licensing is a problem for you, consider using another TLS library.

## GnuTLS

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### c-ares

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

### zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

### MIT Kerberos

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### Heimdal

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(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

## libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

### 1.313 gson 2.8.2

#### 1.313.1 Available under license:

Google Gson

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abstract: 'Perl interface to the MD-5 algorithm'
author:
  - 'Gisle Aas <gisle@activestate.com>'
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.0401, CPAN::Meta::Converter version 2.150001'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: '1.4'
name: Digest-MD5
no_index:
directory:
  - t
  - inc
requires:
  Digest::base: '1.00'
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  perl: '5.006'
resources:
  repository: https://github.com/gisle/digest-md5
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The Digest::MD5 module allows you to use the RSA Data Security Inc. MD5 Message Digest algorithm from within Perl programs. The algorithm takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input. MD5 is described in RFC 1321.

The Digest::MD5 module allows you to use the RSA Data Security Inc. MD5 Message Digest algorithm from within Perl programs. The algorithm takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input. MD5 is described in RFC 1321.


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NAME

Digest::MD5 - Perl interface to the MD5 Algorithm

SYNOPSIS

# Functional style
use Digest::MD5 qw(md5 md5_hex md5_base64);

$digest = md5($data);
$digest = md5_hex($data);
$digest = md5_base64($data);

# OO style
use Digest::MD5;

$ctx = Digest::MD5->new;

$ctx->add($data);
$ctx->addfile($file_handle);
The `Digest::MD5` module allows you to use the RSA Data Security Inc. MD5 Message Digest algorithm from within Perl programs. The algorithm takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.

Note that the MD5 algorithm is not as strong as it used to be. It has since 2005 been easy to generate different messages that produce the same MD5 digest. It still seems hard to generate messages that produce a given digest, but it is probably wise to move to stronger algorithms for applications that depend on the digest to uniquely identify a message.

The `Digest::MD5` module provide a procedural interface for simple use, as well as an object oriented interface that can handle messages of arbitrary length and which can read files directly.

The following functions are provided by the `Digest::MD5` module. None of these functions are exported by default.

```
=over 4

=item md5($data,...)
This function will concatenate all arguments, calculate the MD5 digest of this "message", and return it in binary form. The returned string will be 16 bytes long.

The result of md5("a", "b", "c") will be exactly the same as the result of md5("abc").

=item md5_hex($data,...)
Same as md5(), but will return the digest in hexadecimal form. The length of the returned string will be 32 and it will only contain characters from this set: '0'..'9' and 'a'..'f'.

=item md5_base64($data,...)
Same as md5(), but will return the digest as a base64 encoded string.
```
The object oriented interface to C\texttt{Digest::MD5} is described in this section. After a C\texttt{Digest::MD5} object has been created, you will add data to it and finally ask for the digest in a suitable format. A single object can be used to calculate multiple digests.

The following methods are provided:

\item $md5 = \text{Digest::MD5}\rightarrow\text{new}$

The constructor returns a new C\texttt{Digest::MD5} object which encapsulate the state of the MD5 message-digest algorithm.

If called as an instance method (i.e. $md5\rightarrow\text{new}$) it will just reset the state the object to the state of a newly created object. No new object is created in this case.

\item $md5\rightarrow\text{reset}$

This is just an alias for $md5\rightarrow\text{new}$.

\item $md5\rightarrow\text{clone}$

This a copy of the $md5$ object. It is useful when you do not want to destroy the digests state, but need an intermediate value of the digest, e.g. when calculating digests iteratively on a continuous data stream. Example:

\begin{verbatim}
my $md5 = Digest::MD5\rightarrow\text{new};
while (<>) {
    $md5\rightarrow\text{add}($_);
    print "Line \$.: ", $md5\rightarrow\text{clone}\rightarrow\text{hexdigest}, \"\n\";
}
\end{verbatim}
$md5->add($data,...)

The $data provided as argument are appended to the message we calculate the digest for. The return value is the $md5 object itself.

All these lines will have the same effect on the state of the $md5 object:

```perl
$md5->add("a"); $md5->add("b"); $md5->add("c");
$md5->add("a")->add("b")->add("c");
$md5->add("a", "b", "c");
$md5->add("abc");
```

$md5->addfile($io_handle)

The $io_handle will be read until EOF and its content appended to the message we calculate the digest for. The return value is the $md5 object itself.

The addfile() method will croak() if it fails reading data for some reason. If it croaks it is unpredictable what the state of the $md5 object will be in. The addfile() method might have been able to read the file partially before it failed. It is probably wise to discard or reset the $md5 object if this occurs.

In most cases you want to make sure that the $io_handle is in C<binmode> before you pass it as argument to the addfile() method.

$md5->add_bits($data, $nbins)

$md5->add_bits($bitstring)

Since the MD5 algorithm is byte oriented you might only add bits as multiples of 8, so you probably want to just use add() instead. The add_bits() method is provided for compatibility with other digest implementations. See L<Digest> for description of the arguments that add_bits() take.

$md5->digest

Return the binary digest for the message. The returned string will be 16 bytes long.

Note that the C<digest> operation is effectively a destructive, read-once operation. Once it has been performed, the C<Digest::MD5> object is automatically C<reset> and can be used to calculate another digest value. Call $md5->clone->digest if you want to calculate the digest without resetting the digest state.
=item $md5->hexdigest

Same as $md5->digest, but will return the digest in hexadecimal form. The length of the returned string will be 32 and it will only contain characters from this set: '0'..'9' and 'a'..'f'.

=item $md5->b64digest

Same as $md5->digest, but will return the digest as a base64 encoded string. The length of the returned string will be 22 and it will only contain characters from this set: 'A'..'Z', 'a'..'z', '0'..'9', '+' and '/'.

The base64 encoded string returned is not padded to be a multiple of 4 bytes long. If you want interoperability with other base64 encoded md5 digests you might want to append the string "==" to the result.

=item @ctx = $md5->context

=item $md5->context(@ctx)

Saves or restores the internal state. When called with no arguments, returns a 3-element list: number of blocks processed, a 16-byte internal state buffer, then up to 63 bytes of unprocessed data. When passed those same arguments, restores the state. This is only useful for specialised operations.

=back

=head1 EXAMPLES

The simplest way to use this library is to import the md5_hex() function (or one of its cousins):

```perl
use Digest::MD5 qw(md5_hex);
print "Digest is ", md5_hex("foobaz"), "\n";
```

The above example would print out the message:

Digest is 6df23dc03f9b54cc38a0fc1483df6e21

The same checksum can also be calculated in OO style:

```perl
use Digest::MD5;
```
$md5 = Digest::MD5->new;
$md5->add('foo', 'bar');
$md5->add('baz');
$digest = $md5->hexdigest;

print "Digest is $digest\n";

With OO style, you can break the message arbitrarily. This means that we are no longer limited to have space for the whole message in memory, i.e. we can handle messages of any size.

This is useful when calculating checksum for files:

use Digest::MD5;

my $filename = shift || "/etc/passwd";
open (my $fh, '<', $filename) or die "Can't open '$filename': $!";
binmode($fh);

$md5 = Digest::MD5->new;
while (<$fh>) {
    $md5->add($_);
}
close($fh);
print $md5->b64digest, " $filename\n";

Or we can use the addfile method for more efficient reading of the file:

use Digest::MD5;

my $filename = shift || "/etc/passwd";
open (my $fh, '<', $filename) or die "Can't open '$filename': $!";
binmode ($fh);

print Digest::MD5->new->addfile($fh)->hexdigest, " $filename\n";

Since the MD5 algorithm is only defined for strings of bytes, it can not be used on strings that contains chars with ordinal number above 255 (Unicode strings). The MD5 functions and methods will croak if you try to feed them such input data:

use Digest::MD5 qw(md5_hex);

my $str = "abc\x{300}"
print md5_hex($str), "\n";  # croaks
# Wide character in subroutine entry
What you can do is calculate the MD5 checksum of the UTF-8 representation of such strings. This is achieved by filtering the string through encode_utf8() function:

```perl
use Digest::MD5 qw(md5_hex);
use Encode qw(encode_utf8);

my $str = "abc\x{300}";
print md5_hex(encode_utf8($str)), "\n";
# 8c2d46911f3f5a326455f0ed7a8ed3b3
```

=head1 SEE ALSO
L<Digest>,
L<Digest::MD2>,
L<Digest::SHA>,
L<Digest::HMAC>
L<md5sum(1)>

RFC 1321


The paper "How to Break MD5 and Other Hash Functions" by Xiaoyun Wang and Hongbo Yu.

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=head1 AUTHORS

The original C<MD5> interface was written by Neil Winton (C<N.Winton@axion.bt.co.uk>).

The C<Digest::MD5> module is written by Gisle Aas <gisle@ActiveState.com>.

cut

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Request for Comments: 1321                MIT Laboratory for Computer Science
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                  April 1992

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Acknowledgments

We would like to thank Don Coppersmith, Burt Kaliski, Ralph Merkle, David Chaum, and Noam Nisan for numerous helpful comments and suggestions.

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1. Executive Summary

This document describes the MD5 message-digest algorithm. The algorithm takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input. It is conjectured that it is computationally infeasible to produce two messages having the same message digest, or to produce any message having a given prespecified target message digest. The MD5 algorithm is intended for digital signature applications, where a large file must be "compressed" in a secure manner before being encrypted with a private (secret) key under a public-key cryptosystem such as RSA.

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The MD5 algorithm is designed to be quite fast on 32-bit machines. In addition, the MD5 algorithm does not require any large substitution tables; the algorithm can be coded quite compactly.
The MD5 algorithm is an extension of the MD4 message-digest algorithm [1,2]. MD5 is slightly slower than MD4, but is more "conservative" in design. MD5 was designed because it was felt that MD4 was perhaps being adopted for use more quickly than justified by the existing critical review; because MD4 was designed to be exceptionally fast, it is "at the edge" in terms of risking successful cryptanalytic attack. MD5 backs off a bit, giving up a little in speed for a much greater likelihood of ultimate security. It incorporates some suggestions made by various reviewers, and contains additional optimizations. The MD5 algorithm is being placed in the public domain for review and possible adoption as a standard.

For OSI-based applications, MD5's object identifier is

\[
\text{md5 OBJECT IDENTIFIER ::= } \\
\text{iso(1) member-body(2) US(840) rsadsi(113549) digestAlgorithm(2) 5}
\]

In the X.509 type AlgorithmIdentifier [3], the parameters for MD5 should have type NULL.

2. Terminology and Notation

In this document a "word" is a 32-bit quantity and a "byte" is an eight-bit quantity. A sequence of bits can be interpreted in a natural manner as a sequence of bytes, where each consecutive group of eight bits is interpreted as a byte with the high-order (most significant) bit of each byte listed first. Similarly, a sequence of bytes can be interpreted as a sequence of 32-bit words, where each consecutive group of four bytes is interpreted as a word with the low-order (least significant) byte given first.

Let \( x_i \) denote "\( x \) sub \( i \)". If the subscript is an expression, we surround it in braces, as in \( x_{(i+1)} \). Similarly, we use \(^\text{\textasciicircum}\) for superscripts (exponentiation), so that \( x^{\text{\textasciicircum}i} \) denotes \( x \) to the \( i \)-th power.

Let the symbol "+" denote addition of words (i.e., modulo-\( 2^{32} \) addition). Let \( X <<< s \) denote the 32-bit value obtained by circularly shifting (rotating) \( X \) left by \( s \) bit positions. Let \( \text{not}(X) \) denote the bit-wise complement of \( X \), and let \( X \lor Y \) denote the bit-wise OR of \( X \) and \( Y \). Let \( X \oplus Y \) denote the bit-wise XOR of \( X \) and \( Y \), and let \( X \land Y \) denote the bit-wise AND of \( X \) and \( Y \).
3. MD5 Algorithm Description

We begin by supposing that we have a b-bit message as input, and that we wish to find its message digest. Here b is an arbitrary nonnegative integer; b may be zero, it need not be a multiple of eight, and it may be arbitrarily large. We imagine the bits of the message written down as follows:

\[ m_0 \ m_1 \ldots \ m_{b-1} \]

The following five steps are performed to compute the message digest of the message.

3.1 Step 1. Append Padding Bits

The message is "padded" (extended) so that its length (in bits) is congruent to 448, modulo 512. That is, the message is extended so that it is just 64 bits shy of being a multiple of 512 bits long. Padding is always performed, even if the length of the message is already congruent to 448, modulo 512.

Padding is performed as follows: a single "1" bit is appended to the message, and then "0" bits are appended so that the length in bits of the padded message becomes congruent to 448, modulo 512. In all, at least one bit and at most 512 bits are appended.

3.2 Step 2. Append Length

A 64-bit representation of b (the length of the message before the padding bits were added) is appended to the result of the previous step. In the unlikely event that b is greater than \(2^{64}\), then only the low-order 64 bits of b are used. (These bits are appended as two 32-bit words and appended low-order word first in accordance with the previous conventions.)

At this point the resulting message (after padding with bits and with b) has a length that is an exact multiple of 512 bits. Equivalently, this message has a length that is an exact multiple of 16 (32-bit) words. Let M[0 ... N-1] denote the words of the resulting message, where N is a multiple of 16.

3.3 Step 3. Initialize MD Buffer
A four-word buffer (A,B,C,D) is used to compute the message digest. Here each of A, B, C, D is a 32-bit register. These registers are initialized to the following values in hexadecimal, low-order bytes first):

```
word A: 01 23 45 67
word B: 89 ab cd ef
word C: fe dc ba 98
word D: 76 54 32 10
```

### 3.4 Step 4. Process Message in 16-Word Blocks

We first define four auxiliary functions that each take as input three 32-bit words and produce as output one 32-bit word.

- \( F(X,Y,Z) = XY \lor \neg(X) Z \)
- \( G(X,Y,Z) = XZ \lor Y \neg(Z) \)
- \( H(X,Y,Z) = X \oplus Y \oplus Z \)
- \( I(X,Y,Z) = Y \oplus (X \lor \neg(Z)) \)

In each bit position \( F \) acts as a conditional: if \( X \) then \( Y \) else \( Z \). The function \( F \) could have been defined using \(+\) instead of \( \lor \) since \( XY \) and \( \neg(X)Z \) will never have 1's in the same bit position. It is interesting to note that if the bits of \( X \), \( Y \), and \( Z \) are independent and unbiased, the each bit of \( F(X,Y,Z) \) will be independent and unbiased.

The functions \( G \), \( H \), and \( I \) are similar to the function \( F \), in that they act in "bitwise parallel" to produce their output from the bits of \( X \), \( Y \), and \( Z \), in such a manner that if the corresponding bits of \( X \), \( Y \), and \( Z \) are independent and unbiased, then each bit of \( G(X,Y,Z) \), \( H(X,Y,Z) \), and \( I(X,Y,Z) \) will be independent and unbiased. Note that the function \( H \) is the bit-wise "xor" or "parity" function of its inputs.

This step uses a 64-element table \( T[1 \ldots 64] \) constructed from the sine function. Let \( T[i] \) denote the i-th element of the table, which is equal to the integer part of \( 4294967296 \) times \( \text{abs}(\sin(i)) \), where \( i \) is in radians. The elements of the table are given in the appendix.
Do the following:

/* Process each 16-word block. */
For i = 0 to N/16-1 do

/* Copy block i into X. */
For j = 0 to 15 do
   Set X[j] to M[i*16+j].
end /* of loop on j */

/* Save A as AA, B as BB, C as CC, and D as DD. */
AA = A
BB = B

CC = C
DD = D

/* Round 1. */
/* Let [abcd k s i] denote the operation
   a = b + ((a + F(b,c,d) + X[k] + T[i]) <<< s). */
/* Do the following 16 operations. */
[ABCD  0  7  1]  [DABC  1 12  2]  [CDAB  2 17  3]  [BCDA  3 22  4]
[ABCD  4  7  5]  [DABC  5 12  6]  [CDAB  6 17  7]  [BCDA  7 22  8]
[ABCD  8  7  9]  [DABC  9 12 10]  [CDAB 10 17 11] [BCDA 11 22 12]
[ABCD 12  7 13]  [DABC 13 12 14] [CDAB 14 17 15] [BCDA 15 22 16]

/* Round 2. */
/* Let [abcd k s i] denote the operation
   a = b + ((a + G(b,c,d) + X[k] + T[i]) <<< s). */
/* Do the following 16 operations. */
[ABCD  1  5 17]  [DABC  6  9 18]  [CDAB 11 14 19] [BCDA  0 20 20]
[ABCD  5  5 21]  [DABC 10  9 22]  [CDAB 15 14 23] [BCDA  4 20 24]
[ABCD  9  5 25]  [DABC 14  9 26]  [CDAB  3 14 27] [BCDA  8 20 28]
[ABCD 13  5 29]  [DABC  2  9 30]  [CDAB  7 14 31] [BCDA 12 20 32]

/* Round 3. */
/* Let [abcd k s t] denote the operation
   a = b + ((a + H(b,c,d) + X[k] + T[i]) <<< s). */
/* Do the following 16 operations. */
[ABCD  5  4 33]  [DABC  8 11 34] [CDAB 11 16 35] [BCDA 14 23 36]
[ABCD  1  4 37]  [DABC  4 11 38]  [CDAB  7 16 39] [BCDA 10 23 40]
/* Round 4. */
/* Let [abcd k s t] denote the operation
    a = b + ((a + f(b,c,d) + X[k] + T[i]) <<< s). */
/* Do the following 16 operations. */
/* Then perform the following additions. (That is increment each
    of the four registers by the value it had before this block
    was started.) */
A = A + AA
B = B + BB
C = C + CC
D = D + DD

end /* of loop on i */

3.5 Step 5. Output

The message digest produced as output is A, B, C, D. That is, we
begin with the low-order byte of A, and end with the high-order byte
of D.

This completes the description of MD5. A reference implementation in
C is given in the appendix.

4. Summary

The MD5 message-digest algorithm is simple to implement, and provides
a "fingerprint" or message digest of a message of arbitrary length.
It is conjectured that the difficulty of coming up with two messages
having the same message digest is on the order of $2^{64}$ operations,
and that the difficulty of coming up with any message having a given
message digest is on the order of $2^{128}$ operations. The MD5 algorithm
has been carefully scrutinized for weaknesses. It is, however, a
relatively new algorithm and further security analysis is of course
justified, as is the case with any new proposal of this sort.

5. Differences Between MD4 and MD5

The following are the differences between MD4 and MD5:

1. A fourth round has been added.

2. Each step now has a unique additive constant.

3. The function g in round 2 was changed from \((XY \lor XZ \lor YZ)\) to \((XZ \lor Y \neg(Z))\) to make g less symmetric.

4. Each step now adds in the result of the previous step. This promotes a faster "avalanche effect".

5. The order in which input words are accessed in rounds 2 and 3 is changed, to make these patterns less like each other.

6. The shift amounts in each round have been approximately optimized, to yield a faster "avalanche effect." The shifts in different rounds are distinct.

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References


APPENDIX A - Reference Implementation

This appendix contains the following files taken from RSAREF: A Cryptographic Toolkit for Privacy-Enhanced Mail:

global.h -- global header file

md5.h -- header file for MD5

md5c.c -- source code for MD5

For more information on RSAREF, send email to <rsaref@rsa.com>.

The appendix also includes the following file:

mddriver.c -- test driver for MD2, MD4 and MD5

The driver compiles for MD5 by default but can compile for MD2 or MD4 if the symbol MD is defined on the C compiler command line as 2 or 4.

The implementation is portable and should work on many different platforms. However, it is not difficult to optimize the implementation on particular platforms, an exercise left to the reader. For example, on "little-endian" platforms where the lowest-addressed byte in a 32-bit word is the least significant and there are no alignment restrictions, the call to Decode in MD5Transform can be replaced with a typecast.

A.1 global.h

/* GLOBAL.H - RSAREF types and constants */

/* PROTOTYPES should be set to one if and only if the compiler supports function argument prototyping.
The following makes PROTOTYPES default to 0 if it has not already


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been defined with C compiler flags. */

#ifndef PROTOTYPES
#define PROTOTYPES 0
#endif

/* POINTER defines a generic pointer type */
typedef unsigned char *POINTER;

/* UINT2 defines a two byte word */
typedef unsigned short int UINT2;

/* UINT4 defines a four byte word */
typedef unsigned long int UINT4;

/* PROTO_LIST is defined depending on how PROTOTYPES is defined above. */
/* If using PROTOTYPES, then PROTO_LIST returns the list, otherwise it */
/* returns an empty list. */
#if PROTOTYPES
#define PROTO_LIST(list) list
#else
#define PROTO_LIST(list) ()
#endif

A.2 md5.h

/* MD5.H - header file for MD5C.C */

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documentation and/or software.
*/

/* MD5 context. */
typedef struct {
    UINT4 state[4]; /* state (ABCD) */
    UINT4 count[2]; /* number of bits, modulo 2^64 (lsb first) */
    unsigned char buffer[64]; /* input buffer */
} MD5_CTX;

void MD5Init PROTO_LIST ((MD5_CTX *));
void MD5Update PROTO_LIST ((MD5_CTX *, unsigned char *, unsigned int));
void MD5Final PROTO_LIST ((unsigned char [16], MD5_CTX *));

A.3 md5c.c

/* MD5C.C - RSA Data Security, Inc., MD5 message-digest algorithm */

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documentation and/or software.
*/
#include "global.h"
#include "md5.h"

/* Constants for MD5Transform routine. */

/* F, G, H and I are basic MD5 functions. */
#define F(x, y, z) (((x) & (y)) | ((~x) & (z)))
#define G(x, y, z) (((x) & (z)) | ((y) & (~z)))

static void MD5Transform PROTO_LIST ((UINT4 [4], unsigned char [64]));
static void Encode PROTO_LIST ((unsigned char *, UINT4 *, unsigned int));
static void Decode PROTO_LIST ((UINT4 *, unsigned char *, unsigned int));
static void MD5_memcpy PROTO_LIST ((POINTER, POINTER, unsigned int));
static void MD5_memset PROTO_LIST ((POINTER, int, unsigned int));

static unsigned char PADDING[64] = {
 0x80, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
};

static unsigned char PADDING[64] = {
 0x80, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
};

/* F, G, H and I are basic MD5 functions. */
#define F(x, y, z) (((x) & (y)) | ((~x) & (z)))
#define G(x, y, z) (((x) & (z)) | ((y) & (~z)))
#define H(x, y, z) ((x) ^ (y) ^ (z))
#define I(x, y, z) ((y) ^ ((x) | (~z)))

/* ROTATE_LEFT rotates x left n bits. */
#define ROTATE_LEFT(x, n) (((x) << (n)) | ((x) >> (32-(n))))

/* FF, GG, HH, and II transformations for rounds 1, 2, 3, and 4.
Rotation is separate from addition to prevent recomputation. */
#define FF(a, b, c, d, x, s, ac) { 
  (a) += F ((b), (c), (d)) + (x) + (UINT4)(ac); 
  (a) = ROTATE_LEFT ((a), (s)); 
  (a) += (b); 
}
#define GG(a, b, c, d, x, s, ac) { 
  (a) += G ((b), (c), (d)) + (x) + (UINT4)(ac); 
  (a) = ROTATE_LEFT ((a), (s)); 
  (a) += (b); 
}
#define HH(a, b, c, d, x, s, ac) { 
  (a) += H ((b), (c), (d)) + (x) + (UINT4)(ac); 
  (a) = ROTATE_LEFT ((a), (s)); 
  (a) += (b); 
}
#define II(a, b, c, d, x, s, ac) { 
  (a) += I ((b), (c), (d)) + (x) + (UINT4)(ac); 
  (a) = ROTATE_LEFT ((a), (s)); 
  (a) += (b); 
}

/* MD5 initialization. Begins an MD5 operation, writing a new context. */
void MD5Init (context)
MD5_CTX *context; /* context */
{
  context->count[0] = context->count[1] = 0;
  /* Load magic initialization constants. */
  context->state[0] = 0x67452301;
context->state[1] = 0xefcdab89;
context->state[2] = 0x98badcfe;
context->state[3] = 0x10325476;
}

/* MD5 block update operation. Continues an MD5 message-digest operation, processing another message block, and updating the context. */
void MD5Update (context, input, inputLen)
    MD5_CTX *context; /* context */
    unsigned char *input; /* input block */
    unsigned int inputLen; /* length of input block */
{
    unsigned int i, index, partLen;

    /* Compute number of bytes mod 64 */
    index = (unsigned int)((context->count[0] >> 3) & 0x3F);

    /* Update number of bits */
    if ((context->count[0] += ((UINT4)inputLen << 3)) < ((UINT4)inputLen << 3))
        context->count[1]++;
    context->count[1] += ((UINT4)inputLen >> 29);
    partLen = 64 - index;

    /* Transform as many times as possible. */
    if (inputLen >= partLen) {
        MD5_memcpy((POINTER)&context->buffer[index], (POINTER)input, partLen);
        MD5Transform (context->state, context->buffer);
        for (i = partLen; i + 63 < inputLen; i += 64)
            MD5Transform (context->state, &input[i]);

        index = 0;
    } else

i = 0;

/* Buffer remaining input */
MD5_memcpy
((POINTER)&context->buffer[index], (POINTER)&input[i],
  inputLen-i);
}

/* MD5 finalization. Ends an MD5 message-digest operation, writing the
the message digest and zeroizing the context. */
void MD5Final (digest, context)
unsigned char digest[16];                         /* message digest */
MD5_CTX *context;                                       /* context */
{
  unsigned char bits[8];
  unsigned int index, padLen;

  /* Save number of bits */
  Encode (bits, context->count, 8);

  /* Pad out to 56 mod 64. */
  index = (unsigned int)((context->count[0] >> 3) & 0x3f);
  padLen = (index < 56) ? (56 - index) : (120 - index);
  MD5Update (context, PADDING, padLen);

  /* Append length (before padding) */
  MD5Update (context, bits, 8);

  /* Store state in digest */
  Encode (digest, context->state, 16);

  /* Zeroize sensitive information. */
  MD5_memset ((POINTER)context, 0, sizeof (*context));
}

/* MD5 basic transformation. Transforms state based on block. */
static void MD5Transform (state, block)
UINT4 state[4];
unsigned char block[64];
{
    UINT4 a = state[0], b = state[1], c = state[2], d = state[3], x[16];

    Decode (x, block, 64);

    /* Round 1 */
    FF (a, b, c, d, x[ 0], S11, 0xd76aa478); /* 1 */
    FF (d, a, b, c, x[ 1], S12, 0xe8c7b756); /* 2 */
    FF (c, d, a, b, x[ 2], S13, 0x242070db); /* 3 */
    FF (b, c, d, a, x[ 3], S14, 0x1bdceee); /* 4 */
    FF (a, b, c, d, x[ 4], S11, 0xf57c0faf); /* 5 */
    FF (d, a, b, c, x[ 5], S12, 0x4787c62a); /* 6 */
    FF (c, d, a, b, x[ 6], S13, 0xa8304613); /* 7 */
    FF (b, c, d, a, x[ 7], S14, 0xfd469501); /* 8 */
    FF (a, b, c, d, x[ 8], S11, 0x698098d8); /* 9 */
    FF (d, a, b, c, x[ 9], S12, 0x88b44f7af); /* 10 */
    FF (c, d, a, b, x[10], S13, 0xfd987193); /* 11 */
    FF (b, c, d, a, x[11], S14, 0xc33707d6); /* 12 */
    FF (a, b, c, d, x[12], S11, 0xdaa9c7b4); /* 13 */
    FF (d, a, b, c, x[13], S12, 0x5c4a4095); /* 14 */
    FF (c, d, a, b, x[14], S13, 0xe9b6c7aa); /* 15 */
    FF (b, c, d, a, x[15], S14, 0x895cd7be); /* 16 */

    /* Round 2 */
    GG (a, b, c, d, x[ 1], S21, 0xf6a1e256); /* 17 */
    GG (d, a, b, c, x[ 6], S22, 0xc040b340); /* 18 */
    GG (c, d, a, b, x[11], S23, 0x026e5a51); /* 19 */
    GG (b, c, d, a, x[ 0], S24, 0xe9b6c7aa); /* 20 */
    GG (a, b, c, d, x[ 5], S21, 0xd62f105d); /* 21 */
    GG (d, a, b, c, x[10], S22, 0xe2444153); /* 22 */
    GG (c, d, a, b, x[15], S23, 0xdaa9c7b4); /* 23 */
    GG (b, c, d, a, x[ 4], S24, 0x78c26307); /* 24 */
    GG (a, b, c, d, x[ 9], S21, 0xe9b6c7aa); /* 25 */
    GG (d, a, b, c, x[14], S22, 0xc33707d6); /* 26 */
    GG (c, d, a, b, x[ 3], S23, 0x895cd7be); /* 27 */

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    GG (b, c, d, a, x[ 8], S24, 0x455a14ed); /* 28 */
    GG (a, b, c, d, x[13], S21, 0xa9e3e905); /* 29 */
    GG (d, a, b, c, x[ 2], S22, 0xfc4fa3f8); /* 30 */
GG (c, d, a, b, x[7], S23, 0x676f02d9); /* 31 */
GG (b, c, d, a, x[12], S24, 0x8d2a4c8a); /* 32 */

/* Round 3 */
HH (a, b, c, d, x[5], S31, 0xffffa3942); /* 33 */
HH (d, a, b, c, x[8], S32, 0x8771f681); /* 34 */
HH (c, d, a, b, x[11], S33, 0x66d6122); /* 35 */
HH (b, c, d, a, x[14], S34, 0xfd5380c); /* 36 */
HH (a, b, c, d, x[1], S31, 0xa4beea44); /* 37 */
HH (d, a, b, c, x[4], S32, 0x4bdecfa9); /* 38 */
HH (c, d, a, b, x[7], S33, 0x6fbb4b60); /* 39 */
HH (b, c, d, a, x[10], S34, 0xbefbfc70); /* 40 */
HH (a, b, c, d, x[13], S31, 0x289b7ec6); /* 41 */
HH (d, a, b, c, x[0], S32, 0xeaaa27fa); /* 42 */
HH (c, d, a, b, x[3], S33, 0xd4ef3085); /* 43 */
HH (b, c, d, a, x[6], S34, 0x4881d05); /* 44 */
HH (a, b, c, d, x[9], S31, 0xd9d4d039); /* 45 */
HH (d, a, b, c, x[12], S32, 0x66b99e5); /* 46 */
HH (c, d, a, b, x[15], S33, 0x1fa27cf8); /* 47 */
HH (b, c, d, a, x[2], S34, 0xc4ac5665); /* 48 */

/* Round 4 */
II (a, b, c, d, x[0], S41, 0xf4292244); /* 49 */
II (d, a, b, c, x[7], S42, 0x432aff97); /* 50 */
II (c, d, a, b, x[14], S43, 0x9423a7); /* 51 */
II (b, c, d, a, x[5], S44, 0xc9a3039); /* 52 */
II (a, b, c, d, x[12], S41, 0x655b593); /* 53 */
II (d, a, b, c, x[3], S42, 0x8f0cc92); /* 54 */
II (c, d, a, b, x[10], S43, 0xffeff470); /* 55 */
II (b, c, d, a, x[1], S44, 0x85845dd1); /* 56 */
II (a, b, c, d, x[8], S41, 0x6fa87e4f); /* 57 */
II (d, a, b, c, x[15], S42, 0xfe2e6e0); /* 58 */
II (c, d, a, b, x[6], S43, 0xa3014314); /* 59 */
II (b, c, d, a, x[13], S44, 0xe0811a1); /* 60 */
II (a, b, c, d, x[4], S41, 0xf7537e82); /* 61 */
II (d, a, b, c, x[11], S42, 0xb3af325); /* 62 */
II (c, d, a, b, x[2], S43, 0x2ad7d2bb); /* 63 */
II (b, c, d, a, x[9], S44, 0xe86d391); /* 64 */

state[0] += a;
state[1] += b;
state[2] += c;
state[3] += d;

/* Zeroize sensitive information.
MD5_memset ((POINTER)x, 0, sizeof (x));

/* Encodes input (UINT4) into output (unsigned char). Assumes len is
 a multiple of 4.
*/
static void Encode (output, input, len)
unsigned char *output;
UINT4 *input;
unsigned int len;
{
    unsigned int i, j;

    for (i = 0, j = 0; j < len; i++, j += 4) {
        output[j] = (unsigned char)(input[i] & 0xff);
        output[j+1] = (unsigned char)((input[i] >> 8) & 0xff);
        output[j+2] = (unsigned char)((input[i] >> 16) & 0xff);
        output[j+3] = (unsigned char)((input[i] >> 24) & 0xff);
    }
}

/* Decodes input (unsigned char) into output (UINT4). Assumes len is
 a multiple of 4.
*/
static void Decode (output, input, len)
UINT4 *output;
unsigned char *input;
unsigned int len;
{
    unsigned int i, j;

    for (i = 0, j = 0; j < len; i++, j += 4)
        output[i] = ((UINT4)input[j]) | (((UINT4)input[j+1]) << 8) | ((UINT4)input[j+2]) << 16) | (((UINT4)input[j+3]) << 24);
}

/* Note: Replace "for loop" with standard memcpy if possible.
*/
static void MD5_memcpy (output, input, len)
POINTER output;
POINTER input;
unsigned int len;
{
    unsigned int i;

    for (i = 0; i < len; i++)

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    output[i] = input[i];
    }

    /* Note: Replace "for loop" with standard memset if possible. */
    */
    static void MD5_memset (output, value, len)
    POINTER output;
    int value;
    unsigned int len;
    {
    unsigned int i;

    for (i = 0; i < len; i++)
    ((char *)output)[i] = (char)value;
    }

A.4 mddriver.c

/* MDDRIVER.C - test driver for MD2, MD4 and MD5 */
/*
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*/

/* The following makes MD default to MD5 if it has not already been defined with C compiler flags. */
#ifndef MD
#define MD MD5
#endif

#include <stdio.h>
#include <time.h>
#include <string.h>
#include "global.h"
#if MD == 2
#include "md2.h"
#endif
#if MD == 4
#include "md4.h"
#endif
#if MD == 5
#include "md5.h"
#endif

/* Length of test block, number of test blocks. */
#define TEST_BLOCK_LEN 1000
#define TEST_BLOCK_COUNT 1000

static void MDString PROTO_LIST ((char *));
static void MDTimeTrial PROTO_LIST ((void));
static void MDTestSuite PROTO_LIST ((void));
static void MDFile PROTO_LIST ((char *));
static void MDFilter PROTO_LIST ((void));
static void MDPrint PROTO_LIST ((unsigned char [16]));

#if MD == 2
#define MD_CTX MD2_CTX
#define MDInit MD2Init
#define MDUpdate MD2Update
#define MDFinal MD2Final
#endif
#if MD == 4
#define MD_CTX MD4_CTX
#define MDInit MD4Init
#define MDUpdate MD4Update
#define MDFinal MD4Final
#endif

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#include "md4.h"
#endif
#if MD == 5
#include "md5.h"
#endif

/* Length of test block, number of test blocks. */
#define TEST_BLOCK_LEN 1000
#define TEST_BLOCK_COUNT 1000

static void MDString PROTO_LIST ((char *));
static void MDTimeTrial PROTO_LIST ((void));
static void MDTestSuite PROTO_LIST ((void));
static void MDFile PROTO_LIST ((char *));
static void MDFilter PROTO_LIST ((void));
static void MDPrint PROTO_LIST ((unsigned char [16]));

#if MD == 2
#define MD_CTX MD2_CTX
#define MDInit MD2Init
#define MDUpdate MD2Update
#define MDFinal MD2Final
#endif
#if MD == 4
#define MD_CTX MD4_CTX
#define MDInit MD4Init
#define MDUpdate MD4Update
#define MDFinal MD4Final
#endif
/* Main driver. 

Arguments (may be any combination):
- -string - digests string
- t       - runs time trial
- x       - runs test script
filename - digests file
(none)   - digests standard input
*/

int main (argc, argv)

int argc;

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char *argv[];
{
    int i;

    if (argc > 1)
for (i = 1; i < argc; i++)
    if (argv[i][0] == '-' && argv[i][1] == 's')
        MDString (argv[i] + 2);
    else if (strcmp (argv[i], "-t") == 0)
        MDTimTrial ();
    else if (strcmp (argv[i], "-x") == 0)
        MDTestSuite ();
    else
        MDFile (argv[i]);
    else
        MDFilter ();

    return (0);
}
/* Digests a string and prints the result. */
static void MDString (string)
char *string;
{
    MD_CTX context;
    unsigned char digest[16];
    unsigned int len = strlen (string);

    MDInit (&context);
    MDUpdate (&context, string, len);
    MDFinal (digest, &context);

    printf ("MD%d ("%s") = ", MD, string);
    MDPrint (digest);
    printf ("n");
}

/* Measures the time to digest TEST_BLOCK_COUNT TEST_BLOCK_LEN-byte blocks. */
static void MDTimeTrial ()
{
    MD_CTX context;
    time_t endTime, startTime;
    unsigned char block[TEST_BLOCK_LEN], digest[16];
    unsigned int i;

    printf ("MD%d time trial. Digesting %d %d-byte blocks ...", MD, TEST_BLOCK_LEN, TEST_BLOCK_COUNT);

    /* Initialize block */
    for (i = 0; i < TEST_BLOCK_LEN; i++)
    block[i] = (unsigned char)(i & 0xff);

    /* Start timer */
    time (&startTime);

    /* Initial time */
    for (i = 0; i < TEST_BLOCK_COUNT; i++)
    MDUpdate (&context, block, TEST_BLOCK_LEN);

    /* Finalize block */
    MDFinal (digest, &context);

    printf ("MD%d time trial. Digesting %d %d-byte blocks ...", MD, TEST_BLOCK_LEN, TEST_BLOCK_COUNT);

    /* Measure time */
    endTime = time (NULL);
    printf (" Time = %d
", (long)(endTime - startTime));

    return 0;
}
/* Digest blocks */
MDInit (&context);
for (i = 0; i < TEST_BLOCK_COUNT; i++)
MDUpdate (&context, block, TEST_BLOCK_LEN);
MDFinal (digest, &context);

/* Stop timer */
time (&endTime);
printf (" done\n");
printf ("Digest = ");
MDPrint (digest);
printf ("\tTime = %ld seconds\n", (long)(endTime-startTime));
printf ("\tSpeed = %ld bytes/second\n", (long)TEST_BLOCK_LEN * (long)TEST_BLOCK_COUNT/(endTime-startTime));
}

/* Digests a reference suite of strings and prints the results. */
static void MDTestSuite ()
{
printf ("MD%d test suite:\n", MD);
    MDString ("\\");
    MDString ("a");
    MDString ("abc");
    MDString ("message digest");
    MDString ("abcdefghijklmnopqrstuvwxyz");
    MDString ("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789");
    MDString ("12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890");
}

/* Digests a file and prints the result. */

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{ FILE *file;
    MD_CTX context;
    int len;
    unsigned char buffer[1024], digest[16];

    if ((file = fopen (filename, "rb")) == NULL)
        printf ("%s can't be opened\n", filename);
    else {
        MDInit (&context);
        while (len = fread (buffer, 1, 1024, file))
            MDUpdate (&context, buffer, len);
        MDFinal (digest, &context);

        fclose (file);

        printf("MD%d (%s) = ", MD, filename);
        MDPrint (digest);
        printf ("\n");
    }
}

/* Digests the standard input and prints the result.
*/
static void MDFilter ()
{
    MD_CTX context;
    int len;
    unsigned char buffer[16], digest[16];

    MDInit (&context);
    while (len = fread (buffer, 1, 16, stdin))
        MDUpdate (&context, buffer, len);
    MDFinal (digest, &context);

    MDPrint (digest);
    printf ("\n");
}

/* Prints a message digest in hexadecimal.
*/
static void MDPrint (digest)
unsigned char digest[16];
{
unsigned int i;

for (i = 0; i < 16; i++)
printf ("%02x", digest[i]);
}

A.5 Test suite

The MD5 test suite (driver option "-x") should print the following results:

MD5 test suite:
MD5 ("") = d41d8cd98f00b204e9800998ecf8427e
MD5 ("a") = 0cc175b9c0f1b6a831c399e269772661
MD5 ("abc") = 900150983cd24fb0d6963f7d28e17f72
MD5 ("message digest") = f96b697d7cb7938d525a2f31aaf161d0
MD5 ("abcdefghijklmnopqrstuvwxyz") = c3fcd3d76192e4007dfb496ccaf67e13b
MD5 ("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789") =
d174ab98d277d9f5a5611e2c2f9f419d9f
MD5 ("123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890") = 57ef6a22be3c955ac49da2e2107b67a

Security Considerations

The level of security discussed in this memo is considered to be sufficient for implementing very high security hybrid digital-signature schemes based on MD5 and a public-key cryptosystem.

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1.318 stack 1.8.0

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1.319 eclipse-osgi 3.9.1.v20130814-1242
1.320 siddhi-query-api 3.2.3

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MySQL Router 8.0

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

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

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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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least three years, to give the same user the materials
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Licensing Information User Manual

MySQL 8.0

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libssh v0.7.3

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libunwind

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wcwidth.cpp
Markus Kuhn -- 2007-05-26 (Unicode 5.0)

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Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xIC compiler build issues
* Added atomicops for AIX (POWER)

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4.6.105

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1.367 jaxb-core 2.2.6

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1.368 wso2-carbon-identity-authentication

4.6.19

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  jar/org/springframework/core/convert/support/GenericConversionService.java
* /opt/ws_local/PERMITS_SQL/1018977219_1591384804.91/0/spring-core-4-1-6-release-sources-
  jar/org/springframework/core/io/support/EncodedResource.java
* /opt/ws_local/PERMITS_SQL/1018977219_1591384804.91/0/spring-core-4-1-6-release-sources-
  jar/org/springframework/util/NumberUtils.java
* /opt/ws_local/PERMITS_SQL/1018977219_1591384804.91/0/spring-core-4-1-6-release-sources-
  jar/org/springframework/util/comparator/InstanceComparator.java
* /opt/ws_local/PERMITS_SQL/1018977219_1591384804.91/0/spring-core-4-1-6-release-sources-
  jar/org/springframework/util/StringUtils.java
* /opt/ws_local/PERMITS_SQL/1018977219_1591384804.91/0/spring-core-4-1-6-release-sources-
  jar/org/springframework/util/SimpleIdGenerator.java
* /opt/ws_local/PERMITS_SQL/1018977219_1591384804.91/0/spring-core-4-1-6-release-sources-
  jar/org/springframework/util/ResizableByteArrayOutputStream.java
* /opt/ws_local/PERMITS_SQL/1018977219_1591384804.91/0/spring-core-4-1-6-release-sources-
  jar/org/springframework/core/MethodParameter.java
* /opt/ws_local/PERMITS_SQL/1018977219_1591384804.91/0/spring-core-4-1-6-release-sources-
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  jar/org/springframework/core/ResolvableType.java
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  jar/org/springframework/core/convert/Converter.java
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  jar/org/springframework/core/convert/ConverterFactory.java
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  jar/org/springframework/util/concurrent/ListenableFutureAdapter.java
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1.373 minlog 1.3.0

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1.382 netty-codec 4.1.49.Final

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  jar/io/netty/handler/codec/xml/XmlFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
  jar/io/netty/handler/codec/compression/Crc32c.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
  jar/io/netty/handler/codec/compression/JdkZlibDecoder.java

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* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4.1-49-final-sources-1-
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 */
/**
 * Enumeration of supported Base64 dialects.
 * <p>
 * The internal lookup tables in this class has been derived from
 * <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
 * Base64 Encoder/Decoder</a>.
 */

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  */opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
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Utility class for \{@link ByteBuf\} that encodes and decodes to and from
\>Base64\</a> notation.

The encoding and decoding algorithm in this class has been derived from
\>Robert Harder's Public Domain\</a>. Base64 Encoder/Decoder\</a>.
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  jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4.1-49-final-sources-1-
  jar/io/netty/handler/codec/ValueConverter.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4.1-49-final-sources-1-
  jar/io/netty/handler/codec/DefaultHeadersImpl.java
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* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/ProtocolDetectionState.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/UnsupportedValueConverter.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/ProtocolDetectionResult.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/ProtocolDetectionResult.java
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/**
 * A decoder that splits the received {@link ByteBuf}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 * <p>
 * {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
*
* <h3>2 bytes length field at offset 0, do not strip header</h3>
*
* The value of the length field in this example is <tt>12 (0x0C)</tt> which
* represents the length of "HELLO, WORLD". By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field. Therefore, it can be decoded with the simplistic parameter
* combination.
* <pre>
* <b>lengthFieldOffset</b>   = <b>0</b>
* <b>lengthFieldLength</b>   = <b>2</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0 (= do not strip header)
* </pre>
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 0, strip header</h3>
*
* Because we can get the length of the content by calling
* [{link ByteBuf#readableBytes()}, you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>. In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
* </pre>
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
only, as shown in the previous examples. However, in some protocols, the
length field represents the length of the whole message, including the
message header. In such a case, we specify a non-zero
<tt>lengthAdjustment</tt>. Because the length value in this example message
is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt> for
compensation.

* <pre>
* lengthFieldOffset   =  0
* lengthFieldLength   =  2
* <b>lengthAdjustment</b>    = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip =  0
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example. An extra
header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
again because the decoder always takes the length of the prepended data into
account during frame length calculation.

* <pre>
* <b>lengthFieldOffset</b>   = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b>   = <b>3</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)         AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* |  0xCAFE  | 0x00000C | "HELLO, WORLD" |      |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra
header between the length field and the message body. You have to specify a
positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
header into the frame length calculation.

* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 3
* <b>lengthAdjustment</b>    = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0

* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Length  | Header 1 | Actual Content |----->| Length  | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE  | "HELLO, WORLD" |      | 0x00000C | 0xCAFE  | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>

* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field</h3>

* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the \texttt{lengthFieldOffset} and the extra
* header affects the \texttt{lengthAdjustment}. We also specified a non-zero
* \texttt{initialBytesToStrip} to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify \texttt{0} for \texttt{initialBytesToSkip}.
* \pre
* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* \texttt{lengthAdjustment} = \texttt{1} (= the length of HDR2)
* \texttt{initialBytesToStrip} = \texttt{3} (= the length of HDR1 + LEN)
* \pre
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+--------+------+----------------+
* </pre>

* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message</h3>

* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into \texttt{lengthAdjustment}.
* Please note that we don't need to take the length of HDR2 into account
* because the length field already includes the whole header length.
* \pre
* lengthFieldOffset   = 1
* lengthFieldLength   = 2
* \texttt{lengthAdjustment} = \texttt{-3} (= the length of HDR1 + LEN, negative)
* \texttt{initialBytesToStrip} = \texttt{3}
* \pre
* BEFORE DECODE (16 bytes)      AFTER DECODE (13 bytes)
* +-----------------------------+------------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +-----------------------------+------------------+
* @see LengthFieldPrepender
*/

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* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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* /opt/ws_local/PERMITS_SQL/1063698758_1593013320.39/0/vertx-auth-common-3-9-1-sources-jar/io/vertx/ext/auth/HashString.java
* /opt/ws_local/PERMITS_SQL/1063698758_1593013320.39/0/vertx-auth-common-3-9-1-sources-jar/io/vertx/ext/auth/impl/hash/SHA512.java
* /opt/ws_local/PERMITS_SQL/1063698758_1593013320.39/0/vertx-auth-common-3-9-1-sources-jar/io/vertx/ext/auth/AbstractUser.java
* /opt/ws_local/PERMITS_SQL/1063698758_1593013320.39/0/vertx-auth-common-3-9-1-sources-jar/io/vertx/ext/auth/HashingAlgorithm.java
* /opt/ws_local/PERMITS_SQL/1063698758_1593013320.39/0/vertx-auth-common-3-9-1-sources-jar/io/vertx/ext/auth/AuthProvider.java
* /opt/ws_local/PERMITS_SQL/1063698758_1593013320.39/0/vertx-auth-common-3-9-1-sources-jar/io/vertx/ext/auth/AuthProvider.java

jar/io/vertx/ext/auth/ChainAuth.java
* /opt/ws_local/PERMITS_SQL/1063698758_1593013320.39/0/vertx-auth-common-3-9-1-sources-
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jar/io/vertx/ext/auth/PRNG.java
* /opt/ws_local/PERMITS_SQL/1063698758_1593013320.39/0/vertx-auth-common-3-9-1-sources-
jar/io/vertx/ext/auth/impl/hash/PBKDF2.java
* /opt/ws_local/PERMITS_SQL/1063698758_1593013320.39/0/vertx-auth-common-3-9-1-sources-
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* /opt/ws_local/PERMITS_SQL/1063698758_1593013320.39/0/vertx-auth-common-3-9-1-sources-
jar/io/vertx/ext/auth/VertxContextPRNG.java
* /opt/ws_local/PERMITS_SQL/1063698758_1593013320.39/0/vertx-auth-common-3-9-1-sources-
jar/io/vertx/ext/auth/KeyStoreOptions.java

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jsch-0.1.31.jar  
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bcpov-jdk15-132.jar  
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+++++++++++++++  

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, deastation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbdf) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.
Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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1.394 xpp 1.1.4c

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>
1.397 openjdk 1.8.0u265

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1.422 bcpkix-jdk15on 1.60

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4.6.38

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*/

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import java.io.IOException;
import java.io.InputStream;

/***
 * Marker interface for OutputStreams that can directly support
 * copying from an input stream. OutputStreams that maintain their
 * own byte buffer or similar may be able to optimize the copy
 * instead of using the read/write into a temporary buffer that
 * the normal IOUtils.copy method requires.
 */
public interface CopyingOutputStream {

    int copyFrom(InputStream in) throws IOException;
}

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1.431 go-flags 1.4.0

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1.432 apache-felix-gogo-runtime 0.10.0

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et  
lib/gssapi/mechglue/g_accept_sec_context.c  
lib/gssapi/mechglue/g_acquire_cred.c  
lib/gssapi/mechglue/g_canon_name.c  
lib/gssapi/mechglue/g_compare_name.c  
lib/gssapi/mechglue/g_context_time.c  
lib/gssapi/mechglue/g_delete_sec_context.c  
lib/gssapi/mechglue/g_dsp_name.c  
lib/gssapi/mechglue/g_dsp_status.c  
lib/gssapi/mechglue/g_dup_name.c  
lib/gssapi/mechglue/g_exp_sec_context.c  
lib/gssapi/mechglue/g_export_name.c  
lib/gssapi/mechglue/g_glue.c  
lib/gssapi/mechglue/g_imp_name.c  
lib/gssapi/mechglue/g_imp_sec_context.c  
lib/gssapi/mechglue/g_init_sec_context.c  
lib/gssapi/mechglue/g_initialize.c  
lib/gssapi/mechglue/g_inquire_context.c  
lib/gssapi/mechglue/g_inquire_cred.c  
lib/gssapi/mechglue/g_inquire_names.c  
lib/gssapi/mechglue/g_process_context.c  
lib/gssapi/mechglue/g_rel_buffer.c  
lib/gssapi/mechglue/g_rel_cred.c  
lib/gssapi/mechglue/g_rel_name.c  
lib/gssapi/mechglue/g_rel_oid_set.c  
lib/gssapi/mechglue/g_seal.c  
lib/gssapi/mechglue/g_sign.c  
lib/gssapi/mechglue/g_store_cred.c  
lib/gssapi/mechglue/g_unseal.c  
lib/gssapi/mechglue/g_userok.c  
lib/gssapi/mechglue/g_utils.c  
lib/gssapi/mechglue/g_verify.c  
lib/gssapi/mechglue/gssd_pname_to_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid_ops.c  
lib/gssapi/spnego/gssapiP_spnego.h
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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* $Revision: 1161 $
* $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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*$Id: JaxenException.java 1161 2006-06-03 20:36:00Z elharo $
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/JaxenException.java
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/$Id: ContextSupport.java 1157 2006-06-03 20:07:37Z elharo $

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* $Id: TextNodeTest.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* $Id: DefaultArithExpr.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/expr/DefaultArithExpr.java
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*$Id: IterableAncestorOrSelfAxis.java 1162 2006-06-03 20:52:26Z elharo $
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*$Revision: 1128 $
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* $Id: XPathNamespace.java 1128 2006-02-05 21:49:04Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/jdom/XPathNamespace.java
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* $Id: DefaultVariableReferenceExpr.java 1367 2012-05-05 16:31:33Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultVariableReferenceExpr.java
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$Id: VariableContext.java 1168 2006-07-03 11:58:31Z elharo $

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* $Id: DescendantAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
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 * Slid: DescendantOrSelfAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
 */
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/util/DescendantOrSelfAxisIterator.java

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* $Id: LowerFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* 
* $Id: LinkedIterator.java 1255 2006-11-09 18:20:12Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/util/LinkedIterator.java
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 * $Header$
 * $Revision: 1159 $
 * $Date: 2006-06-03 13:25:34 -0700 (Sat, 03 Jun 2006) $
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$Id: SimpleVariableContext.java 1159 2006-06-03 20:25:34Z elharo $

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* *
* $Id: XPathFactory.java 1337 2008-12-03 01:58:10Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/expr/XPathFactory.java

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 * $Revision: 1261 $
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Found in path(s):
  * /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
    jar/org/jaxen/expr/DefaultFilterExpr.java
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* $Revision: 1128 $
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$Id: NotFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: DefaultPathExpr.java 1261 2006-11-30 18:49:27Z elharo $ 
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultPathExpr.java

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultMinusExpr.java
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 * $Revision: 1236 $
 * $Date: 2006-11-08 09:10:02 -0800 (Wed, 08 Nov 2006) $
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Found in path(s):
/opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/NameStep.java

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* $Id: NameStep.java 1236 2006-11-08 17:10:02Z elharo $
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* $Header$
* $Revision: 1179 $
* $Date: 2006-07-16 04:07:25 -0700 (Sun, 16 Jul 2006) $
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* $Id: FunctionCallException.java 1179 2006-07-16 11:07:25Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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 * $Header$
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* $Id: VariableReferenceExpr.java 1248 2006-11-08 19:20:29Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* $Id: RoundFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: IterableDescendantAxis.java 1162 2006-06-03 20:52:26Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* $Id: AnyNodeTest.java 1128 2006-02-05 21:49:04Z elharo $
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*
* $Id: FunctionCallExpr.java 1232 2006-11-08 16:37:59Z elharo$
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/expr/FunctionCallExpr.java
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* $Id: XPathReader.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/saxpath/XPathReader.java
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 * $Id: PositionFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources.jar/org/jaxen/function/PositionFunction.java

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$Id: LocationPathPattern.java 1128 2006-02-05 21:49:04Z elharo $

Found in path(s):
/ /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/pattern/LocationPathPattern.java
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* $Id: NoNodeTest.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/pattern/NoNodeTest.java

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* $Id: DefaultMultiplicativeExpr.java 1128 2006-02-05 21:49:04Z elharo $

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/jaxen-1-1-6-sources-
  jar/org/jaxen/expr/DefaultMultiplicativeExpr.java

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 * $Header$
 * $Revision: 1257 $
 * $Date: 2006-11-13 14:10:09 -0800 (Mon, 13 Nov 2006) $
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* $Id: PrecedingAxisIterator.java 1257 2006-11-13 22:10:09Z elharo $
*/

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*/opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/util/PrecedingAxisIterator.java
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* $Id: DocumentNavigator.java 1364 2011-07-30 09:46:45Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/dom/DocumentNavigator.java
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* $Revision: 1300 $
* $Date: 2007-05-02 07:27:46 -0700 (Wed, 02 May 2007) $
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* $Id: AncestorAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
*/

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*/opt/ws_local/PERMITS_SQL/1018361820_1591370763.90/jaxen-1-1-6-sources-
jar/org/jaxen/util/AncestorAxisIterator.java
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 * $Id: DefaultRelationalExpr.java 1128 2006-02-05 21:49:04Z elharo $ */
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* $Id: DefaultCommentNodeStep.java 1261 2006-11-30 18:49:27Z elharo $
*/

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* $Id: UpperFunction.java 1128 2006-02-05 21:49:04Z elharo $
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  * /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/function/ext/UpperFunction.java

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 * $Revision: 1279 $
 * $Date: 2007-01-06 04:21:12 -0800 (Sat, 06 Jan 2007) $
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* $Id: DefaultProcessingInstructionNodeStep.java 1279 2007-01-06 12:21:12Z elharo $
* /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
* jar/org/jaxen/expr/DefaultProcessingInstructionNodeStep.java
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* $Id: DOMXPath.java 1162 2006-06-03 20:52:26Z elharo $
*/

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  */opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/dom/DOMXPath.java
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 * $Revision: 1128 $
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* $Id: ConcatFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.90/jaxen-1.1.6-sources-
  jar/org/jaxen/function/ConcatFunction.java
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* $Id: SAXPathEventSource.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/saxpath/SAXPathEventSource.java
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* $Id: EqualityExpr.java 1252 2006-11-09 16:21:05Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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$Id: DefaultUnaryExpr.java 1261 2006-11-30 18:49:27Z elharo $

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/opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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$Id: CommentNodeStep.java 1225 2006-11-08 15:42:39Z elharo $

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* $Id: DefaultRelativeLocationPath.java 1261 2006-11-30 18:49:27Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* $Id: SelfAxisIterator.java 1302 2007-05-02 14:33:29Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/util/SelfAxisIterator.java
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* $Id: IterableParentAxis.java 1162 2006-06-03 20:52:26Z elharo $
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$Id: DefaultNameStep.java 1290 2007-04-17 01:26:35Z bewins $

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* $Id: AdditiveExpr.java 1252 2006-11-09 16:21:05Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/Navigator.java

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* *
* $Id: JDOMXPath.java 1161 2006-06-03 20:36:00Z elharo $
* /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/jdom/JDOMXPath.java
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* *
* $Id: FollowingSiblingAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
* /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* *
* $Id: DocumentFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/JaxenRuntimeException.java
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/JaxenConstants.java
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 * $Date: 2006-12-10 07:32:14 -0800 (Sun, 10 Dec 2006) $
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 * $Id: Step.java 1268 2006-12-10 15:32:14Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/Step.java

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* $Id: Operator.java 1128 2006-02-05 21:49:04Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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$Id: XPath.java 1304 2007-05-02 15:00:13Z elharo$

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*$Id: XPathFunctionContext.java 1222 2006-11-08 13:59:38Z elharo $*/

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$Id: IterableChildAxis.java 1162 2006-06-03 20:52:26Z elharo $

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$Id: PrecedingSiblingAxisIterator.java 1257 2006-11-13 22:10:09Z elharo $

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* $Id: BinaryExpr.java 1252 2006-11-09 16:21:05Z elharo $
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* *
* $Id: DefaultLiteralExpr.java 1273 2007-01-03 20:47:42Z elharo $
* /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultLiteralExpr.java

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* $Id: LocalNameFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
* jar/org/jaxen/function/LocalNameFunction.java
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* $Revision: 1396 $
* $Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultLessThanEqualExpr.java
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* $Revision: 1345 $
* $Date: 2009-10-22 07:25:23 -0400 (Thu, 22 Oct 2009) $
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* $Id: DefaultLocationPath.java 1345 2009-10-22 11:25:23Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultLocationPath.java
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* $Revision: 1161 $
* $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $  
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* $Id: SAXPathException.java 1161 2006-06-03 20:36:00Z elharo $  
*/  

Found in path(s):  
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/saxpath/SAXPathException.java
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 * $Revision: 1251 $
 * $Date: 2006-11-09 08:11:38 -0800 (Thu, 09 Nov 2006) $
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 * $Id: DefaultXPathFactory.java 1251 2006-11-09 16:11:38Z elharo $
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultXPathFactory.java

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* $Id: Function.java 1128 2006-02-05 21:49:04Z elharo $
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* jar/org/jaxen/expr/NodeComparator.java
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* $Id: PredicateSet.java 1258 2006-11-13 22:38:17Z elharo $
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$Id: FollowingAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $

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Found in path(s):
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.existsSync 1

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  * $Id: DefaultNavigator.java 1128 2006-02-05 21:49:04Z elharo $
  */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/DefaultNavigator.java

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$Id: StackedIterator.java 1128 2006-02-05 21:49:04Z elharo $

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/util/StackedIterator.java

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  * $Id: XPathSyntaxException.java 1161 2006-06-03 20:36:00Z elharo $
  */

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  */opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/saxpath/XPathSyntaxException.java
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   * $Revision: 1255 $
* $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $  
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* $Id: AncestorOrSelfAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $  
* /  

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/util/AncestorOrSelfAxisIterator.java
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 * $Id: DefaultAllNodeStep.java 1261 2006-11-30 18:49:27Z elharo $ */
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultAllNodeStep.java

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultGreaterThanEqualExpr.java

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 * $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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$Id: IterableFollowingSiblingAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* $Header$
* $Revision: 1253 $
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* $Id: SingletonList.java 1253 2006-11-09 16:39:19Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* jar/org/jaxen/expr/DefaultTextNodeStep.java
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$Id: StringLengthFunction.java 1324 2008-04-27 01:48:59Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/function/StringLengthFunction.java
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* $Id: XPathReader.java 1334 2008-11-29 17:58:48Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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*  
* $Id: DefaultAdditiveExpr.java 1128 2006-02-05 21:49:04Z elharo $
* /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultAdditiveExpr.java
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* $Id: DefaultXPathExpr.java 1162 2006-06-03 20:52:26Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultXPathExpr.java
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$Id: NamespaceTest.java 1128 2006-02-05 21:49:04Z elharo $
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 * $Revision: 1366 $
 * $Date: 2012-05-05 12:17:35 -0400 (Sat, 05 May 2012) $
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 * $Id: DefaultFunctionCallExpr.java 1366 2012-05-05 16:17:35Z elharo $
 */
*/
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* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: SubstringAfterFunction.java 1128 2006-02-05 21:49:04Z elharo $  */

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  * $Id: DocumentNavigator.java 1156 2006-06-03 20:04:05Z elharo $
  */

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/xom/DocumentNavigator.java

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* $Id: EndsWithFunction.java 1128 2006-02-05 21:49:04Z elharo$
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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 * $Revision: 1334$
 * $Date: 2008-11-29 09:58:48 -0800 (Sat, 29 Nov 2008)$
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* $Id: TokenTypes.java 1334 2008-11-29 17:58:48Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
* jar/org/jaxen/saxpath/base/TokenTypes.java
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* $Id: NamespaceUriFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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 * $Date: 2006-11-08 08:00:22 -0800 (Wed, 08 Nov 2006) $
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$Id: UnionExpr.java 1228 2006-11-08 16:00:22Z elharo$

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* $Id: LocaleFunctionSupport.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: XPathExpr.java 1306 2007-05-02 15:04:46Z elharo $
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$Id: ProcessingInstructionNodeStep.java 1226 2006-11-08 15:44:33Z elharo $

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* *
* $Id: SimpleNamespaceContext.java 1159 2006-06-03 20:25:34Z elharo $
*/

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 * $Id: BooleanFunction.java 1128 2006-02-05 21:49:04Z elharo $
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/function/BooleanFunction.java
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* $Id: IterableDescendantOrSelfAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/iter/IterableDescendantOrSelfAxis.java

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  * $Id: UnionPattern.java 1128 2006-02-05 21:49:04Z elharo $
  */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.90/jaxen-1-1-6-sources-
  jar/org/jaxen/pattern/UnionPattern.java
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    * $Revision: 1128 $
    * $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: PatternHandler.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/pattern/PatternHandler.java

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 * $Revision: 1396 $
 * $Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) $
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
* jar/org/jaxen/expr/DefaultLessThanExpr.java
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* $Header$
* $Revision: 1255 $
* $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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* $Id: SingleObjectIterator.java 1255 2006-11-09 18:20:12Z elharo $
* /

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
* jar/org/jaxen/util/SingleObjectIterator.java
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  * $Id: AllNodeStep.java 1225 2006-11-08 15:42:39Z elharo $
  */

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  jar/org/jaxen/expr/AllNodeStep.java
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  * $Id: LogicalExpr.java 1252 2006-11-09 16:21:05Z elharo $
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*$Id: NumberFunction.java 1386 2012-07-29 13:29:13Z elharo $
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*/opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/function/NumberFunction.java
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* $Id: BaseXPath.java 1321 2008-04-27 00:30:06Z elharo $
* /

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* $Id: MultiplicativeExpr.java 1325 2008-04-27 01:55:05Z elharo $
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$Id: TranslateFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/function/TranslateFunction.java
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*/
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* $Revision: 1234 $
* $Date: 2006-11-08 08:47:30 -0800 (Wed, 08 Nov 2006) $
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$Id: LiteralExpr.java 1234 2006-11-08 16:47:30Z elharo $

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/expr/LiteralExpr.java

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$Id: QualifiedName.java 1154 2006-06-01 13:19:30Z elharo $

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* $Id: XOMXPath.java 1161 2006-06-03 20:36:00Z elharo $
*/

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  jar/org/jaxen/xom/XOMXPath.java
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* $Id: DefaultGreaterThanExpr.java 1396 2013-01-13 12:22:49Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultGreaterThanExpr.java
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* $Id: StringFunction.java 1128 2006-02-05 21:49:04Z elharo $
* */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* $Revision: 1162$
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* $Id: Dom4jXPath.java 1162 2006-06-03 20:52:26Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/dom4j/Dom4jXPath.java
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* $Id: StartsWithFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/function/StartsWithFunction.java
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Id: DocumentNavigator.java 1161 2006-06-03 20:36:00Z elharo $ 

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 * $Id: DefaultModExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* $Id: UnaryExpr.java 1247 2006-11-08 19:06:30Z elharo $
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*
* $Id: LocationPath.java 1235 2006-11-08 17:02:21Z elharo $
*/

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*/opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/LocationPath.java
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* $Revision: 1128 $
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* $Id: NameFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/function/NameFunction.java

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* $Id: NodeTypeTest.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/pattern/NodeTypeTest.java

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* $Header$
* $Revision: 1171 $
* $Date: 2006-07-03 06:17:30 -0700 (Mon, 03 Jul 2006) $
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$/Id: DocumentNavigator.java 1171 2006-07-03 13:17:30Z elharo $/

Found in path(s):
/opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/dom4j/DocumentNavigator.java
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 * $Header$
 * $Revision: 1335 $
 * $Date: 2008-11-30 06:20:38 -0800 (Sun, 30 Nov 2008) $
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  * $Id: DefaultTruthExpr.java 1335 2008-11-30 14:20:38Z elharo $
  */

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/expr/DefaultTruthExpr.java
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* $Header$
* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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* $Id: IterablePrecedingSiblingAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/expr/iter/IterablePrecedingSiblingAxis.java
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* $Revision: 1193 $
* $Date: 2006-09-15 13:41:38 -0700 (Fri, 15 Sep 2006) $
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* $Id: XPathReaderFactory.java 1193 2006-09-15 20:41:38Z elharo $
* /
*
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
* jar/org/jaxen/saxpath/helpers/XPathReaderFactory.java
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 * $Id: NodeTest.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: XPathSyntaxException.java 1161 2006-06-03 20:36:00Z elharo $
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* $Id: IterableSelfAxis.java 1162 2006-06-03 20:52:26Z elharo $
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* $Id: FilterExpr.java 1326 2008-04-27 01:56:10Z elharo $
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* $Id: FunctionContext.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/FunctionContext.java
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* $Id: DefaultPredicate.java 1261 2006-11-30 18:49:27Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
* jar/org/jaxen/expr/DefaultPredicate.java
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* $Id: NumberExpr.java 1237 2006-11-08 17:17:32Z elharo $ *
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/expr/DefaultDivExpr.java
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$Id: SubstringBeforeFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/function/SubstringBeforeFunction.java

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* $Id: XPathHandler.java 1128 2006-02-05 21:49:04Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* $Id: CountFunction.java 1128 2006-02-05 21:49:04Z elharo $
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$Id: Pattern.java 1134 2006-04-07 17:11:52Z elharo $

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* $Id: Axis.java 1133 2006-03-30 13:56:36Z elharo $
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 * $Revision: 1161 $
 * $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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* $Id: JavaBeanXPath.java 1161 2006-06-03 20:36:00Z elharo $
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* $Id: NameTest.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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/*
* $Header$
* $Revision: 1168 $
* $Date: 2006-07-03 04:58:31 -0700 (Mon, 03 Jul 2006) $
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$Id: NamespaceContext.java 1168 2006-07-03 11:58:31Z elharo $

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 * $Revision: 1396 $
 * $Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/expr/DefaultNotEqualsExpr.java
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* $Date: 2006-11-08 10:07:25 -0800 (Wed, 08 Nov 2006) $
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* $Id: Predicated.java 1241 2006-11-08 18:07:25Z elharo $
* /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* $Revision: 1334 $
* $Date: 2008-11-29 09:58:48 -0800 (Sat, 29 Nov 2008) $
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* $Id: XPathLexer.java 1334 2008-11-29 17:58:48Z elharo $

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Found in path(s):  
*/opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultMultiplyExpr.java
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 * $Id: DefaultAndExpr.java 1261 2006-11-30 18:49:27Z elharo $
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1.471 wso2-carbon-mediator-clazz-services

4.6.105

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 * annotated method or constructor. This constraint can be used to implement
 * validation routines that depend on several parameters of the annotated
 * executable.
 */

* Script expressions can be written in any scripting or expression language,
  for which a <a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a>
  (*"Scripting for the Java<sup>TM</sup> Platform") compatible engine can be
  found on the classpath. To refer to a parameter within the scripting
* expression, use its name as obtained by the active
* [link javax.validation.ParameterNameProvider]. By default, [arg0], [arg1] etc.
* will be used as parameter names.
* </p>
* </p>
* The following listing shows an example using the JavaScript engine which
* comes with the JDK:
* </p>
* <pre>
* {@code @ParameterScriptAssert(script = "arg0.before(arg1)", lang = "javascript")
* public void createEvent(Date start, Date end) { ... }
* }
* </pre>
* Can be specified on any method or constructor.
* </p>
* *
* @author Gunnar Morling
*/

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*/
/**
* Retrieves constraint related meta data for the parameters of the given
* executable.
* *
* @param executable The executable of interest.
* *
* @return A list with parameter meta data for the given executable.
*/

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  * /opt/ws_local/PERMITS_SQL/1069394861_1594653358.43/0/hibernate-validator-5-2-0-final-sources.jar/org/hibernate/validator/internal/parameter/Engine/groups/DefaultValidationOrder.java
  * /opt/ws_local/PERMITS_SQL/1069394861_1594653358.43/0/hibernate-validator-5-2-0-final-sources.jar/org/hibernate/validator/lib Entertainment/ValidatorContextImpl.java
  * /opt/ws_local/PERMITS_SQL/1069394861_1594653358.43/0/hibernate-validator-5-2-0-final-sources.jar/org/hibernate/validator/internal/parameter/Engine/Mod10CheckValidator.java
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* /opt.ws_local/PERMITS_SQL/1069394861_1594653358.43/0/hibernate-validator-5-2-0-final-sources-
jar/org/hibernate/validator/HibernateValidatorConfiguration.java
* /opt.ws_local/PERMITS_SQL/1069394861_1594653358.43/0/hibernate-validator-5-2-0-final-sources-
jar/org/hibernate/validator/internal/metadata/descriptor/ParameterDescriptorImpl.java
* /opt.ws_local/PERMITS_SQL/1069394861_1594653358.43/0/hibernate-validator-5-2-0-final-sources-
jar/org/hibernate/validator/conf/config/ContextImpl.java
* /opt.ws_local/PERMITS_SQL/1069394861_1594653358.43/0/hibernate-validator-5-2-0-final-sources-
jar/org/hibernate/validator/conf/defs/NotDef.java
* /opt.ws_local/PERMITS_SQL/1069394861_1594653358.43/0/hibernate-validator-5-2-0-final-sources-
jar/org/hibernate/validator/conf/defs/ScriptAssert.java
* /opt.ws_local/PERMITS_SQL/1069394861_1594653358.43/0/hibernate-validator-5-2-0-final-sources-
jar/org/hibernate/validator/conf/defs/ScriptAssertDef.java
* /opt.ws_local/PERMITS_SQL/1069394861_1594653358.43/0/hibernate-validator-5-2-0-final-sources-
jar/org/hibernate/validator/conf/defs/ScriptAssertDef.java
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1.485 jackson-databind 2.10.2
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# Jackson JSON processor

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

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1.486 lvm2 2.03.09-5.el8

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1.489 siddhi-extension-kalman-filter 3.2.3

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1.494 eclipse-compiler 3.10.2.v20150120 1634
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*******************************************************************************/
package org.eclipse.text.edits;

import org.eclipse.jface.text.BadLocationException;
import org.eclipse.jface.text.IDocument;

/**
* A <code>CopyingRangeMarker</code> can be used to track positions when executing
* text edits. Additionally a copying range marker stores a local copy of the
* text it captures when it gets executed.
*
* @since 3.0
*/
public final class CopyingRangeMarker extends TextEdit {

private String fText;

/**
* Creates a new <tt>CopyRangeMarker</tt> for the given
* offset and length.
*
public CopyingRangeMarker(int offset, int length) {
    super(offset, length);
}

private CopyingRangeMarker(CopyingRangeMarker other) {
    super(other);
    fText= other.fText;
}

protected TextEdit doCopy() {
    return new CopyingRangeMarker(this);
}

protected void accept0(TextEditVisitor visitor) {
    boolean visitChildren = visitor.visit(this);
    if (visitChildren) {
        acceptChildren(visitor);
    }
}

/* package */ int performDocumentUpdating(IDocument document) throws BadLocationException {
    fText= document.get(getOffset(), getLength());
    fDelta= 0;
    return fDelta;
}

/* package */ boolean deleteChildren() {
    return false;
}
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Source Files
------------

The file `src/libs/snprintf/snprintf.c', written by Mark Martinec <mark.martinec@ijs.si>.

Please look into snprintf.c for the copyright message.
The complete snprintf package together with documentation is available from
http://www.ijs.si/software/snprintf/. The `grn' preprocessor, written by Barry Roitblat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.

The original package can be found at

src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp

The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
Macro Packages
--------------

. The -mdoc macro set, using the BSD license.

  tmac/doc.tmac
  tmac/doc-old.tmac
  tmac/doc-common
  tmac/doc-ditroff
  tmac/doc-nroff
  tmac/doc-syms
  tmac/groff_mdoc.man

. The -me macro set, using the BSD license.

  tmac/e.tmac
  tmac/groff_me.man
  doc/meintro.me
  doc/meintro_fr.me
  doc/meref.me

Hyphenation Patterns
---------------------

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of the TeX system written by Donald E. Knuth; the master file can be found at

  ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

It has been renamed for consistency, i.e., to make patterns available under the filenames `hyphen.<language>', e.g. `hyphen.de' or `hyphen.uk'.

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. The file `tmac/hyphen.fr' contains the same patterns as the file
`frhyp.txt' (for TeX), which can be found at

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The file `tmac/hyphen.sv' is identical to the file `svhyph.txt', which can be found at

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The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyphn.txt' and `dehyph.t' (for TeX), which can be found at

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http://dante.ctan.org/CTAN/language/hyphenation/dehyph.t

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The file `tmac/hyphenex.det' is identical to the file `dehyph.t', which can be found at

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The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.txt' (for TeX), which can be found in the archive

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1.500 wso2-carbon-sequences-stub 4.6.105

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1.501 vertx-jooq-generate 4.2.0

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1.503 perl 5.26.3-416.el8
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---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>''
  - "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-
build@perl.org>,"
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
license: http://dev.perl.org/licenses/
repository: http://github.com/dagolden/module-build/
version: 3

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

=head1 NAME
copyright.t

=head1 DESCRIPTION
Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so # that tests still pass for people intentionally working on older versions:
if ($opt eq '--now') {
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else {
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
sub readme_year
    # returns the latest copyright year from the top-level README file
    {
        open my $readme, '<', '../README' or die "Opening README failed: $!";

        # The copyright message is the first paragraph:
        local $/ = "";
        my $copyright_msg = <$readme>;

        my ($year) = $copyright_msg =~ /.*(\d{4,})/s
            or die "Year not found in README copyright message '$copyright_msg'";

        $year;
    }

sub v_year
    # returns the latest copyright year shown in perl -v
    {
        my $output = runperl switches => ['-v'];
        my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
            or die "Copyright statement not found in perl -v output '$output'";

        $year;
    }

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1.504 cxf-rt-rs-service-description 3.1.16

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1.509 mitchellh-mapstructure 1.13.1-103.git7f2769b.el7.centos

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Gocheck - A rich testing framework for Go

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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

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https://github.com/golang/protobuf

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 */

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import java.io.Serializable;

/**
 * Base permission description
 * @see OAuthAuthorizationData
 */

public class Permission implements Serializable {

    private static final long serialVersionUID = 8988574955042726083L;
    private String permission;
    private String description;
    private boolean isDefault;

    public Permission() {

    }

    public Permission(String permission, String description) {
        this.description = description;
        this.permission = permission;
    }

    /**
     * Gets the permission description
     * @return the description
     */
    public String getDescription() {
        return description;
    }

    public Permission(String permission, String description) {
        this.description = description;
        this.permission = permission;
    }

    /**
     * Gets the permission description
     * @return the description
     */
    public String getDescription() {
        return description;
    }
/**
 * Sets the permission description
 * @param description
 */
public void setDescription(String description) {
    this.description = description;
}

/**
 * Get the permission value such as "read_calendar"
 * @return the value
 */
public String getPermission() {
    return permission;
}

/**
 * Sets the permission value such as "read_calendar"
 * @param permission the permission value
 */
public void setPermission(String permission) {
    this.permission = permission;
}

/**
 * Indicates if this permission has been allocated by default or not.
 * Authorization View handlers may use this property in order to restrict
 * the list of scopes which may be refused to non-default scopes only.
 * For example, the read-only check-box controls can be used to represent
 * the default scopes
 * @param isDefault true if the permission has been allocated by default
 */
public void setDefault(boolean value) {
    this.isDefault = value;
}

public boolean isDefault() {
    return isDefault;
}

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public@interface EPL_1_0 {}
public @interface MIT_1_0 {}

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public @interface GPL_3_0 {}
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Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $
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@BundleLicense(name = "http://opensource.org/licenses/MPL-2.0", link = "http://www.mozilla.org/MPL/2.0/", description = "Mozilla Public License 2.0")
public @interface MPL_2_0 {}

"VW&X&Y&Z
V[
&\&]`
`
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********************************************************************************/

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LGPL_2_1.javaRuntimeInvisibleAnnotations,LaQute/bnd/annotation/headers/BundleLicense;name(http://opensource.org/licenses/LGPL-2.1,link)http://www.gnu.org/licenses/lgpl-2.1.html
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public @interface LGPL_2_1 {

}

2
SourceFileBSD_2_Clause.javaRuntimeInvisibleAnnotations,LaQute/bnd/annotation/headers/BundleLicense;name(http://opensource.org/licenses/BSD-2-Clause,link)http://en.wikipedia.org/wiki/BSD_licenses
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public @interface BSD_2_Clause {

}

2
SourceFileMIT_1_0.javaRuntimeInvisibleAnnotations,LaQute/bnd/annotation/headers/BundleLicense;name(http://opensource.org/licenses/MIT,link)http://en.wikipedia.org/wiki/MIT_License
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 * An annotation to indicate that the type depends on the MIT License
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rWS does not support
clone()S?Kjava/lang/RuntimeException10$org/apache/maven/model/InputLocation/030409020MNjava/lang/Object
java/io/Serializablejava/Clonable+org/apache/maven/model/InputLocationTracker$java/lang/CloneNotSupportedException
java/util/Listadd(Ljava/lang/Object;)Zadmin(;;<=7>?@A/*BCDEFGAM*+,WB
a
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

```java
package aQute.bnd.annotation.headers;

import java.lang.annotation.*;

/**
 * The Bundle-License header provides an optional machine readable form of
 * license information. The purpose of this header is to automate some of the
 * license processing required by many organizations like for example license
 * acceptance before a bundle is used. The header is structured to provide the
 * use of unique license naming to merge acceptance requests, as well as links
 * to human readable information about the included licenses. This header is
 * purely informational for management agents and must not be processed by the
 * OSGi Framework.
 * <p>
 * The syntax for this header is as follows:
 * <pre>
 * Bundle-License ::= &lt;&lt;EXTERNAL&gt;&gt; |
 * ( license ( , license ) * )
 * license ::= name ( ; license-attr ) *
 * license-attr ::= description | link
 * description ::= description = string
 * link ::= link = &lt;url&gt;
 * </pre>
 * <p>
 * This header has the following attributes:
 * <ul>
 * <li><code>name</code> Provides a globally unique name for this license, preferably world
 * wide, but it should at least be unique with respect to the other clauses. The
 * magic name &lt;&lt;EXTERNAL&gt;&gt; is used to indicate that this artifact does not
 * contain any license information but that licensing information is provided in
 * some other way. This is also the default contents of this header.
 * <li>Clients of this bundle can assume that licenses with the same name refer
 * to the same license. This can for example be used to minimize the click
 */
```
* through licenses. This name should be the canonical URL of the license, it
* must not be localized by the translator. This URL does not have to exist but
* must not be used for later versions of the license. It is recommended to use
* URLs from <a href="http://opensource.org/">Open Source Initiative</a>. Other
* licenses should use the following structure, but this is not mandated:
* 
*  <pre>
*    http://<domain-name>/licenses/
*          <license-name>-<version>.<extension>
*  </pre>
*  
* <li>description (optional) Provide the description of the license. This is
* a short description that is usable in a list box on a UI to select more
* information about the license.
* <li>link (optional) Provide a URL to a page that defines or explains the
* license. If this link is absent, the name field is used for this purpose. The
* URL is relative to the root of the bundle. That is, it is possible to refer
* to a file inside the bundle.
* </ul>
* If the Bundle-License statement is absent, then this does not mean that the
* bundle is not licensed. Licensing could be handled outside the bundle and the
* [@code <<EXTERNAL>>] form should be assumed. This header is informational and
* may not have any legal bearing. Consult a lawyer before using this header to
* automate licensing processing.
* <p>
* A number of licenses have been predefined, [@link ASL_2_0],
* [@link BSD_2_Clause], [@link BSD_3_Clause], [@link CDDL_1_0], [@link EPL_1_0], [@link GPL_2_0],
* [@link GPL_3_0], [@link LGPL_2_1], [@link MIT_1_0],
* [@link MPL_2_0].
* /@
* @Retention(RetentionPolicy.CLASS)
* @Target({
* ElementType.ANNOTATION_TYPE, ElementType.TYPE
* })
* public @interface BundleLicense {
**
* The name of the license, should refer to <a
* href="http://opensource.org/">Open Source Initiative</a>
*/
* String name();

**
* A short description of the license
*/
* String description() default "";

**
* A URI to the license text. This maybe relative, in that case it is from
* the corresponding bundle.
/*
 * An annotation to indicate that the type depends on the Common Development and Distribution license. Applying this annotation will add a Bundle-License clause.
 */

@BundleLicense(name = "http://opensource.org/licenses/CDDL-1.0", link = "http://en.wikipedia.org/wiki/Common_Development_and_Distribution_License", description = "Common Development and Distribution License 1.0")
public @interface CDDL_1_0 {}
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*/
JUnit

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1.521 gnutls 3.6.14-5.el8

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Constant-time SSSE3 AES core implementation.

version 0.1

By Mike Hamburg (Stanford University), 2009

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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.

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/**
* Poly1305 message authentication code, designed by D. J. Bernstein.
* <p>
* Poly1305 computes a 128-bit (16 bytes) authenticator, using a 128 bit nonce and a 256 bit key
* consisting of a 128 bit key applied to an underlying cipher, and a 128 bit key (with 106
* effective key bits) used in the authenticator.
* <p>
* The polynomial calculation in this implementation is adapted from the public domain <a
* href="https://github.com/floodyberry/poly1305-donna">poly1305-donna-unrolled</a> C implementation
* by Andrew M (@floodyberry).
* @see Poly1305KeyGenerator
*/

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Version 2.1, February 1999

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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.
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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.
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-----------

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

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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History
-------

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1.541.1 Available under license:

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Version 2.1, February 1999

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1.542 lib-pq 1.3.0

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1.547 mergo 0.3.9

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

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der/io/netty/handler/codec/http/HttpCookieEncoder.java
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Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers, as well as supported
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**Open Source Used In Connected-Pharma 1.5-UI & ServiceLayer**

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org.wso2.carbon.authenticator.stub_4.4.35.jar
org.wso2.carbon.base_4.4.35.jar
org.wso2.carbon.bootstrap-4.4.35.jar
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org.wso2.carbon.core.services_4.4.35.jar
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shortValue()S！”#%&’()*+,-./0123456789::;<=>,?@ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUV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CDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJ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Preamble

Open Source Used In Connected-Pharma 1.5-UI & ServiceLayer 6003


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carbonContext1Lorg/wso2/carbon/context/PrivilegedCarbonContext;eLjava/lang/Exception;event
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SourceFileManagementPermissionsAdder.java-.carbon.superABjava/lang/Exception+,java/lang/StringBuilder6Error
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0_ has no copyright%()I()V()Z<init>CodeLineNumberTableLocalVariableTable
SourceFile[ERROR]
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```java
applyUmask(Lorg/apache/hadoop/fs/permission/FsPermission;)Lorg/apache/hadoop/fs/permission/FsPermission;
readFields(Ljava/io/DataInput;)V
Exceptions$
```

```java
applyUmask(Lorg/apache/hadoop/fs/permission/FsPermission;)Lorg/apache/hadoop/fs/permission/FsPermission;
readFields(Ljava/io/DataInput;)V
```

```java
getActions()Ljava/lang/String;
```

```java
<transaction>

```
ermission(Ljava/lang/String;)Vjava/lang/ObjectgetClass()Ljava/lang/Class;!5*

P*+

@-
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2

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getResourceId(Ljava/lang/String;getAction
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Open Source Used In Connected-Pharma 1.5-UI & ServiceLayer 6063

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org.wso2.carbon.identity.base_4.2.2.jar | bundle | apache2 | 3404
org.wso2.carbon.identity.core_4.2.4.jar | bundle | apache2 | 3773
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org.wso2.carbon.identity.oauth.ui_4.2.3.jar | bundle | apache2 | 3347
org.wso2.carbon.identity.oauth_4.2.4.jar | bundle | apache2 | 3772
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org.wso2.carbon.idp.mgt.ui_4.2.1.jar | bundle | apache2 | 3320
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org.wso2.carbon.jasper.patch_4.2.0.jar | bundle | apache2 | 2043
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org.wso2.carbon.logging.view.ui_4.2.1.jar | bundle | apache2 | 2560
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org.wso2.carbon.mashup.javascript.hostobjects.registry_4.2.0.jar | bundle | apache2 | 2120
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- org.wso2.carbon.mashup.utils_4.2.0.jar
- org.wso2.carbon.mediation.configadmin.stub_4.2.0.jar
- org.wso2.carbon.mediation.configadmin.ui_4.2.0.jar
- org.wso2.carbon.mediation.configadmin_4.2.0.jar
- org.wso2.carbon.mediation.dependency.mgt_4.2.0.jar
- org.wso2.carbon.mediation.initializer.ui_4.2.0.jar
- org.wso2.carbon.mediation.registry_4.2.1.jar
- org.wso2.carbon.mediation.security.stub_4.2.0.jar
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- org.wso2.carbon.mediation.statistics.stub_4.2.0.jar
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- org.wso2.carbon.proxyadmin_4.2.3.jar
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- org.wso2.carbon.queueing_4.2.0.jar
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java.lang.String description
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setDescription(Ljava/lang/String;)

Permission.java

org/apache/cxf/rs/security/oauth2/common/Permission.java

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Mountain View, CA 94040
USA
By Phone: (+1) 408 754 7388
By Fax: (+1) 617 314 6812
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As a condition to using certain Services, WSO2 may require to set up a user name and password as set forth in the account registration procedure on the Site. You will provide WSO2 with true, accurate, current and complete information. You may not use anyone else's password. You are solely responsible for maintaining the confidentiality of your account and password. You will promptly update your registration to keep it accurate, current and complete. You agree to immediately notify WSO2 of any unauthorized use of your password or accounts or any other breach of security. You also agree to sign out from your accounts at the end of each session. WSO2 will not be responsible for any loss or damage that may result if you fail to comply with these requirements.

Where you are provided with a administrator user ID and password for accessing the Services, you will be required to assign it to your administrator. You will be responsible through your administrator, for authorizing and terminating individual user IDs and passwords and setting and modifying your and your users profiles and preferences for the Services and specifying the access rights of the individual users to the Services. The administrator may change the administrators or a users ID by contacting WSO2.

You will be responsible for all activity occurring under your accounts and will comply with all applicable local, state and foreign laws, treaties and regulations in connection with your use of the Services, including without limitation, laws and regulations governing data privacy, international communications and transmission of technical or personal data.

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F. Fees

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G. Termination of Services

The Services you have registered for shall be automatically renewed for another Term unless you have notified WSO2 30 days prior to the end of the Term of your intention to terminate. Fees at the time of automatic renewal will be at the rates current at the time of such renewal.

Notwithstanding the above, WSO2 reserves the right to terminate the Services and your account in the event of a

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2. failure to pay any applicable fees when due.

Upon termination of the Services due to a breach or default on your part, WSO2 will have no obligation to refund to you any fees paid by you. Notwithstanding the above, in the event your access is terminated for whatever reason, WSO2 will make available a file with your data within 30 days of termination if you so request at the time of termination. In the event WSO2 ceases to operate the Services, pre-paid subscription fees, if any, for the remaining months where you no longer have access to the Services will be refunded to you.
You may discontinue your use of the Services at any time. WSO2 reserves the right to terminate any account or Services at any time in its sole discretion, including a period of account inactivity. Termination will not relieve you from the obligation to pay fees unpaid.

H. Indemnification

You agree to defend, indemnify and hold harmless WSO2, its subsidiaries, affiliates, partners, officers, agents, suppliers and employees from and against any third party claim arising from or in connection with your use of the Site and/or the Services from all claims, liabilities, costs and expenses including litigation costs and attorneys fees.

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K. Release

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M. Miscellaneous

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* To process transactions your information, whether public or private, will not be sold, exchanged, transferred or given to any other entity for any reason whatsoever without your consent, other than for the sole purpose of delivering the purchased service requested by you.
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2(
LOGIN_TO_ADMIN_UI.java!java/lang/String;
ConstantValue!MANAGE_SYSTEM_CONFIGURATION"MANAGE_SECURITY#UPLOAD_SERVICES$MAN
AGE_SERVICES%MANAGE_MEDIATION"<init>(;VCodeLineNumberTableLocalVariableTablethis
PermissionInnerClasses,Lorg/wso2/carbon/CarbonConstants$Permission;
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/*7

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~ KIND, either express or implied. See the License for the
~ specific language governing permissions and limitations
~ under the License.
-->
String backendServerURL = CarbonUIUtil.getServerURL(config.getServletContext(), session);
ConfigurationContext configContext = (ConfigurationContext) config.getServletContext().getAttribute(CarbonConstants.CONFIGURATION_CONTEXT);
String cookie = (String) session.getAttribute(ServerConstants.ADMIN_SERVICE_COOKIE);
ProvisioningAdminClient provAdminClient;
LicenseInfo[] licenses;

try {
    provAdminClient = new ProvisioningAdminClient(cookie, backendServerURL, configContext, request.getLocale());
    licenses = provAdminClient.getLicensingInformation();
} catch (Exception e) {
    <p id="compMgtErrorMsg"><%=e.getMessage()%></p>
    return;
}

<fmt:bundle basename="org.wso2.carbon.feature.mgt.ui.i18n.Resources">
<table class="styledLeft" cellspacing="1" width="100%" id="_table_af_review_licenses_list"
    style="margin-left: 0px;">
    <thead>
        <tr>
            <th><H4><strong><fmt:message key="licence.agreements"/></strong></H4></th>
        </tr>
    </thead>
    <tbody>
        <tr>
            <td>
                <table class="normal" cellspacing="1" width="100%" id="_table_add_repository_link"
                    style="margin-left: 0px;">
                    <tbody>
                        <tr><td><font color="#707277"><i><fmt:message key="licence.agreements.description"/></i></font></td></tr>
                        <tr><td><font color="#707277">%&lt;/i%></font></td></tr>
                    </tbody>
                </table>
            </td>
        </tr>
    </tbody>
</table>
</fmt:bundle>
for(LicenseInfo license: licenses){
  <%>
  <tr>
    <td>
      <textarea name="sdfsdl" cols="80" rows="20"
                     width="100%" readonly="true" class="myformat">
          <%=license.getBody()%></textarea>
    </td>
  </tr>
  </%
}

<tr>
  <td>
    <div>
      <br/>
      <input id="_radio_af_accept_licenses" value="accept" name="accept-decline-af"
             class="toolsClass" type="radio"
             onclick="doAcceptLicenses()"&nbsp;&nbsp;&nbsp;<fmt:message
key="licence.accept.text"/>
      <br/>
      <input id="_radio_af_decline_licenses" value="decline" name="accept-decline-af"
             class="toolsClass" checked="checked" type="radio"
             onclick="doDeclineLicenses()"&nbsp;&nbsp;&nbsp;<fmt:message
key="licence.decline.text"/>
    </div>
  </td>
</tr>

<% else { //TODO if there are no license specified
} %>
</tbody>
</table>
</td>
</tr>
<tr class="buttonRow">
  <input value="&lt;fmt:message key="back.button"/"" tabindex="11" type="button"
         class="button"
         onclick="doBack('RL-RF')"
         id="_btn_back_af_review_licenses"/>
  <input value="&lt;fmt:message key="next.button"/"" tabindex="11" type="button"
         class="button" disabled="true"
         onclick="doFinish('IF')"
         id="_btn_finish_af_review_licenses"/>
  <input value="&lt;fmt:message key="cancel.button"/"" tabindex="11" type="button"
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nameLjava/lang/String;5(Ljava/lang/String;Ljava/lang/String;)V
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d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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

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1.572 woodstox-core 5.0.0

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The End

1.575 findutils 4.6.0-20.el8

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// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL   string `json:"url,omitempty"`
}
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1.589 joda-time 2.9.4.wso2v1

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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%:o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%:o: $(srcdir)/%.cpp
## Dependency rules

### Dependency rules

%.d: $(srcdir)/%.c
@echo "generating dependency information for "$<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed \"s/(\$\%)/\.o [:]*/\1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@’

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for "$<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed \"s/(\$\%)/\.o [:]*/\1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@’

## Versioned libraries rules

%.%(SO).%(SO_TARGET_VERSION_MAJOR): %.%(SO).%(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@

%.%(SO): %.%(SO).%(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.%(SO).%(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

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

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

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1.605 wso2-carbon-registry-extensions-stub

4.6.3

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1.610 wso2-carbon-security-mgt-stub

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1.613 perl-scalar-list-utils 1.49-2.el8

1.613.1 Available under license:

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=head1 NAME

Scalar::Util - A selection of general-utility scalar subroutines

=head1 SYNOPSIS

use Scalar::Util qw(blessed dualvar isdual readonly refaddr reftype
tainted weaken isweak isvstring looks_like_number
set_prototype);
# and other useful utils appearing below

=head1 DESCRIPTION

C<Scalar::Util> contains a selection of subroutines that people have expressed would be nice to have in the perl core, but the usage would not really be high enough to warrant the use of a keyword, and the size would be so small that being individual extensions would be wasteful.

By default C<Scalar::Util> does not export any subroutines.

=cut

=head1 FUNCTIONS FOR REFERENCES
The following functions all perform some useful activity on reference values.

=head2 blessed

my $pkg = blessed( $ref );

If C<$ref> is a blessed reference, the name of the package that it is blessed into is returned. Otherwise C<undef> is returned.

$scalar = "foo";
$class = blessed $scalar;      # undef

$ref = [];                           # undef
$class = blessed $ref;             # undef

$obj = bless [], "Foo";
$class = blessed $obj;             # "Foo"

Take care when using this function simply as a truth test (such as in C<if(blessed $ref)...>) because the package name C<"0"> is defined yet false.

=head2 refaddr

my $addr = refaddr( $ref );

If C<$ref> is reference, the internal memory address of the referenced value is returned as a plain integer. Otherwise C<undef> is returned.

$addr = refaddr "string";         # undef
$addr = refaddr $var;             # eg 12345678
$addr = refaddr [];               # eg 23456784

$obj = bless {}, "Foo";
$addr = refaddr $obj;             # eg 88123488

=head2 reftype

my $type = reftype( $ref );

If C<$ref> is a reference, the basic Perl type of the variable referenced is returned as a plain string (such as C<ARRAY> or C<HASH>). Otherwise C<undef> is returned.

$type = reftype "string";         # undef
$type = reftype $var;             # SCALAR
$type = reftype [];               # ARRAY

$obj = bless {}, "Foo";
$type = reftype $obj;               # HASH

=head2 weaken

weaken( $ref );

The lvalue C<$ref> will be turned into a weak reference. This means that it
will not hold a reference count on the object it references. Also, when the
reference count on that object reaches zero, the reference will be set to
undef. This function mutates the lvalue passed as its argument and returns no
value.

This is useful for keeping copies of references, but you don't want to prevent
the object being DESTROY-ed at its usual time.

{  
  my $var;
  $ref = \$var;
  weaken($ref);       # Make $ref a weak reference
}
# $ref is now undef

Note that if you take a copy of a scalar with a weakened reference, the copy
will be a strong reference.

my $var;
my $foo = \$var;
weaken($foo);       # Make $foo a weak reference
my $bar = $foo;      # $bar is now a strong reference

This may be less obvious in other situations, such as C<grep()>, for instance
when grepping through a list of weakened references to objects that may have
been destroyed already:

@object = grep { defined } @object;

This will indeed remove all references to destroyed objects, but the remaining
references to objects will be strong, causing the remaining objects to never be
destroyed because there is now always a strong reference to them in the @object
array.

=head2 unweaken

unweaken( $ref );

I<Since version 1.36.>

The lvalue C<REF> will be turned from a weak reference back into a normal
(strong) reference again. This function mutates the lvalue passed as its argument and returns no value. This undoes the action performed by L</weaken>.

This function is slightly neater and more convenient than the otherwise-equivalent code

    my $tmp = $REF;
    undef $REF;
    $REF = $tmp;

(because in particular, simply assigning a weak reference back to itself does not work to unweaken it; C<$REF = $REF> does not work).

=head2 isweak

my $weak = isweak( $ref );

Returns true if C<$ref> is a weak reference.

    $ref = \$foo;
    $weak = isweak($ref);         # false
    weaken($ref);
    $weak = isweak($ref);         # true

B<NOTE>: Copying a weak reference creates a normal, strong, reference.

    $copy = $ref;
    $weak = isweak($copy);        # false

=head1 OTHER FUNCTIONS

=head2 dualvar

my $var = dualvar( $num, $string );

Returns a scalar that has the value C<$num> in a numeric context and the value C<$string> in a string context.

    $foo = dualvar 10, "Hello";
    $num = $foo + 2;              # 12
    $str = $foo . " world";      # Hello world

=head2 isdual

my $dual =isdual( $var );

If C<$var> is a scalar that has both numeric and string values, the result is true.

```perl
$foo = dualvar 86, "Nix";
$dual = isdual($foo);   # true
```

Note that a scalar can be made to have both string and numeric content through numeric operations:

```perl
$foo = "10";
$dual = isdual($foo);   # false
$bar = $foo + 0;
$dual = isdual($foo);   # true
```

Note that although C<$!> appears to be a dual-valued variable, it is actually implemented as a magical variable inside the interpreter:

```perl
$! = 1;
print("$!
");   # "Operation not permitted"
$dual = isdual($!);   # false
```

You can capture its numeric and string content using:

```perl
$err = dualvar $!, $!;
$dual = isdual($err);   # true
```

=head2 isvstring

```perl
my $vstring = isvstring( $var );
```

If C<$var> is a scalar which was coded as a vstring, the result is true.

```perl
$vs  = v49.46.48;
$fmt = isvstring($vs) ? "%vd" : "%s"; #true
printf($fmt,$vs);
```

=head2 looks_like_number

```perl
my $isnum = looks_like_number( $var );
```

Returns true if perl thinks C<$var> is a number. See L<perlapi/looks_like_number>.

=head2 openhandle

```perl
my $fh = openhandle( $fh );
```
Returns \texttt{C<$fh> itself if C<$fh> may be used as a filehandle and is open, or is}

\texttt{is a tied handle. Otherwise C<undef> is returned.}

\begin{verbatim}
$fh = openhandle(*STDIN);       # *STDIN
$fh = openhandle(*STDIN);       # *STDIN
$fh = openhandle(*NOTOPEN);     # undef
$fh = openhandle("scalar");    # undef
\end{verbatim}

=head2 readonly

my $ro = readonly( $var );

Returns true if \texttt{C<$var> is readonly.}

sub foo { readonly($_[0]) }

$readonly = foo($bar);        # false
$readonly = foo(0);           # true

=head2 set_prototype

my $code = set_prototype( $code, $prototype );

Sets the prototype of the function given by the \texttt{C<$code> reference, or deletes}

\texttt{it if C<$prototype> is C<undef>}. Returns the \texttt{C<$code> reference itself.}

set_prototype \&foo, '$$';

=head2 tainted

my $t = tainted( $var );

Return true if \texttt{C<$var> is tainted.}

$taint = tainted("constant");    # false
$taint = tainted($ENV{PWD});     # true if running under -T

=head1 DIAGNOSTICS

Module use may give one of the following errors during import.

=over

=item Weak references are not implemented in the version of perl

The version of perl that you are using does not implement weak references, to
use \texttt{L</isweak> or \texttt{L</weaken> you will need to use a newer release of perl.}
=item Vstrings are not implemented in the version of perl

The version of perl that you are using does not implement Vstrings, to use L</isvstring> you will need to use a newer release of perl.

=back

=head1 KNOWN BUGS

There is a bug in perl5.6.0 with UV's that are >= 1<<31. This will show up as tests 8 and 9 of dualvar.t failing

=head1 SEE ALSO

L<List::Util>

=head1 COPYRIGHT

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Additionally L</weaken> and L</isweak> which are

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---

abstract: 'Common Scalar and List utility subroutines'
author:
  - 'Graham Barr <gbarr@cpan.org>
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 0
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Scalar-List-Utils
no_index:
directory:
  - t
  - inc
requires:
  Test::More: '0'
  perl: '5.006'
resources:
  repository: https://github.com/Scalar-List-Utils/Scalar-List-Utils.git
  version: '1.49'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

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This distribution is a replacement for the builtin distribution.

This package contains a selection of subroutines that people have expressed would be nice to have in the perl core, but the usage would not really be high enough to warrant the use of a keyword, and the size so small such that being individual extensions would be wasteful.

After unpacking the distribution, to install this module type

    perl Makefile.PL
    make
make test
make install

KNOWN BUGS

There is a bug in perl5.6.0 with UV's that are >= 1<<31. This will show up as tests 8 and 9 of dualvar.t failing

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=head1 NAME

List::Util::XS - Indicate if List::Util was compiled with a C compiler

=head1 SYNOPSIS

use List::Util::XS 1.20;

=head1 DESCRIPTION

C<List::Util::XS> can be used as a dependency to ensure List::Util was installed using a C compiler and that the XS version is installed.

During installation C<$List::Util::XS::VERSION> will be set to C<undef> if the XS was not compiled.

Starting with release 1.23_03, Scalar-List-Util is B<always> using the XS implementation, but for backwards compatibility, we still ship the C<List::Util::XS> module which just loads C<List::Util>.

=head1 SEE ALSO

L<Scalar::Util>, L<List::Util>, L<List::MoreUtils>

=head1 COPYRIGHT

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=head1 KNOWN BUGS

=head2 RT #95409

L<https://rt.cpan.org/Ticket/Display.html?id=95409>

If the block of code given to L</pairmap> contains lexical variables that are captured by a returned closure, and the closure is executed after the block has been re-used for the next iteration, these lexicals will not see the correct values. For example:

my @subs = pairmap {
    my $var = "$a is $b";
    sub { print "$var
"};
} one => 1, two => 2, three => 3;

$_->() for @subs;

Will incorrectly print

three is 3
three is 3
three is 3

This is due to the performance optimisation of using C<MULTICALL> for the code block, which means that fresh SVs do not get allocated for each call to the block. Instead, the same SV is re-assigned for each iteration, and all the closures will share the value seen on the final iteration.
To work around this bug, surround the code with a second set of braces. This creates an inner block that defeats the C<MULTICALL> logic, and does get fresh SVs allocated each time:

```perl
my @subs = pairmap {
    { my $var = "$a is $b";
      sub { print "$var\n"; } }
} one => 1, two => 2, three => 3;
```

This bug only affects closures that are generated by the block but used afterwards. Lexical variables that are only used during the lifetime of the block's execution will take their individual values for each invocation, as normal.

=head2 uniqnum() on oversized bignums

Due to the way that C<uniqnum()> compares numbers, it cannot distinguish differences between bignums (especially bigints) that are too large to fit in the native platform types. For example,

```perl
my $x = Math::BigInt->new( "1" x 100 );
my $y = $x + 1;

say for uniqnum( $x, $y );
```

Will print just the value of C<$x>, believing that C<$y> is a numerically-equivalent value. This bug does not affect C<uniqstr()>, which will correctly observe that the two values stringify to different strings.

=head1 SUGGESTED ADDITIONS

The following are additions that have been requested, but I have been reluctant to add due to them being very simple to implement in perl

```perl
sub true { scalar grep { $_ } @_ }

sub false { scalar grep { !$_ } @_ }
```

=head1 SEE ALSO

L<Scalar::Util>, L<List::MoreUtils>
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Recent additions and current maintenance by
Paul Evans, <leonerd@leonerd.org.uk>.

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/*

*/

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ppport.h -- Perl/Pollution/Portability Version 3.19_02

Automatically created by Devel::PPPort running under perl 5.010000.

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

=pod

=head1 NAME
perl ppport.h [options] [source files]

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

--help  show short help
--version  show version
--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
--strip  strip all script and doc functionality from ppport.h
--list-provided  list provided API
--list-unsupported  list unsupported API
--api-info=name  show Perl API portability information

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.11.5.
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. Note that this does not automatically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

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<ppport.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<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.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.
Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

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

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.

Strip all script and documentation functionality from \F<ppport.h>. This reduces the size of \F<ppport.h> dramatically and may be useful if you want to include \F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped \F<ppport.h> will have a \C<--unstrip> option that allows you to undo the stripping, but only if an appropriate \C<Devel::PPPort> module is installed.

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 or warnings for it.

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.

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

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.
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.

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 or variables 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>es in your source code before the inclusion of F<ppport.h>.

These functions or variables 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 or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

    #define NEED_function
    #define NEED_variable

For a global function or variable (used in multiple source files), use:

    #define NEED_function_GLOBAL
    #define NEED_variable_GLOBAL

Note that you mustn't have more than one global request for the
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<br>`<DPPP_NAMESPACE>` macro. Just C<br>`#define` the macro before including C<br>`ppport.h`:  

```c
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C<br>`DPPP_`.  

The good thing is that most of the above can be checked by running

---

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<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
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<tbody>
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<td>NEED_sv_setpvf_mg_nocontext_GLOBAL</td>
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<td>vload_module()</td>
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<td>vnewSVpvf()</td>
<td>NEED_vnewSVpvf</td>
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<tr>
<td>warner()</td>
<td>NEED_warner</td>
<td>NEED_warner_GLOBAL</td>
</tr>
</tbody>
</table>
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.

If you want to create patched copies of your files instead, use:

 perl ppport.h --copy=.new

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
Version 3.x, Copyright (c) 2004-2010, Marcus Holland-Moritz.
Version 2.x, Copyright (C) 2001, Paul Marquess.
Version 1.x, Copyright (C) 1999, Kenneth Albanowski.
This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.
=head1 SEE ALSO
See L<Devel::PPPort>.
=cut
use strict;
# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }
my $VERSION = 3.19_02;
my %opt = (
quiet => 0,
diag
=> 1,
hints => 1,
changes => 1,
cplusplus => 0,
filter => 1,
strip => 0,
version => 0,
);
my($ppport) = $0 =~ /([\w.]+)$/;
my $LF = '(?:\r\n|[\r\n])'; # line feed
my $HS = "[ \t]";
# horizontal whitespace
# Never use C comments in this file!
my $ccs = '/'.'*';
my $cce = '*'.'/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;
eval {
require Getopt::Long;
Getopt::Long::GetOptions(\%opt, qw(
help quiet diag! filter! hints! changes! cplusplus strip version

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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";
}

if ($opt{version}) {
    print "This is $0 $VERSION.\n";
    exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

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;
}

my %API = map { /^\w+\|[^\|]*\|[^\|]*\|\w*$/ 
    ? ( $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( AvFILLp|5.004050||p AvFILL|| CLASS||n CPERLscope|5.005000||p CX_CURPAD_SAVE|| CX_CURPAD_SV|| CopFILEAV|5.006000||p CopFILEGV_set|5.006000||p)
CopFILEGV[5.006000]|p
CopFILESV[5.006000]|p
CopFILE_set[5.006000]|p
CopFILE[5.006000]|p
CopSTASHPV_set[5.006000]|p
CopSTASHPV[5.006000]|p
CopSTASH_eq[5.006000]|p
CopSTASH_set[5.006000]|p
CopSTASH[5.006000]|p
CopyD[5.009002]|p
Copy]||
CvPADLIST]||
CvSTASH]||
CvWEAKOUTSIDE]||
DEFSV_set[5.010001]|p
DEFSV[5.004050]|p
END_EXTERN_C[5.005000]|p
ENTER]||
ERRSV[5.004050]|p
EXTEND]||
EXTERN_C[5.005000]|p
F0convert]||n
FREETMPS]||
GIMME_V[5.004000]|n
GIMME]||n
GROK_NUMERIC_RADIX[5.007002]|p
G_ARRAY]||
G_DISCARD]||
G_EVAL]||
G_METHOD[5.006001]|p
G_NOARGS]||
G_SCALAR]||
G_VOID[5.004000]|p
GetVars]||
GvSVn[5.009003]|p
GvSV]||
Gv_AMupdate[5.011000]
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HeHASH[5.004000]
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apply_attrs
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call_sv\[5.006000]\|p
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ck_exec||
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yyparse|||
yywarn|||
);
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, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}

Open Source Used In Connected-Pharma 1.5-UI & ServiceLayer 6573


$hint = [$1, [split '/s+/', $2]]
    if m{\s*srcs\s+\(\[\w+/;?\w+\]+\)\s+\$s+};

if ($define) {
    if ($define->[1] =~ /\$s+/) {
        $define->[1] = $s_;
    }
    else {
        if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\$/) {
            my @n = find_api($define->[1]);
            push @{$depends{$define->[0]}}, @n if @n
        }
        undef $define;
    }
}

$define = [$1, $2] if m{\s*\#define\s+\(\w+\)\s+\$s+;};

if ($function) {
    if (/\$/) {
        if (exists $API{$function->[0]}) {
            my @n = find_api($function->[1]);
            push @{$depends{$function->[0]}}, @n if @n
        }
        undef $function;
    }
    else {
        $function->[1] .= $_;
    }
}

$function = [$1, ''] if m{\s*DPPP_\(my_(\w+)\)\s+\$s+};

$replace     = $1 if m{\s*$rcce\s+Replace\s+\$s+;};
$replace{$2} = $1 if $replace and m{\s*\#define\s+\(\w+\)\s+\$s+;};
$replace{$2} = $1 if m{\s*$rcce\s+Replace\s+\$s+;};
$replace{$1} = $2 if m{\s*$rcce\s+Replace\s+\$s+;};

if (m{\s*$rcce\s+\$s+\$s+;}) {
    my @deps = map { s/\s+//g; S_ } split ';/, $3;
    my $d;
    for $d (map { s/\s+//g; S_ } split ';/, $1) {
        push @{$depends{$d}}, @deps;
    }
}

$need{$1} = 1 if m{\s*if\s+\$s+defined\(\$s+;?\w+\)\$s+;};

Open Source Used In Connected-Pharma 1.5-UI & ServiceLayer 6574
for (values %depends) {
    my %s;
    $_ = [sort grep !$s{$_}++, @$_];
}

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) {
        next unless $f =~ /$match/;
        print "\n=== $f ===\n\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(' ', @{$depends{$f}}), "\n" if exists $depends{$f};
            print "\nHints:$f " if exists $hints{$f};
            print "\nWARNING: $warnings$f" if exists $warnings{$f};
            $info++;
        }
        print "No portability information available.\n" unless $info;
        $count++;
    }
    $count or print "Found no API matching '$opt{'api-info'}'.\n";
    print "\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};
        push @flags, 'warning'  if exists $warnings{$f};
        my $flags = @flags ? '  [' . join(', ', @flags) . ']' : "";
        print "$f$flags\n";
    }
}
exit 0;
}
my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;
if (@ARGV) {
my %seen;
for (@ARGV) {
if (-e) {
if (-f) {
push @files, $_ unless $seen{$_}++;
}
else { warn "'$_' is not a file.\n" }
}
else {
my @new = grep { -f } glob $_
or warn "'$_' does not exist.\n";
push @files, grep { !$seen{$_}++ } @new;
}
}
}
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;
}

Open Source Used In Connected-Pharma 1.5-UI & ServiceLayer 6576


die "No input files given!\n" unless @files;
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> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;
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}) {
$file{uses_provided}{$func}++;

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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) {
        $file{needs}{'$_'} = 'static' if exists $need{'$_'};
    }
}

if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
    if ($c =~ /$func/) {
        $file{uses_todo}{$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;
        shift @t if @t;
        @targets = @t if @t;
        my $target = shift @targets;
    }
for $filename (@files) {
    exists $files{$filename} or next;

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

    my %file = %{$files{$filename}};
    my $func;
    my $c = $file{code};
    my $warnings = 0;

    for $func (sort keys %file{uses_Perl}) {
        if ($API{$func}{varargs}) {
            unless ($API{$func}{nothxarg}) {
                my $changes = ($c =~ s{\b(Perl_$func\s*(?!=aTHX_\?)\(\^?\$s\)?)*\(\^?\$s\)?)*}{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_' . $2 }ge);
                if ($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*(?!=aTHX_\?)\(\^?\$s\)?)*\(\^?\$s\)?}{ $func$1\{ }g);
            }
        }
    }

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

    for $func (sort keys %file{uses_provided}) {
        if ($file{uses}{$func}) {
            if (exists $file{uses_deps}{$func}) {
                diag("Uses $func, which depends on ", join(’,’, @{$file{uses_deps}{$func}}));
            }
            else {
                diag("Uses $func");
            }
        }
    }
}
unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ",
             format_version($API{$func}{todo}), ", even with "ppport\"n"
        $warnings++;
    }
}

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);
    }
}

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

if ($fileName) {
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");
    } else {
      diag("File needs $func, adding static request");
    }
    $pp .= '#define NEED_$func$suffix
  }
}

if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
  $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.\Q$s*?\E.*/$1$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!^//!!) {
    $cppc++;
    } elsif ($ccom[$ix] =~ s!^\$HS*\$HS*include\$Q$ppport\E.*/?SLF//m) {
      diag("File needs $func, adding static request");
      $pp .= '#define NEED_$func$suffix
    } else {
      diag("No need to include ‘$ppport’");
      $file{changes} += ($c =~ s/\$HS*\$HS*include\$Q$ppport\E.*/?SLF//m);
    }
}
$file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix$] $cce/;

} else {
    $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
}

} if ($cppc) {
    my $s = $cppc != 1 ? 's' : ';
    warning("Uses $cppc C++ style comment$s, which is not portable");
} my $s = $warnings != 1 ? 's' : ';
my $warn = $warnings ? " ($warnings warning$s) " : "
info("Analysis completed$warn");

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

else {
    my $s = $file{changes} == 1 ? "1" : 's';
    info("$file{changes} potentially required change$s detected");
}

else {
    info("Looks good");
}

close PATCH if $patch_opened;

exit 0;

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

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 try_use('Text::Diff')) {
        $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
        $diff = "--- $file
+++ $file.patched
HEA"
    }

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

sub rec_depend {
    my($func, $seen) = @_; 
    return () unless exists $depends{$func};


$seen = %{$seen||{}};
return () if $seen->{$func}++;
my %s;
grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
}

sub parse_version
{
my $ver = shift;

if ($ver =~ /^\d+.(\d+).(\d+)$/) {
    return ($1, $2, $3);
}
elif ($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";
    }
}

return ($r, $v, $s);
}
$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;
my %given_warnings;
sub hint
{
  $opt{quiet} and return;
  my $func = shift;
  my $rv = 0;
  if (exists $warnings{$func} && !$given_warnings{$func}++) {
    my $warn = $warnings{$func};
    $warn =~ s!^!*** !mg;
    print "*** WARNING: $func\n", $warn;
    $rv++;
  }
  if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {

my $hint = $hints{$func};
$hint =~ s/^/   /mg;
print "   --- hint for $func ---\n", $hint;
}
$rv;
}

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

sub strip {
my $self = do { local(@ARGV,$/)=($0); <> };
my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)\=\w+/ms;
$copy =~ s/^(?=\S+)/    /gms;
$self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
$self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if (@ARGV && $ARGV[0] eq '--unstrip') {
  eval { require Devel::PPPort }; \$@ and die "Cannot require Devel::PPPort, please install.\n";
  if (eval \$Devel::PPPort::VERSION < $VERSION) {
    die "$0 was originally generated with Devel::PPPort $VERSION.\n"
    . "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\n"
    . "Please install a newer version, or --unstrip will not work.\n"
  }
  Devel::PPPort::WriteFile($0);
  exit 0;
}
print <<END;
Sorry, but this is a stripped version of \$0.
To be able to use its original script and doc functionality,
Found in path(s):

1.614 log4j-api 2.13.3

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1.615 wso2-carbon-database-utils 2.0.6

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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 7.02, CPAN::Meta::Converter version 2.143240'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Pod-Escapes
no_index:
directory:
  - t
  - inc
requires:
  Exporter: '0'
  perl: '5.006'
  strict: '0'
  vars: '0'
  warnings: '0'
resources:
  repository: git://github.com/neilbowers/Pod-Escapes.git
version: '1.07'

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=head1 NAME

Pod::Escapes - for resolving Pod EE<lt>...E<gt> sequences

=head1 SYNOPSIS

use Pod::Escapes qw(e2char);
$text = e2char($e_node->label);  
unless(defined $text) {    
    print "Unknown E sequence \"", $e_node->label, "\"!";  
}  
...else print/interpolate $text...  

=head1 DESCRIPTION  

This module provides things that are useful in decoding Pod EE<lt>...E<gt> sequences. Presumably, it should be used only by Pod parsers and/or formatters.  

By default, Pod::Escapes exports none of its symbols. But you can request any of them to be exported. Either request them individually, as with  
C<use Pod::Escapes qw(symbolname symbolname2...);>, or you can do C<use Pod::Escapes qw(:ALL);> to get all exportable symbols.  

=head1 GOODIES  

=over  

=item e2char($e_content)  

Given a name or number that could appear in a C<EE<lt>name_or_numE<gt>> sequence, this returns the string that it stands for. For example, C<e2char('sol')>, C<e2char('47')>, C<e2char('0x2F')>, and C<e2char('057')> all return "/", because C<EE<lt>solE<gt>>, C<EE<lt>47E<gt>>, C<EE<lt>0x2fE<gt>>, and C<EE<lt>057E<gt>>, all mean "/". If the name has no known value (as with a name of "qacute") or is syntactically invalid (as with a name of "1/4"), this returns undef.  

=item e2charnum($e_content)  

Given a name or number that could appear in a C<EE<lt>name_or_numE<gt>> sequence, this returns the number of the Unicode character that this stands for. For example, C<e2char('sol')>, C<e2char('47')>, C<e2char('0x2F')>, and C<e2char('057')> all return 47, because C<EE<lt>solE<gt>>, C<EE<lt>47E<gt>>, C<EE<lt>0x2fE<gt>>, and C<EE<lt>057E<gt>>, all mean "/", whose Unicode number is 47. If the name has no known value (as with a name of "qacute") or is syntactically invalid (as with a name of "1/4"), this returns undef.  

=item $Name2character{I<name>}
Maps from names (as in C<EE<lt>I<name>E<gt>>) like "eacute" or "sol" to the string that each stands for. Note that this does not include numerics (like "64" or "x981c"). Under old Perl versions (before 5.7) you get a "?" in place of characters whose Unicode value is over 255.

=item $Name2character_number{I<name>}

Maps from names (as in C<EE<lt>I<name>E<gt>>) like "eacute" or "sol" to the Unicode value that each stands for. For example, C<$Name2character_number{'eacute'}> is 201, and C<$Name2character_number{'eacute'}> is 8364. You get the correct Unicode value, regardless of the version of Perl you're using -- which differs from C<%Name2character>'s behavior under pre-5.7 Perls.

Note that this hash does not include numerics (like "64" or "x981c").

=item $Latin1Code_to_fallback{I<integer>}

For numbers in the range 160 (0x00A0) to 255 (0x00FF), this maps from the character code for a Latin-1 character (like 233 for lowercase e-acute) to the US-ASCII character that best approximates it (like "e"). You may find this useful if you are rendering POD in a format that you think deals well only with US-ASCII characters.

=item $Latin1Char_to_fallback{I<character>}

Just as above, but maps from characters (like "xE9", lowercase e-acute) to characters (like "e").

=item $Code2USASCII{I<integer>}

This maps from US-ASCII codes (like 32) to the corresponding character (like space, for 32). Only characters 32 to 126 are defined. This is meant for use by C<e2char($x)> when it senses that it's running on a non-ASCII platform (where chr(32) doesn't get you a space -- but $Code2USASCII{32} will). It's documented here just in case you might find it useful.

=back

=head1 CAVEATS

On Perl versions before 5.7, Unicode characters with a value over 255 (like lambda or emdash) can't be conveyed. This
module does work under such early Perl versions, but in the place of each such character, you get a "?". Latin-1 characters (characters 160-255) are unaffected.

Under EBCDIC platforms, C<e2char($n)> may not always be the same as C<chr(e2charnum($n))>, and ditto for C<$Name2character{$name}> and C<chr($Name2character_number{$name})>, because the strings are returned as native, and the numbers are returned as Unicode. However, for Perls starting with v5.8, C<e2char($n)> is the same as C<chr(utf8::unicode_to_native(e2charnum($n)))>, and ditto for C<$Name2character{$name}> and C<chr(utf8::unicode_to_native($Name2character_number{$name}))>.

=head1 SEE ALSO

L<Pod::Browser> - a pod web server based on L<Catalyst>.

L<Pod::Checker> - check pod documents for syntax errors.

L<Pod::Coverage> - check if the documentation for a module is comprehensive.

L<perlpod> - description of pod format (for people documenting with pod).

L<perlpodspec> - specification of pod format (for people processing it).

L<Text::Unidecode> - ASCII transliteration of Unicode text.

=head1 REPOSITORY

L<https://github.com/neilbowers/Pod-Escapes>

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Portions of the data tables in this module are derived from the entity declarations in the W3C XHTML specification.

Currently (October 2001), that's these three:
http://www.w3.org/TR/xhtml1/DTD/xhtml-lat1.ent
http://www.w3.org/TR/xhtml1/DTD/xhtml-special.ent
http://www.w3.org/TR/xhtml1/DTD/xhtml-symbol.ent

=head1 AUTHOR

Sean M. Burke C<sburke@cpan.org>

Now being maintained by Neil Bowers E<neilb@cpan.orgE>

=cut

#~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
# What I used for reading the XHTML .ent files:

my(@norms, @good, @bad);
my $dir = 'c:/sgml/docbook/';
my %escapes;
foreach my $file (qw(xhtml-symbol.ent
       xhtml-lat1.ent
       xhtml-special.ent)) {
   open(IN, "$dir$file") or die "can't read-open $dir$file: $!";
   print "Reading $file...
   ";
   while(<IN>) {
      if(m/<!ENTITY\s+(\S+)\s+"&#\d+;"/>) {
         my($name, $value) = ($1,$2);
         next if $name eq 'quot' or $name eq 'apos' or $name eq 'gt';
         $value = hex $1 if $value =~ m/^x([a-fA-F0-9]+)$/s;
         print "ILLEGAL VALUE $value" unless $value =~ m/^\d+$/s;
         if($value > 255) {
            push @good , sprintf " %-10s , chr(%s),
            "$name", $value;
            push @bad , sprintf " %-10s , \$bad,\n            "$name", $value;
         } else {
            push @norms, sprintf " %-10s , chr(%s),\n            "$name", $value;
         }
      } elsif(m/<!ENT/) {
         print "# Skipping \$_
      }
   }
   close(IN);
}

print @norms;
print "\n ( \$] .= 5.006001 \n";
print @good;
print "");
print @bad;
print ");\n"

__END__

#~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

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* /opt/ws_local/PERMITS_SQL/1009548111_1591901918.14/0/perl-Pod-Escapes-1.07-395.el8.src.rpm-cosi-expand-archive-AcQE8bnL/Pod-Escapes-1.07.tar.gz-cosi-expand-archive-GKGiQNjB/Pod-Escapes-1.07/lib/Pod/Escapes.pm
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=head1 NAME

MIME::Base64 - Encoding and decoding of base64 strings

=head1 SYNOPSIS

use MIME::Base64;

$encoded = encode_base64('Aladdin:open sesame');
$decoded = decode_base64($encoded);

=head1 DESCRIPTION

This module provides functions to encode and decode strings into and from the base64 encoding specified in RFC 2045 - I<MIME (Multipurpose Internet Mail Extensions)>. The base64 encoding is designed to represent arbitrary sequences of octets in a form that need not be humanly readable. A 65-character subset ([A-Za-z0-9+/=]) of US-ASCII is used, enabling 6 bits to be represented per printable character.

The following primary functions are provided:
Encode data by calling the encode_base64() function. The first argument is the byte string to encode. The second argument is the line-ending sequence to use. It is optional and defaults to "\n". The returned encoded string is broken into lines of no more than 76 characters each and it will end with $eol unless it is empty. Pass an empty string as second argument if you do not want the encoded string to be broken into lines.

The function will croak with "Wide character in subroutine entry" if $bytes contains characters with code above 255. The base64 encoding is only defined for single-byte characters. Use the Encode module to select the byte encoding you want.

Decode a base64 string by calling the decode_base64() function. This function takes a single argument which is the string to decode and returns the decoded data.

Any character not part of the 65-character base64 subset is silently ignored. Characters occurring after a '=' padding character are never decoded.

If you prefer not to import these routines into your namespace, you can call them as:

```
use MIME::Base64 ();
$encoded = MIME::Base64::encode($decoded);
$decoded = MIME::Base64::decode($encoded);
```

Additional functions not exported by default:

Encode and decode according to the base64 scheme for "URL applications" [1].
This is a variant of the base64 encoding which does not use padding, does not break the string into multiple lines and use the characters "." and "/" instead of "+" and "/" to avoid using reserved URL characters.

=item encoded_base64_length( $bytes )

=item encoded_base64_length( $bytes, $eol )

Returns the length that the encoded string would have without actually encoding it. This will return the same value as C<< length(encode_base64($bytes)) >>, but should be more efficient.

=item decoded_base64_length( $str )

Returns the length that the decoded string would have without actually decoding it. This will return the same value as C<< length(decode_base64($str)) >>, but should be more efficient.

=back

=head1 EXAMPLES

If you want to encode a large file, you should encode it in chunks that are a multiple of 57 bytes. This ensures that the base64 lines line up and that you do not end up with padding in the middle. 57 bytes of data fills one complete base64 line (76 == 57*4/3):

use MIME::Base64 qw(encode_base64);

open(FILE, "/var/log/wtmp") or die "$!";
while (read(FILE, $buf, 60*57)) {
    print encode_base64($buf);
}

or if you know you have enough memory

use MIME::Base64 qw(encode_base64);
local($) = undef; # slurp
print encode_base64(<STDIN>);

The same approach as a command line:

perl -MMIME::Base64 -0777 -ne 'print encode_base64($_)' <file

Decoding does not need slurp mode if every line contains a multiple of four base64 chars:

perl -MMIME::Base64 -ne 'print decode_base64($_)' <file
Perl v5.8 and better allow extended Unicode characters in strings. Such strings cannot be encoded directly, as the base64 encoding is only defined for single-byte characters. The solution is to use the Encode module to select the byte encoding you want. For example:

```perl
use MIME::Base64 qw(encode_base64);
use Encode qw(encode);

$encoded = encode_base64(encode("UTF-8", "\x{FFFF}\n"));
print $encoded;
```

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Distantly based on LWP::Base64 written by Martijn Koster <m.koster@nexor.co.uk> and Joerg Reichelt <j.reichelt@nexor.co.uk> and code posted to comp.lang.perl <3pd2lp$6gf@wsinti07.win.tue.nl> by Hans Mulder <hansm@wsinti07.win.tue.nl>

The XS implementation uses code from metamail. Copyright 1991 Bell Communications Research, Inc. (Bellcore)

=head1 SEE ALSO

L<MIME::QuotedPrint>


=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548113_1591379705.71/0/perl-MIME-Base64-3.15-396.el8.src.rpm-cosi-expand-archive-nIHtQ35q/MIME-Base64-3.15.tar.gz-cosi-expand-archive-PDQBSLDF/MIME-Base64-3.15/Base64.pm

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---
abstract: 'The RFC 2045 encodings; base64 and quoted-printable'
author:
- 'Gisle Aas <gisle@activestate.com>'
buildRequires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0

dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.66, CPAN::Meta::Converter version 2.133380'
license: perl

meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: MIME-Base64

no_index:
directory:
  - t
  - inc
requires:
  XSLoader: 0
  perl: 5.004
resources:
  repository: https://github.com/gisle/mime-base64
  version: 3.15

Found in path(s):
  * /opt/ws_local/PERMITS_SQL/1009548113_1591379705.71/0/perl-MIME-Base64-3.15-396.el8.src.rpm-cosi-
    expand-archive-nIHtQ35q/MIME-Base64-3.15.tar.gz-cosi-expand-archive-PDQBSLDF/MIME-Base64-
    3.15/META.yml

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This package contains a base64 encoder/decoder and a quoted-printable encoder/decoder. These encoding methods are specified in RFC 2045 - MIME (Multipurpose Internet Mail Extensions).

The base64 encoding is designed to represent arbitrary sequences of octets in a form that need not be humanly readable. A 65-character subset ([A-Za-z0-9+/=]) of US-ASCII is used, enabling 6 bits to be represented per printable character.

The quoted-printable encoding is intended to represent data that largely consists of bytes that correspond to printable characters in the ASCII character set. Each non-printable character is represented by a triplet consisting of the character "=" followed by two hexadecimal digits.

In order to install and use this package you will need Perl version 5.6 or better. Installation as usual:

perl Makefile.PL
make
make test
make install
NAME
MIME::QuotedPrint - Encoding and decoding of quoted-printable strings

SYNOPSIS

use MIME::QuotedPrint;

$encoded = encode_qp($decoded);
$decoded = decode_qp($encoded);

DESCRIPTION

This module provides functions to encode and decode strings into and from the quoted-printable encoding specified in RFC 2045 - MIME (Multipurpose Internet Mail Extensions). The quoted-printable encoding is intended to represent data that largely consists of bytes that correspond to printable characters in the ASCII character set. Each non-printable character (as defined by English Americans) is represented by a triplet consisting of the character "=" followed by two hexadecimal digits.

The following functions are provided:

over 4

item encode_qp( $str)

item encode_qp( $str, $eol)

item encode_qp( $str, $eol, $binmode )

This function returns an encoded version of the string ($str) given as argument.

The second argument ($eol) is the line-ending sequence to use. It is
optional and defaults to "\n". Every occurrence of "\n" is replaced with this string, and it is also used for additional "soft line breaks" to ensure that no line end up longer than 76 characters. Pass it as "015\012" to produce data suitable for external consumption. The string "\r\n" produces the same result on many platforms, but not all.

The third argument ($binmode) will select binary mode if passed as a TRUE value. In binary mode "\n" will be encoded in the same way as any other non-printable character. This ensures that a decoder will end up with exactly the same string whatever line ending sequence it uses. In general it is preferable to use the base64 encoding for binary data; see L<MIME::Base64>.

An $eol of "" (the empty string) is special. In this case, no "soft line breaks" are introduced and binary mode is effectively enabled so that any "\n" in the original data is encoded as well.

=item decode_qp( $str )

This function returns the plain text version of the string given as argument. The lines of the result are "\n" terminated, even if the $str argument contains "\r\n" terminated lines.

=back

If you prefer not to import these routines into your namespace, you can call them as:

use MIME::QuotedPrint ();
$encoded = MIME::QuotedPrint::encode($decoded);
$decoded = MIME::QuotedPrint::decode($encoded);

Perl v5.8 and better allow extended Unicode characters in strings. Such strings cannot be encoded directly, as the quoted-printable encoding is only defined for single-byte characters. The solution is to use the Encode module to select the byte encoding you want. For example:

use MIME::QuotedPrint qw(encode_qp);
use Encode qw(encode);

$encoded = encode_qp(encode("UTF-8", "\x{FFFF}\n"));
print $encoded;

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=head1 SEE ALSO

L<MIME::Base64>

=cut

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1.650 wso2-carbon-roles-mgt 4.4.35

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1.656 wso2-carbon-metrics-data-common

1.2.3

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Chad Walters <chad@powerset.com>
- TJSONProtocol for C++ and Java

Nitya <nityaj@gmail.com>
- Support for "make check"

William Morgan <w@adap.tv>
- Miscellaneous Ruby improvements

Ben Maurer <bmaurer@andrew.cmu.edu>
- Restructuring the way Autoconf is used

Patrick Collison <patrick@collison.ie>
- Smalltalk bindings

Dave Simpson <dave@powerset.com>
- Better support for connection tracking in the C++ server
- Miscellaneous fixes

Igor Afanasyev <afan@evernote.com>
- Perl HttpClient and bugfixes

Todd Berman <tberman@imeem.com>
- MinGW port of the compiler
- C# bindings
- MS build task

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Release 20070917
----------------
Dave Engberg <engberg@gmail.com>
-JavaBean/JavaDoc enhancements

Andrew McGeachie <geechorama@gmail.com>
-Cocoa/Objective-C support

Ben Maurer <bmaurer@andrew.cmu.edu>
-Python performance enhancements, fastbinary support

Andrew Lutomirski <andy@luto.us>
-Added optional/required keywords for C++ objects
-Added comparison operators for C++ structs

Johan Oskarsson <johan@oksarsson.nu>
-Java findbugs compliance fixes

Paul Saab <ps@powerset.com>
-IPv6 support for TSocket in C++/Python

Kevin Clark <kevin@powerset.com>
-Significant overhaul of Ruby code generation and servers

Simon Forman <sforman@gmail.com>
-TProcessorFactory abstraction for Java servers

Jake Luciani <jakers@gmail.com>
-Perl code generation, libraries, test code

David Reiss <dreiss@stanford.edu>
-strings.h include fix for bzero
-endianness fixes on TBinaryProtocol double serialization
-improved ntohll,htonll implementation

Dan Li <dto@dev.java.net>
-Java TestServer and Tutorial Fixes

Kevin Ko <kevin.s.ko@gmail.com>
-Fix for unnecessary std::string copy construction in Protocol/Exception

Paul Querna <pquerna@apache.org>
-Autoconf error message fix for libevent detection
-clock_gettime implementation for OSX

----------------
Release 20070401
----------------
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compiler/cpp/src/generate/t_hs_generator.cc
compiler/cpp/src/generate/t_java_generator.cc
compiler/cpp/src/generate/t_ocaml_generator.cc
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*/

--------------------------------------------------
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lib/ocaml/OCamlMakefile and lib/ocaml/README-OCamlMakefile components:

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 */
```

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1.665 cf-xjc-runtime 3.2.1

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
"src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
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lib/gss_mechs/mech_spnego/mach/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
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lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
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lib/libgss/g_delete_sec_context.c
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lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
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lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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NAME

Carp - alternative warn and die for modules

DESCRIPTION

The Carp routines are useful in your own modules because they act like die() or warn(), but with a message which is more likely to be useful to a user of your module. In the case of cluck, confess, and longmess that context is a summary of every call in the call-stack. For a shorter message you can use carp or croak which report the error as being from where your module was called. There is no guarantee that that is where the error was, but it is a good educated guess.

You can also alter the way the output and logic of Carp works, by changing some global variables in the Carp namespace.
INSTALLATION

perl Makefile.PL
make
make test
make install

AUTHOR

The Carp module first appeared in Larry Wall's perl 5.000 distribution. Since then it has been modified by several of the perl 5 porters. Andrew Main (Zefram) <zefram@fysh.org> divested Carp into an independent distribution.

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=head1 NAME

Carp - alternative warn and die for modules

=head1 SYNOPSIS

use Carp;

# warn user (from perspective of caller)
carp "string trimmed to 80 chars";

# die of errors (from perspective of caller)
croak "We're outta here!";

# die of errors with stack backtrace
confess "not implemented";
use Carp qw(cluck longmess shortmess);

cluck "This is how we got here!";

$long_message = longmess( "message from cluck() or confess()" );
$short_message = shortmess( "message from carp() or croak()" );

=head1 DESCRIPTION

The Carp routines are useful in your own modules because they act like C<die()> or C<warn()>, but with a message which is more likely to be useful to a user of your module. In the case of C<cluck()> and C<confess()> that context is a summary of every call in the call-stack; C<longmess()> returns the contents of the error message.

For a shorter message you can use C<carp()> or C<croak()> which report the error as being from where your module was called. C<shortmess()> returns the contents of this error message. There is no guarantee that that is where the error was, but it is a good educated guess.

C<Carp> takes care not to clobber the status variables C<$!> and C<$^E> in the course of assembling its error messages. This means that a C<$SIG{__DIE__}> or C<$SIG{__WARN__}> handler can capture the error information held in those variables, if it is required to augment the error message, and if the code calling C<Carp> left useful values there. Of course, C<Carp> can't guarantee the latter.

You can also alter the way the output and logic of C<Carp> works, by changing some global variables in the C<Carp> namespace. See the section on C<GLOBAL VARIABLES> below.

Here is a more complete description of how C<carp> and C<croak> work. What they do is search the call-stack for a function call stack where they have not been told that there shouldn't be an error. If every call is marked safe, they give up and give a full stack backtrace instead. In other words they presume that the first likely looking potential suspect is guilty. Their rules for telling whether a call shouldn't generate errors work as follows:

=over 4

=item 1.

Any call from a package to itself is safe.

=item 2.

Packages claim that there won't be errors on calls to or from

=item 3.

Packages claim that there won't be errors on calls to or from

=item 4.

Packages claim that there won't be errors on calls to or from

=item 5.

Packages claim that there won't be errors on calls to or from

=item 6.

Packages claim that there won't be errors on calls to or from

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Packages claim that there won't be errors on calls to or from

=item 20.

Packages claim that there won't be errors on calls to or from

=item 21.

Packages claim that there won't be errors on calls to or from

=item 22.

Packages claim that there won't be errors on calls to or from...
packages explicitly marked as safe by inclusion in C<@CARP_NOT>, or (if that array is empty) C<@ISA>. The ability to override what @ISA says is new in 5.8.

=item 3.

The trust in item 2 is transitive. If A trusts B, and B trusts C, then A trusts C. So if you do not override C<@ISA> with C<@CARP_NOT>, then this trust relationship is identical to, "inherits from".

=item 4.

Any call from an internal Perl module is safe. (Nothing keeps user modules from marking themselves as internal to Perl, but this practice is discouraged.)

=item 5.

Any call to Perl's warning system (eg Carp itself) is safe. (This rule is what keeps it from reporting the error at the point where you call C<carp> or C<croak>.)

=item 6.

C<$Carp::CarpLevel> can be set to skip a fixed number of additional call levels. Using this is not recommended because it is very difficult to get it to behave correctly.

=back

=head2 Forcing a Stack Trace

As a debugging aid, you can force Carp to treat a croak as a confess and a carp as a chuck across I<all> modules. In other words, force a detailed stack trace to be given. This can be very helpful when trying to understand why, or from where, a warning or error is being generated.

This feature is enabled by 'importing' the non-existent symbol 'verbose'. You would typically enable it by saying

    perl -MCarp=verbose script.pl

or by including the string C<-MCarp=verbose> in the PERL5OPT environment variable.

Alternately, you can set the global variable C<$Carp::Verbose> to true. See the C<GLOBAL VARIABLES> section below.
Stack Trace formatting

At each stack level, the subroutine's name is displayed along with its parameters. For simple scalars, this is sufficient. For complex data types, such as objects and other references, this can simply display C<'HASH(0x1ab36d8)>.

Carp gives two ways to control this.

=over 4
=item 1.

For objects, a method, C<CARP_TRACE>, will be called, if it exists. If this method doesn't exist, or it recurses into C<Carp>, or it otherwise throws an exception, this is skipped, and Carp moves on to the next option, otherwise checking stops and the string returned is used. It is recommended that the object's type is part of the string to make debugging easier.

=item 2.

For any type of reference, C<$Carp::RefArgFormatter> is checked (see below). This variable is expected to be a code reference, and the current parameter is passed in. If this function doesn't exist (the variable is undef), or it recurses into C<Carp>, or it otherwise throws an exception, this is skipped, and Carp moves on to the next option, otherwise checking stops and the string returned is used.

=item 3.

Otherwise, if neither C<CARP_TRACE> nor C<$Carp::RefArgFormatter> is available, stringify the value ignoring any overloading.

=back

GLOBAL VARIABLES

=Carp::MaxEvalLen

This variable determines how many characters of a string-eval are to be shown in the output. Use a value of C<0> to show all text.

Defaults to C<0>.

=Carp::MaxArgLen

This variable determines how many characters of each argument to a
function to print. Use a value of C<0> to show the full length of the
argument.

Defaults to C<64>.

=head2 $Carp::MaxArgNums

This variable determines how many arguments to each function to show.
Use a false value to show all arguments to a function call. To suppress all
arguments, use C<-1> or C<0 but true'>.

Defaults to C<8>.

=head2 $Carp::Verbose

This variable makes C<carp()> and C<croak()> generate stack backtraces
just like C<cluck()> and C<confess()> . This is how C<use Carp 'verbose'>
is implemented internally.

Defaults to C<0>.

=head2 $Carp::RefArgFormatter

This variable sets a general argument formatter to display references.
Plain scalars and objects that implement C<CARP_TRACE> will not go through
this formatter. Calling C<Carp> from within this function is not supported.

local $Carp::RefArgFormatter = sub {
    require Data::Dumper;
    Data::Dumper::Dump($_[0]); # not necessarily safe
};

=head2 @CARP_NOT

This variable, I<in your package>, says which packages are I<not> to be
considered as the location of an error. The C<carp()> and C<cluck()>functions will skip over callers when reporting where an error occurred.

NB: This variable must be in the package's symbol table, thus:

    # These work
    our @CARP_NOT; # file scope
    use vars qw(@CARP_NOT); # package scope
    @My::Package::CARP_NOT = ... ; # explicit package variable

    # These don't work
    sub xyz { ... @CARP_NOT = ... } # w/o declarations above
    my @CARP_NOT; # even at top-level
Example of use:

```perl
package My::Carping::Package;
use Carp;
our @CARP_NOT;
sub bar     { .... or _error('Wrong input') }
sub _error  {
    # temporary control of where'ness, __PACKAGE__ is implicit
    local @CARP_NOT = qw(My::Friendly::Caller);
    carp(@_)
}

This would make C<Carp> report the error as coming from a caller not
in C<My::Carping::Package>, nor from C<My::Friendly::Caller>.

Also read the L</DESCRIPTION> section above, about how C<Carp> decides
where the error is reported from.

Use C<@CARP_NOT>, instead of C<$Carp::CarpLevel>.

Overrides C<Carp>'s use of C<@ISA>.

=head2 %Carp::Internal

This says what packages are internal to Perl. C<Carp> will never
report an error as being from a line in a package that is internal to
Perl. For example:

```perl
$Carp::Internal{ (__PACKAGE__) }++;  # time passes...
sub foo { ... or confess("whatever") ;

would give a full stack backtrace starting from the first caller
outside of __PACKAGE__. (Unless that package was also internal to
Perl.)

=head2 %Carp::CarpInternal

This says which packages are internal to Perl's warning system. For
generating a full stack backtrace this is the same as being internal
to Perl, the stack backtrace will not start inside packages that are
listed in C<%Carp::CarpInternal>. But it is slightly different for
the summary message generated by C<carp> or C<croak>. There errors
will not be reported on any lines that are calling packages in
C<%Carp::CarpInternal>.

For example C<Carp> itself is listed in C<%Carp::CarpInternal>.
Therefore the full stack backtrace from \texttt{confess} will not start inside of \texttt{Carp}, and the short message from calling \texttt{croak} is not placed on the line where \texttt{croak} was called.

\section*{$\texttt{Carp::CarpLevel}$}

This variable determines how many additional call frames are to be skipped that would not otherwise be when reporting where an error occurred on a call to one of \texttt{Carp}'s functions. It is fairly easy to count these call frames on calls that generate a full stack backtrace. However it is much harder to do this accounting for calls that generate a short message. Usually people skip too many call frames. If they are lucky they skip enough that \texttt{Carp} goes all of the way through the call stack, realizes that something is wrong, and then generates a full stack backtrace. If they are unlucky then the error is reported from somewhere misleading very high in the call stack.

Therefore it is best to avoid \texttt{Carp::CarpLevel}. Instead use \texttt{@CARP\_NOT}, \texttt{\%Carp::Internal} and \texttt{\%Carp::CarpInternal}.

Defaults to \texttt{Carp\_\_0}.

\section*{BUGS}

The \texttt{Carp} routines don't handle exception objects currently. If called with a first argument that is a reference, they simply call \texttt{die()} or \texttt{warn()}, as appropriate.

\section*{SEE ALSO}

\texttt{L\_Carp\_\_Always}, \texttt{L\_Carp\_\_Clan}

\section*{AUTHOR}

The \texttt{Carp} module first appeared in Larry Wall's perl 5.000 distribution. Since then it has been modified by several of the perl 5 porters. Andrew Main (Zefram) \texttt{<zefram@fysh.org>} divested \texttt{Carp} into an independent distribution.

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* /opt/ws_local/PERMITS_SQL/1009548115_1591901898.54/0/perl-Carp-1.42-396.el8.src.rpm-cosi-expand-archive-6G9eXuF1/Carp-1.38.tar.gz-cosi-expand-archive-ok6zis0t/Carp-1.38/lib/Carp.pm
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---
abstract: 'alternative warn and die for modules'
author:
  - unknown
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.1, CPAN::Meta::Converter version 2.150005'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Carp
no_index:
directory:
  - t
  - inc
requires:
  Config: '0'
  Exporter: '0'
  ExtUtils::MakeMaker: '0'
  IPC::Open3: '1.0103'
  Test::More: '0.47'
  overload: '0'
  strict: '0'
  warnings: '0'
  version: '1.38'
  x_serialization_backend: 'CPAN::Meta::YAML version 0.017'

Found in path(s):
1.679 jettison 1.3.4

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1.682 pcre 8.39 3

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Licensing Information User Manual

MySQL Connector/J 8.0

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

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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.

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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.

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

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(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
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- /opt/ws_local/PERMITS_SQL/1007102901_1592893675.89/0/opensaml-2-6-4-sources-jar/org/opensaml/xacml/policy/EnvironmentsType.java
- /opt/ws_local/PERMITS_SQL/1007102901_1592893675.89/0/opensaml-2-6-4-sources-jar/org/opensaml/xacml/policy/AttributeSelectorType.java
- /opt/ws_local/PERMITS_SQL/1007102901_1592893675.89/0/opensaml-2-6-4-sources-jar/org/opensaml/xacml/samlthprpty/impl/RespondToImpl.java
- /opt/ws_local/PERMITS_SQL/1007102901_1592893675.89/0/opensaml-2-6-4-sources-jar/org/opensaml/saml1/core/DoNotCacheCondition.java
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- /opt/ws_local/PERMITS_SQL/1007102901_1592893675.89/0/opensaml-2-6-4-sources-jar/org/opensaml/xacml/ctx/impl/StatusCodeTypeMarshaller.java
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- /opt/ws_local/PERMITS_SQL/1007102901_1592893675.89/0/opensaml-2-6-4-sources-jar/org/opensaml/xacml/policy/impl/ResourceMatchTypeMarshaller.java
- /opt/ws_local/PERMITS_SQL/1007102901_1592893675.89/0/opensaml-2-6-4-sources-jar/org/opensaml/samlext/saml2mdquery/AuthnQueryDescriptorType.java
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* /opt/ws_local/PERMITS_SQL/1007102901_1592893675.89/0/opensaml-2-6-4-sources-jar/org/opensaml/common/binding/security/SAMLMDClientCertAuthRule.java
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* /opt/ws_local/PERMITS_SQL/1007102901_1592893675.89/0/opensaml-2-6-4-sources-jar/org/opensaml/xacml/policy/impl/ConditionTypeUnmarshaller.java
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* /opt/ws_local/PERMITS_SQL/1007102901_1592893675.89/0/opensaml-2-6-4-sources-jar/org/opensaml/saml2/core/impl/AuthnRequestBuilder.java
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* /opt/ws_local/PERMITS_SQL/1007102901_1592893675.89/0/opensaml-2-6-4-sources-jar/org/opensaml/saml2/metadata/impl/OrganizationNameBuilder.java
* /opt/ws_local/PERMITS_SQL/1007102901_1592893675.89/0/opensaml-2-6-4-sources-jar/org/opensaml/common/binding/artifact/BasicSAMLArtifactMapEntry.java
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 */
/** Overrides binding confidentiality. */
/**
 * Returns confidentiality override flag.
 * @return true iff the encoder cannot provide confidentiality
 */
/**
 * Sets confidentiality override flag.
 * @param flag override flag
 */

Found in path(s):
*/

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Also see the ChangeLog for even more people who have helped over the years by submitting fixes, patches and reporting bugs.

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CMake was initially developed by Kitware with the following sponsorship:

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* US National Labs (Los Alamos, Livermore, Sandia) ASC Parallel Visualization Initiative.

* National Alliance for Medical Image Computing (NAMIC) is funded by the National Institutes of Health through the NIH Roadmap for Medical Research.
This file contains a list of people who have made large contributions to the public version of Protocol Buffers.

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* Fixed warnings about generated constructors not explicitly initializing
all fields (only present with certain compiler settings).
* Added generation of field number constants.
Wink Saville <wink@google.com>
* Fixed initialization ordering problem in logging code.
Will Pierce <willp@nuclei.com>
* Small patch improving performance of in Python serialization.
Alexandre Vassalotti <alexandre@peadrop.com>
* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).
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* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.
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* HPUX support.
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* Detect whether zlib is new enough in configure script.
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* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only
once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.
Michael Kucharski <m.kucharski@gmail.com>
* Added CodedInputStream.getTotalBytesRead().
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  William Orr <will@worrbase.com>
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  Andrew Paprocki <andrew@ishiboo.com>
* Added atomicops for Solaris
* Fixed minor IBM xIC compiler build issues
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MySQL 8.0

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md5 (Message-Digest Algorithm 5)

This code implements the MD5 message-digest algorithm.
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Equivalent code is available from RSA Data Security, Inc. This code has been tested against that, and is equivalent, except that you don't need to include two pages of legalese with every copy.

The code has been modified by Mikael Ronstroem to handle calculating a hash value of a key that is always a multiple of 4 bytes long. Word 0 of the calculated 4-word hash value is returned as the hash value.

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

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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[This is the first released version of the library GPL. It is numbered 2 
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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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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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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.

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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.

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

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

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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally 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.

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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.

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abstract: 'Implements default import method for modules'

author:
- unknown

build_requires:
  ExtUtils::MakeMaker: 0

configure_requires:
  ExtUtils::MakeMaker: 0

dynamic_config: 1

generated_by: 'ExtUtils::MakeMaker version 6.68, CPAN::Meta::Converter version 2.120921'

license: perl

meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4

name: Exporter

no_index:
directory:
  - t
  - inc

recommends:
  Test::Pod: 1.18
  Test::Pod::Coverage: 1.04

requires:
  Carp: 1.05

resources:
bugtracker: http://rt.perl.org/perlbug/
license: http://dev.perl.org/licenses/
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=head1 NAME
Exporter - Implements default import method for modules

=head1 SYNOPSIS

In module F<YourModule.pm>:

package YourModule;
require Exporter;
@ISA = qw(Exporter);
@EXPORT_OK = qw(munge frobnicate);  # symbols to export on request

or

package YourModule;
use Exporter 'import'; # gives you Exporter's import() method directly
@EXPORT_OK = qw(munge frobnicate);  # symbols to export on request

In other files which wish to use C<YourModule>:

use YourModule qw(frobnicate);  # import listed symbols
frobnicate ($left, $right)      # calls YourModule::frobnicate

Take a look at L</Good Practices> for some variants
you will like to use in modern Perl code.

=head1 DESCRIPTION
The Exporter module implements an `import` method which allows a module to export functions and variables to its users' namespaces. Many modules use Exporter rather than implementing their own `import` method because Exporter provides a highly flexible interface, with an implementation optimised for the common case.

Perl automatically calls the `import` method when processing a `use` statement for a module. Modules and `use` are documented in `perlfunc` and `perlmod`. Understanding the concept of modules and how the `use` statement operates is important to understanding the Exporter.

=head2 How to Export

The arrays `@EXPORT` and `@EXPORT_OK` in a module hold lists of symbols that are going to be exported into the users namespace by default, or which they can request to be exported, respectively. The symbols can represent functions, scalars, arrays, hashes, or typeglobs. The symbols must be given by full name with the exception that the ampersand in front of a function is optional, e.g.

   @EXPORT    = qw(afunc $scalar @array);   # afunc is a function
   @EXPORT_OK = qw(&bfunc %hash *typeglob); # explicit prefix on &bfunc

If you are only exporting function names it is recommended to omit the ampersand, as the implementation is faster this way.

=head2 Selecting What to Export

Do B<not> export method names!

Do B<not> export anything else by default without a good reason!

Exports pollute the namespace of the module user. If you must export try to use `C<@EXPORT_OK>` in preference to `C<@EXPORT>` and avoid short or common symbol names to reduce the risk of name clashes.

Generally anything not exported is still accessible from outside the module using the C<YourModule::item_name> (or C<< $blessed_ref->method >>) syntax. By convention you can use a leading underscore on names to informally indicate that they are 'internal' and not for public use.

(It is actually possible to get private functions by saying:

my $subref = sub { ... };  # subref is a function
$subref->(@args);           # Call it as a function
$obj->$subref(@args);      # Use it as a method

However if you use them for methods it is up to you to figure out how to make inheritance work.)

As a general rule, if the module is trying to be object oriented then export nothing. If it's just a collection of functions then C<@EXPORT_OK> anything but use C<@EXPORT> with caution. For function and method names use barewords in preference to names prefixed with ampersands for the export lists.

Other module design guidelines can be found in L<perlmod>.

=head2 How to Import

In other files which wish to use your module there are three basic ways for them to load your module and import its symbols:

=over 4

=item C<use YourModule;>

This imports all the symbols from YourModule's C<@EXPORT> into the namespace of the C<use> statement.

=item C<use YourModule ();>

This causes perl to load your module but does not import any symbols.

=item C<use YourModule qw(...);>

This imports only the symbols listed by the caller into their namespace. All listed symbols must be in your C<@EXPORT> or C<@EXPORT_OK>, else an error occurs. The advanced export features of Exporter are accessed like this, but with list entries that are syntactically distinct from symbol names.

=back

Unless you want to use its advanced features, this is probably all you need to know to use Exporter.

=head1 Advanced Features

=head2 Specialised Import Lists

If any of the entries in an import list begins with !, : or / then the list is treated as a series of specifications which either add to or delete from the list of names to import. They are processed left to right. Specifications are in the form:
A leading ! indicates that matching names should be deleted from the list of names to import. If the first specification is a deletion it is treated as though preceded by :DEFAULT. If you just want to import extra names in addition to the default set you will still need to include :DEFAULT explicitly.

E.g., F<Module.pm> defines:

```perl
@EXPORT = qw(A1 A2 A3 A4 A5);
@EXPORT_OK = qw(B1 B2 B3 B4 B5);
%EXPORT_TAGS = (T1 => [qw(A1 A2 B1 B2)], T2 => [qw(A1 A2 B3 B4)]);
```

Note that you cannot use tags in @EXPORT or @EXPORT_OK.

Names in EXPORT_TAGS must also appear in @EXPORT or @EXPORT_OK.

An application using Module can say something like:

```perl
use Module qw(:DEFAULT :T2 !B3 A3);
```

Other examples include:

```perl
use Socket qw(!/\^[AP]F_/ !SOMAXCONN !SOL_SOCKET);
use POSIX  qw(:errno_h :termios_h !TCSADRAIN !/\^EXIT/);
```

Remember that most patterns (using //) will need to be anchored with a leading ^, e.g., C</EXIT/> rather than C</EXIT/>.

You can say C<BEGIN { $Exporter::Verbose=1 } > to see how the specifications are being processed and what is actually being imported into modules.

=head2 Exporting Without Using Exporter's import Method

Exporter has a special method, 'export_to_level' which is used in situations where you can't directly call Exporter's import method. The export_to_level method looks like:

```perl
MyPackage->export_to_level(
 $where_to_export, $package, @what_to_export
);
```
where $\texttt{where\_to\_export}$ is an integer telling how far up the calling stack to export your symbols, and $\texttt{what\_to\_export}$ is an array telling what symbols *to* export (usually this is $\texttt{@\_\_}$). The $\texttt{package}$ argument is currently unused.

For example, suppose that you have a module, A, which already has an import function:

```perl
package A;
@ISA = qw(Exporter);
@EXPORT_OK = qw($b);

sub import
  {
  $A::b = 1;       # not a very useful import method
  }
```

and you want to Export symbol $\texttt{A::b}$ back to the module that called package A. Since Exporter relies on the import method to work, via inheritance, as it stands Exporter::import() will never get called. Instead, say the following:

```perl
package A;
@ISA = qw(Exporter);
@EXPORT_OK = qw($b);

sub import
  {
  $A::b = 1;
  A->export_to_level(1, @_);
  }
```

This will export the symbols one level 'above' the current package - ie: to the program or module that used package A.

Note: Be careful not to modify $\texttt{@\_\_}$ at all before you call export_to_level - or people using your package will get very unexplained results!

=head2 Exporting Without Inheriting from Exporter

By including Exporter in your $\texttt{@ISA}$ you inherit an Exporter's import() method but you also inherit several other helper methods which you probably don't want. To avoid this you can do:

```perl
package YourModule;
use Exporter qw(import);
```
which will export Exporter's own import() method into YourModule. Everything will work as before but you won't need to include Exporter in C:@YourModule::ISA@.

Note: This feature was introduced in version 5.57 of Exporter, released with perl 5.8.3.

=head2 Module Version Checking

The Exporter module will convert an attempt to import a number from a module into a call to C<< $module_name->VERSION($value) >>. This can be used to validate that the version of the module being used is greater than or equal to the required version.

For historical reasons, Exporter supplies a C<require_version> method that simply delegates to C<VERSION>. Originally, before C<UNIVERSAL::VERSION> existed, Exporter would call C<require_version>.

Since the C<UNIVERSAL::VERSION> method treats the C<$VERSION> number as a simple numeric value it will regard version 1.10 as lower than 1.9. For this reason it is strongly recommended that you use numbers with at least two decimal places, e.g., 1.09.

=head2 Managing Unknown Symbols

In some situations you may want to prevent certain symbols from being exported. Typically this applies to extensions which have functions or constants that may not exist on some systems.

The names of any symbols that cannot be exported should be listed in the C:@EXPORT_FAIL@ array.

If a module attempts to import any of these symbols the Exporter will give the module an opportunity to handle the situation before generating an error. The Exporter will call an export_fail method with a list of the failed symbols:

```perl
@failed_symbols = $module_name->export_fail(@failed_symbols);
```

If the C<export_fail> method returns an empty list then no error is recorded and all the requested symbols are exported. If the returned list is not empty then an error is generated for each symbol and the export fails. The Exporter provides a default C<export_fail> method which simply returns the list unchanged.

Uses for the C<export_fail> method include giving better error messages for some symbols and performing lazy architectural checks (put more symbols into C:@EXPORT_FAIL@ by default and then take them out if someone
actually tries to use them and an expensive check shows that they are usable on that platform).

=head2 Tag Handling Utility Functions

Since the symbols listed within C<%EXPORT_TAGS> must also appear in either C<@EXPORT> or C<@EXPORT_OK>, two utility functions are provided which allow you to easily add tagged sets of symbols to C<@EXPORT> or C<@EXPORT_OK>:

C<%EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);>

Exporter::export_tags('foo');     # add aa, bb and cc to @EXPORT
Exporter::export_ok_tags('bar');  # add aa, cc and dd to @EXPORT_OK

Any names which are not tags are added to C<@EXPORT> or C<@EXPORT_OK> unchanged but will trigger a warning (with C<-w>) to avoid misspelt tags names being silently added to C<@EXPORT> or C<@EXPORT_OK>. Future versions may make this a fatal error.

=head2 Generating Combined Tags

If several symbol categories exist in C<%EXPORT_TAGS>, it's usually useful to create the utility ":all" to simplify "use" statements.

The simplest way to do this is:

C<%EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);>

# add all the other ":class" tags to the ":all" class,
# deleting duplicates
{
  my %seen;

  push @{$EXPORT_TAGS{all}},
  grep {(!$seen{$_}++)} @{$EXPORT_TAGS{$_}} foreach keys %EXPORT_TAGS;
}

F<CGI.pm> creates an ":all" tag which contains some (but not really all) of its categories. That could be done with one small change:

# add some of the other ":class" tags to the ":all" class,
# deleting duplicates
{
  my %seen;

  push @{$EXPORT_TAGS{all}},
  grep {(!$seen{$_}++)} @{$EXPORT_TAGS{$_}}
}
foreach qw/html2 html3 netscape form cgi internal/;
}

Note that the tag names in C<%EXPORT_TAGS> don't have the leading ':'.

=head2 C<AUTOLOAD>ed Constants

Many modules make use of C<AUTOLOAD>ing for constant subroutines to avoid having to compile and waste memory on rarely used values (see L<perlsub> for details on constant subroutines). Calls to such constant subroutines are not optimized away at compile time because they can't be checked at compile time for constancy.

Even if a prototype is available at compile time, the body of the subroutine is not (it hasn't been C<AUTOLOAD>ed yet). perl needs to examine both the C<>() prototype and the body of a subroutine at compile time to detect that it can safely replace calls to that subroutine with the constant value.

A workaround for this is to call the constants once in a C<BEGIN> block:

    package My;
    use Socket;

    foo( SO_LINGER );  ## SO_LINGER NOT optimized away; called at runtime
    BEGIN { SO_LINGER }
    foo( SO_LINGER );  ## SO_LINGER optimized away at compile time.

This forces the C<AUTOLOAD> for C<SO_LINGER> to take place before SO_LINGER is encountered later in C<My> package.

If you are writing a package that C<AUTOLOAD>s, consider forcing an C<AUTOLOAD> for any constants explicitly imported by other packages or which are usually used when your package is C<use>d.

=head1 Good Practices

=head2 Declaring C<@EXPORT_OK> and Friends

When using C<Exporter> with the standard C<strict> and C<warnings> pragmas, the C<our> keyword is needed to declare the package variables C<@EXPORT_OK>, C<@EXPORT>, C<@ISA>, etc.

    our @ISA = qw(Exporter);
    our @EXPORT_OK = qw(munge frobnicate);

If backward compatibility for Perls under 5.6 is important,
one must write instead a `use vars` statement.

```perl
use vars qw(@ISA @EXPORT_OK);
@ISA = qw(Exporter);
@EXPORT_OK = qw(munge frobnicate);
```

=head2 Playing Safe

There are some caveats with the use of runtime statements like `require Exporter` and the assignment to package variables, which can be very subtle for the unaware programmer. This may happen for instance with mutually recursive modules, which are affected by the time the relevant constructions are executed.

The ideal (but a bit ugly) way to never have to think about that is to use `BEGIN` blocks. So the first part of the L</SYNOPSIS> code could be rewritten as:

```perl
package YourModule;

use strict;
use warnings;

our (@ISA, @EXPORT_OK);
BEGIN {
    require Exporter;
    @ISA = qw(Exporter);
    @EXPORT_OK = qw(munge frobnicate);  # symbols to export on request
}
```

The `BEGIN` will assure that the loading of `Exporter.pm` and the assignments to `@ISA` and `@EXPORT_OK` happen immediately, leaving no room for something to get awry or just plain wrong.

With respect to loading `Exporter` and inheriting, there are alternatives with the use of modules like `base` and `parent`.

```perl
use base qw(Exporter);
# or
use parent qw(Exporter);
```

Any of these statements are nice replacements for

```perl
BEGIN { require Exporter; @ISA = qw(Exporter); }
```

with the same compile-time effect. The basic difference is that `base` code interacts with declared `fields` while `parent` is a streamlined version of the older
C<base> code to just establish the IS-A relationship.

For more details, see the documentation and code of L<base> and L<parent>.

Another thorough remedy to that runtime vs. compile-time trap is to use L<Exporter::Easy>, which is a wrapper of Exporter that allows all boilerplate code at a single gulp in the use statement.

use Exporter::Easy (    OK => [ qw(munge frobnicate) ], );
# @ISA setup is automatic
# all assignments happen at compile time

=head2 What Not to Export

You have been warned already in L</Selecting What to Export> to not export:

=over 4
=item *
method names (because you don't need to and that's likely to not do what you want),
=item *
anything by default (because you don't want to surprise your users... badly)
=item *
anything you don't need to (because less is more)
=back

There's one more item to add to this list. Do B<not> export variable names. Just because C<Exporter> lets you do that, it does not mean you should.

@EXPORT_OK = qw($svar @avar %hvar); # DON'T!

Exporting variables is not a good idea. They can change under the hood, provoking horrible
effects at-a-distance that are too hard to track and to fix. Trust me: they are not worth it.

To provide the capability to set/get class-wide settings, it is best instead to provide accessors as subroutines or class methods instead.

=head1 SEE ALSO

C<Exporter> is definitely not the only module with symbol exporter capabilities. At CPAN, you may find a bunch of them. Some are lighter. Some provide improved APIs and features. Pick the one that fits your needs. The following is a sample list of such modules.

  Exporter::Easy
  Exporter::Lite
  Exporter::Renaming
  Exporter::Tidy
  Sub::Exporter / Sub::Installer
  Perl6::Export / Perl6::Export::Attrs

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=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1014324299_1591897088.49/0/perl-Exporter-5.72-396.el8.src.rpm-cosi-expand-archive-xuMh3qh9/Exporter-5.70.tar.gz-cosi-expand-archive-cId9ejdT/Exporter-5.70/lib/Exporter.pm

1.711 jaxen 1.2.11-wso2v11
1.711.1 Available under license :

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1.712 codemodel 2.6

1.713 go-autorest 0.11.2

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1.717 wso2-carbon-identity-user-profile-stub

5.12.153

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1.1.21

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1.739 wso2-carbon-apimgt-keymgt 6.4.50

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1.740 bzip2 1.0.6-26.el8

1.740.1 Available under license:

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

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

--------------------------------------------------------------------------
1.741 perl-data-dumper 2.167-399.el8

1.741.1 Available under license:

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

---
abstract: unknown
author:
  - unknown
build_requires:
  ExtUtils::MakeMaker: '0'
Test::More: '0.98'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 0
generated_by: 'ExtUtils::MakeMaker version 7.0401, CPAN::Meta::Converter version 2.150001'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Data-Dumper
no_index:
directory:
  - t
  - inc
requires: {}
resources:
  MailingList: http://lists.cpan.org/showlist.cgi?name=perl5-porters
  bugtracker: http://rt.perl.org/perlbug/
  repository: 'git://perl5.git.perl.org/perl.git perl-git'
version: '2.161'

Found in path(s):
No license file was found, but licenses were detected in source scan.

From 9f38b6c6f05086a67f0d92591f8e8de99bc1d9164 Mon Sep 17 00:00:00 2001
From: =?UTF-8?q?Petr=P=20Pa=C5=99?= <ppisar@redhat.com>
Date: Thu, 11 May 2017 09:25:35 +0200
Subject: [PATCH] Upgrade to 2.167
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Unbundled from perl-5.25.12.

Signed-off-by: Petr Písa <ppisar@redhat.com>
---
Changes  |  14 ++++++
Dumper.pm |  47 ++++++-------
Dumper.xs | 167 +++++++++++++++++++++++++++++++++++++++++++++---------------
t/bugs.t  | 37 ++++++++++++-
t/deparse.t|  22 ++++-
5 files changed, 207 insertions(+), 80 deletions(-)

diff --git a/Changes b/Changes
index f9ea53f..a5430d5 100644
--- a/Changes
+++ b/Changes
@@ -6,6 +6,20 @@ Changes - public release history for Data::Dumper

=over 8

+=item 2.166 (Nov 29 2016)
 +
+Reduce memory usage by not importing from Carp
+Reduce memory usage by removing unused overload require.
 +
+=item 2.165 (Nov 20 2016)
 +
+Remove impediment to compiling under C++11.
 +
+=item 2.164 (Nov 12 2016)
 +
+The XS implementation now handles the C<Deparse> option, so using it no
+longer forces use of the pure-Perl version.
 +
=item 2.161 (Jul 11 2016)

Perl 5.12 fix/workaround until fixed PPPort release.
diff --git a/Dumper.pm b/Dumper.pm
index c71ad35..00f6326 100644
--- a/Dumper.pm
+++ b/Dumper.pm
@@ -10,16 +10,15 @@
BEGIN {
-    $VERSION = '2.161'; # Don't forget to set version and release
+    $VERSION = '2.167'; # Don't forget to set version and release
       # date in POD below!

#$| = 1;

use 5.006_001;
require Exporter;
-use Carp;
+use Carp ();

BEGIN {
    @ISA = qw(Exporter);
    @@ -70.7 +69.7 @@ $Maxrecurse = 1000 unless defined $Maxrecurse;
    sub new {
        my($c, $v, $n) = @_;
        -croak "Usage:  PACKAGE->new(ARRAYREF, [ARRAYREF])"
        +Carp::croak("Usage:  PACKAGE->new(ARRAYREF, [ARRAYREF])")
        unless (defined($v) && (ref($v) eq 'ARRAY'));
        $n = [] unless (defined($n) && (ref($n) eq 'ARRAY'));
    }

    @@ -170.11 +169.11 @@ sub Seen {
        $s->{seen}{$id} = [$k, $v];
    }
    else {
        -carp "Only refs supported, ignoring non-ref item \$$k";
        +Carp::carp("Only refs supported, ignoring non-ref item \$$k");
    }
    else {
    }
    return $s;
    @@ -195.7 +194.7 @@ sub Values {
        return $s;
    }
    else {
        -croak "Argument to Values, if provided, must be array ref";
        +Carp::croak("Argument to Values, if provided, must be array ref");
    }
    else {
    }
    return $s;
    @@ -214.7 +213.7 @@ sub Names {
        return $s;
    }
    else {
        -croak "Argument to Names, if provided, must be array ref";
    }
Carp::croak("Argument to Names, if provided, must be array ref");
}
}
else {
@@ -227,7 +226,6 @@ sub DESTROY {}

sub Dump {
    return &Dumpxs
    unless $Data::Dumper::Useperl || (ref($_[0]) && $_[0]->{useperl})
    - || $Data::Dumper::Deparse || (ref($_[0]) && $_[0]->{deparse})

    # Use pure perl version on earlier releases on EBCDIC platforms
    || (!$S::ASCII && $]) lt 5.0.21_010);
@@ -439,7 +437,7 @@ sub _dump {
    if (ref($s->{sortkeys}) eq 'CODE') {
        $keys = $s->{sortkeys}($val);
        unless (ref($keys) eq 'ARRAY') {
-            carp "Sortkeys subroutine did not return ARRAYREF";
+            Carp::carp("Sortkeys subroutine did not return ARRAYREF");
            $keys = [];
        }
    }
@@ -487,16 +485,16 @@ sub _dump {
        require B::Deparse;
        my $sub = 'sub ' . (B::Deparse->new)->coderef2text($val);
        $pad    = $s->{sep} . $s->{pad} . $s->{apad} . $s->{xpad} x ($s->{level} - 1);
-        $sub    =~ s/
+        $sub    =~ s/
            $out   .=  $sub;
else {
    $out .= 'sub { "DUMMY" }';
-        carp "Encountered CODE ref, using dummy placeholder" if $s->{purity};
+        Carp::carp("Encountered CODE ref, using dummy placeholder") if $s->{purity};
    }
} else {
    croak "Can't handle '$realtype' type";
+    Carp::croak("Can't handle '$realtype' type");
    }
    if ($realpack and !$no_bless) { # we have a blessed ref
        require B::Deparse;
        my $s
        -        $I<<or> $I<OBJ>->Deparse($I<[NEWVAL]>)
+        $I<OBJ>->Deparse($I<[NEWVAL]>)

Can be set to a boolean value to control whether code references are turned into perl source code. If set to a true value, C<B::Deparse> will be used to get the source of the code reference. Using this option will force using the Perl implementation of the dumper, since the fast-XSUB implementation doesn't support it.
+will be used to get the source of the code reference. In older versions,
+using this option imposed a significant performance penalty when dumping
+parts of a data structure other than code references, but that is no
+longer the case.

Caution: use this option only if you know that your coderefs will be
properly reconstructed by C<B::Deparse>.
@@ -1435,15 +1434,9 @@ the C<Deparse> flag), an anonymous subroutine that
contains the string "DUMMY" will be inserted in its place, and a warning
will be printed if C<Purity> is set. You can C<eval> the result, but bear
in mind that the anonymous sub that gets created is just a placeholder.
-Someday, perl will have a switch to cache-on-demand the string
-representation of a compiled piece of code, I hope. If you have prior
-knowledge of all the code refs that your data structures are likely
-to have, you can use the C<Seen> method to pre-seed the internal reference
-table and make the dumped output point to them, instead. See L</EXAMPLES>
-above.
-
-The C<Deparse> flag makes Dump() run slower, since the XSUB
-implementation does not support it.
+Even using the C<Deparse> flag will in some cases produce results that
+behave differently after being passed to C<eval>; see the documentation
+for L<B::Deparse>.

SCALAR objects have the weirdest looking C<bless> workaround.

@@ -1466,13 +1459,13 @@ be to use the C<Sortkeys> filter of Data::Dumper.
@@ -1481,7 +1474,7 @@

Gurusamy Sarathy       gsar@activestate.com

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=head1 VERSION

-Version 2.161  (July 11 2016)
+Version 2.167  (January 4 2017)

=head1 SEE ALSO

diff --git a/Dumper.xs b/Dumper.xs
index b22088f..0e7142e 100644
--- a/Dumper.xs
+++ b/Dumper.xs
@@ -63,6 +63,7 @@ typedef struct {
I32 useqq;

Open Source Used In Connected-Pharma 1.5-UI & ServiceLayer 7754
int use_sparse_seen_hash;
int trailingcomma;
+ int deparse;
} Style;

static STRLEN num_q (const char *s, STRLEN slen);
@@ -369,7 +370,7 @@ esc_q_utf8(pTHX_ SV* sv, const char *src, STRLEN slen, I32 do_utf8, I32 useqq)
    UV k;

    if (do_utf8
-       && ! isASCII(*U8*)(s)
+       && ! isASCII(*s)
         /* Exclude non-ASCII low ordinal controls. This should be
         * optimized out by the compiler on ASCII platforms; if not
         * could wrap it in a #ifdef EBCDIC, but better to avoid
@@ -387,11 +388,11 @@ esc_q_utf8(pTHX_ SV* sv, const char *src, STRLEN slen, I32 do_utf8, I32 useqq)
         increment = (k == 0 && *s != '\0') ? 1 : UTF8_SKIP(s);

         #if PERL_VERSION < 10
-            sprintf(r, "\x{%%"UVxf"}", k);
+            sprintf(r, "\x{%% "UVxf"}", k);
             r += strlen(r);
             /* my_sprintf is not supported by ppport.h */
         #else
-            r = r + my_sprintf(r, "\x{%%"UVxf"}", k);
+            r = r + my_sprintf(r, "\x{%% "UVxf"}", k);
         #endif
         continue;
     }
@@ -505,6 +506,53 @@ sv_x(pTHX_ SV *sv, const char *str, STRLEN len, I32 n)
         return sv;
     }

+static SV *
+deparsed_output(pTHX_ SV *val)
+{
+    SV *text;
+    int n;
+    dSP;
+    + /* This is passed to load_module(), which decrements its ref count and
+           * modifies it (so we also can't reuse it below) */
+    + SV *pkg = newSVpvs("B::Deparse");
+    + load_module(PERL_LOADMOD_NOIMPORT, pkg, 0);
+    + SAVETMPS;
+    +
```c
+    PUSHMARK(SP);
+    mXPUSHs(newSVpvs("B::Deparse"));
+    PUTBACK;
+    n = call_method("new", G_SCALAR);
+    SPAGAIN;
+    if (n != 1) {
+        croak("B::Deparse->new returned %d items, but expected exactly 1", n);
+    }
+    PUSHMARK(SP - n);
+    XPUSHs(val);
+    PUTBACK;
+    n = call_method("coderef2text", G_SCALAR);
+    SPAGAIN;
+    if (n != 1) {
+        croak("$b_deparse->coderef2text returned %d items, but expected exactly 1", n);
+    }
+    text = POPs;
+    SvREFCNT_inc(text); /* the caller will mortalise this */
+    FREETMPS;
+    PUTBACK;
+    return text;
+
/*
 * This ought to be split into smaller functions. (it is one long function since
 * it exactly parallels the perl version, which was one long thing for
 *@@ -565,14 +613,14 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV *
 *seenhv,
         i = perl_call_method(SvPVX_const(style->freezer), G_EVAL|G_VOID|G_DISCARD);
         SPAGAIN;
         if (SvTRUE(ERRSV))
             -warn("WARNING(Freezer method call failed): %"SVf", ERRSV);
 +warn("WARNING(Freezer method call failed): %" SVf, ERRSV);
             PUTBACK; FREETMPS; LEAVE;
 }

 ival = SvRV(val);
 realtype = SvTYPE(ival);
 #ifdef DD_USE_OLD_ID_FORMAT
```
- idlen = my_snprintf(id, sizeof(id), "%x" UVxf, PTR2UV(ival));
+ idlen = my_snprintf(id, sizeof(id), "0x" UVxf, PTR2UV(ival));

#else
 id_buffer = PTR2UV(ival);
 idlen = sizeof(id_buffer);
@@ -630,7 +678,7 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV
         *seenhv,
         #ifdef DD_USE_OLD_ID_FORMAT
               warn("ref name not found for %s", id);
         #else
-            warn("ref name not found for 0x" UVxf, PTR2UV(ival));
+            warn("ref name not found for 0x" UVxf, PTR2UV(ival));
         #endif
         return 0;
 }
@@ -848,10 +896,10 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV
         *seenhv,
         ilen = inamelen;
         sv_setiv(ixsv, ix);
         #if PERL_VERSION < 10
-            (void) sprintf(iname+ilen, "%"IVdf, (IV)ix);
+            (void) sprintf(iname+ilen, "%" IVdf, (IV)ix);
         ilen = strlen(iname);
         #else
-            ilen = ilen + my_sprintf(iname+ilen, "%"IVdf, (IV)ix);
+            ilen = ilen + my_sprintf(iname+ilen, "%" IVdf, (IV)ix);
         #endif
         iname[ilen++] = '>'; iname[ilen] = '\0';
         if (style->indent >= 3) {
@@ -886,7 +934,7 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV
         *seenhv,
         SV *sname;
         HE *entry = NULL;
-        char *key;
+        STRLEN klen;
         AV *keys = NULL;

@@ -976,6 +1023,7 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV
         *seenhv,
         char *nkey_buffer = NULL;
         STRLEN nticks = 0;
         SV* keysv;
+        STRLEN klen;
         STRLEN keylen;
         STRLEN nlen;
         bool do_utf8 = FALSE;
@@ -1029,7 +1077,7 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV
         

if (style->quotekeys || key_needs_quote(key, keylen)) {
    if (do_utf8 || style->useqq) {
        STRLEN ocur = SvCUR(retval);
        nlen = esc_q_utf8(aTHX_ retval, key, klen, do_utf8, style->useqq);
        klen = nlen = esc_q_utf8(aTHX_ retval, key, klen, do_utf8, style->useqq);
        nkey = SvPVX(retval) + ocur;
        
        else {
            @ @ -1095,9 +1143,41 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV *
 *seenhv,
 SvREFCNT_dec(totpad);
         } else if (realtype == SVt_PVCV) {
            - sv_catpvs(retval, "sub { "DUMMY" }");
            - if (style->purity)
            - warn("Encountered CODE ref, using dummy placeholder");
            + if (style->deparse) {
            +     SV *deparsed = sv_2mortal(deparsed_output(aTHX_ val));
            +     SV *fullpad = sv_2mortal(newSVsv(style->sep));
            +     const char *p;
            +     STRLEN plen;
            +     I32 i;
            +
            +     sv_catsv(fullpad, style->pad);
            +     sv_catsv(fullpad, apad);
            +     for (i = 0; i < level; i++) {
            +         sv_catsv(fullpad, style->xpad);
            +     }
            +
            +     sv_catpvs(retval, "sub ");
            +     p = SvPV(deparsed, plen);
            +     while (plen > 0) {
            +         const char *nl = (const char *) memchr(p, '\n', plen);
            +         if (!nl) {
            +             sv_catpvn(retval, p, plen);
            +             break;
            +         }
            +         else {
            +             size_t n = nl - p;
            +             sv_catpvn(retval, p, n);
            +             sv_catsv(retval, fullpad);
            +             p += n + 1;
            +             plen -= n + 1;
            +         }
            +     }
            +
            +     } else {
+ sv_catpvsv(retval, "sub \{ "DUMMYV" \} ");
+ if (style->purity)
+   warn("Encountered CODE ref, using dummy placeholder");
+ }
} else {
  warn("cannot handle ref type \%d", (int)realtype);
@@ -1144,7 +1224,7 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV *seenhv,
    if (namelen) {
ifdef DD_USE_OLD_ID_FORMAT
-      idlen = my_snprintf(id, sizeof(id), "0x"UVxf, PTR2UV(val));
+      idlen = my_snprintf(id, sizeof(id), "0x"UVxf, PTR2UV(val));
#else
    id_buffer = PTR2UV(val);
    idlen = sizeof(id_buffer);
@@ -1184,9 +1264,9 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV *seenhv,
      if (DD_is_integer(val)) {
        STRLEN len;
      if (SvIsUV(val))
-        len = my_snprintf(tmpbuf, sizeof(tmpbuf), "%"UVuf, SvUV(val));
+        len = my_snprintf(tmpbuf, sizeof(tmpbuf), "%"UVuf, SvUV(val));
      else
        len = my_snprintf(tmpbuf, sizeof(tmpbuf), "%"IVdf, SvIV(val));
      if (SvPOK(val)) {
/* Need to check to see if this is a string such as " 0".
   I'm assuming from sprintf isn't going to clash with utf8. */
@@ -1412,53 +1492,55 @@ Data_Dumper_Dumpxs(href, ...)
               && (hv = (HV*)SvRV((SV*)href))
               && SvTYPE(hv) == SVt_PVHV){
      -if ((svp = hv_fetch(hv, "seen", 4, FALSE)) && SvROK(*svp))
+if ((svp = hv_fetchs(hv, "seen", FALSE)) && SvROK(*svp))
        seenhv = (HV*)SvRV(*svp);
      else
        style.use_sparse_seen_hash = 1;
      -if ((svp = hv_fetch(hv, "noseen", 6, FALSE)))
+if ((svp = hv_fetchs(hv, "noseen", FALSE)))
        style.use_sparse_seen_hash = (SvOK(*svp) && SvIV(*svp) != 0);
      -if ((svp = hv_fetch(hv, "todump", 6, FALSE)) && SvROK(*svp))
+if ((svp = hv_fetchs(hv, "todump", FALSE)) && SvROK(*svp))
        todumpav = (AV*)SvRV(*svp);
      -if ((svp = hv_fetch(hv, "names", 5, FALSE)) && SvROK(*svp))
+if ((svp = hv_fetchs(hv, "names", FALSE)) && SvROK(*svp))
        namesav = (AV*)SvRV(*svp);
if ((svp = hv_fetch(hv, "indent", 6, FALSE)))
  style.indent = SvIV(*svp);
if ((svp = hv_fetch(hv, "purity", 6, FALSE)))
  style.purity = SvIV(*svp);
if ((svp = hv_fetch(hv, "terse", 5, FALSE)))
  terse = SvTRUE(*svp);
if ((svp = hv_fetch(hv, "useqq", 5, FALSE)))
  style.useqq = SvTRUE(*svp);
if ((svp = hv_fetch(hv, "pad", 3, FALSE)))
  style.pad = *svp;
if ((svp = hv_fetch(hv, "xpad", 4, FALSE)))
  style.xpad = *svp;
if ((svp = hv_fetch(hv, "apad", 4, FALSE)))
  apad = *svp;
if ((svp = hv_fetch(hv, "sep", 3, FALSE)))
  style.sep = *svp;
if ((svp = hv_fetch(hv, "pair", 4, FALSE)))
  style.pair = *svp;
if ((svp = hv_fetch(hv, "varname", 7, FALSE)))
  varname = *svp;
if ((svp = hv_fetch(hv, "freezer", 7, FALSE)))
  style.freezer = *svp;
if ((svp = hv_fetch(hv, "toaster", 7, FALSE)))
  style.toaster = *svp;
if ((svp = hv_fetch(hv, "deepcopy", 8, FALSE)))
  style.deepcopy = SvTRUE(*svp);
if ((svp = hv_fetch(hv, "quotekeys", 9, FALSE)))
  style.quotekeys = SvTRUE(*svp);
    if ((svp = hv_fetch(hv, "trailingcomma", 13, FALSE)))
      style.trailingcomma = SvTRUE(*svp);
- if ((svp = hv_fetch(hv, "bless", 5, FALSE)))
  style.deparse = SvTRUE(*svp);
+if ((svp = hv_fetchs(hv, "bless", FALSE)))
    style.bless = *svp;
-if ((svp = hv_fetch(hv, "maxdepth", 8, FALSE)))
+if ((svp = hv_fetchs(hv, "maxdepth", FALSE)))
    style.maxdepth = SvIV(*svp);
-if ((svp = hv_fetch(hv, "maxrecurse", 10, FALSE)))
+if ((svp = hv_fetchs(hv, "maxrecurse", FALSE)))
    style.maxrecurse = SvIV(*svp);
-if ((svp = hv_fetch(hv, "sortkeys", 8, FALSE))) {
+if ((svp = hv_fetchs(hv, "sortkeys", FALSE))) {
    SV *sv = *svp;
    if (! SvTRUE(sv))
        style.sortkeys = NULL;
@@ -1525,9 +1607,10 @@ Data_Dumper_Dumpxs(href, ...)
 } else {
 STRLEN nchars;
-    sv_setpvn(name, "$", 1);
+    sv_setpvs(name, "$");
     sv_catsv(name, varname);
    -nchars = my_snprintf(tmpbuf, sizeof(tmpbuf), "%"IVdf, (IV)(i+1));
+    nchars = my_snprintf(tmpbuf, sizeof(tmpbuf), "%" IVdf,
+                      (IV)(i+1));
     sv_catpvn(name, tmpbuf, nchars);
 } }
@@ -1575,7 +1658,7 @@ Data_Dumper_Dumpxs(href, ...)
     sv_catpvs(retval, ",");
     sv_catsv(retval, style.sep);
 }
-    sv_setpvn(valstr, "", 0);
+    SvPCLEAR(valstr);
    if (gimme == G_ARRAY) {
        XPUSHs(sv_2mortal(retval));
    if (i < imax)/ not the last time thro ? */
 diff --git a/t/bugs.t b/t/bugs.t
index a440b0a..5db82da 100644
--- a/t/bugs.t
+++ b/t/bugs.t
@@ -12,7 +12,7 @@ BEGIN {
 }

 use strict;
-use Test::More tests => 15;
+use Test::More tests => 24;
 use Data::Dumper;


use strict;
use Data::Dumper;

my $want;
my $runtime = "runtime";
my $requires = "requires";
utf8::upgrade(my $runtime = $runtime);
utf8::upgrade(my $requires = $requires);
for my $run ($runtime, $runtime) {
    for my $req ($requires, $requires) {
        my $data = { $run => { $req => { foo => "bar" } } };
        local $Data::Dumper::Useperl = 1;
        # we want them all the same
        defined $want or $want = Dumper($data);
        is(Dumper( $data ), $want, "utf-8 indents");
        SKIP:
            {
                defined &Data::Dumper::Dumpxs
                or skip "No XS available", 1;
                local $Data::Dumper::Useperl = 0;
                is(Dumper( $data ), $want, "utf8-indents");
            }
    }
}

# EOF

diff --git a/t/deparse.t b/t/deparse.t
index c281fce..cddde8c 100644
--- a/t/deparse.t
+++ b/t/deparse.t
@@ -15,7 +15,7 @@ BEGIN {
    use strict;

    use Data::Dumper;

-use Test::More tests => 8;
+use Test::More tests => 16;
use lib qw(./lib);
use Testing qw(_dumptostr);

@@ -24,7 +24,9 @@ use Testing qw(_dumptostr);

note("\$Data::Dumper::Deparse and Deparse()");

-{}
+for my $useperl (0, 1) {
+    local $Data::Dumper::Useperl = $useperl;
+
    my ($obj, %dumps, $deparse, $starting);
    use strict;
    my $struct = { foo => "bar
baz", quux => sub { "fleem" } };
@@ -46,11 +48,11 @@ note("\$Data::Dumper::Deparse and Deparse()");
        "No previous setting and \$Data::Dumper::Deparse = 0 are equivalent (useperl=$useperl)"),
    is($dumps{'noprev'}, $dumps{'objzero'},
        "No previous setting and Deparse() are equivalent (useperl=$useperl)"),
    is($dumps{'noprev'}, $dumps{'objzero'},
        "No previous setting and Deparse(0) are equivalent (useperl=$useperl)"),
    local $Data::Dumper::Deparse = 1;
    $obj = Data::Dumper->new( [ $struct ] );
@@ -62,19 +64,19 @@ note("\$Data::Dumper::Deparse and Deparse()");
        "$Data::Dumper::Deparse = 1 and Deparse(1) are equivalent (useperl=$useperl)"),
    isnt($dumps{'dddzero'}, $dumps{'objone'},
        "$Data::Dumper::Deparse = 0 differs from \$Data::Dumper::Deparse(1) are equivalent (useperl=$useperl)"),
    like($dumps{'dddzero'},
        qr/quux.*?sub.*?DUMMY/s,
        "$Data::Dumper::Deparse = 0 reports DUMMY instead of deparsing coderef"),
+    "$Data::Dumper::Deparse = 0 reports DUMMY instead of deparsing coderef (useperl=$useperl)"),
    unlike($dumps{'dddtrue'},
        qr/quux.*?sub.*?DUMMY/s,
- "$Data::Dumper::Deparse = 1 does not report DUMMY");
+ "$Data::Dumper::Deparse = 1 does not report DUMMY (useperl=$useperl)");
   like($dumps{'dddtrue'},
      qr/quux.*?sub.*?use\sstrict.*?fleem/s,
- "$Data::Dumper::Deparse = 1 deparses coderef");
+ "$Data::Dumper::Deparse = 1 deparses coderef (useperl=$useperl)");
}

--

2.9.3

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*
------------------------------------------------------------------------

ppport.h -- Perl/Pollution/Portability Version 3.31

 Automatically created by Devel::PPPort running under perl 5.022001.

 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

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.31

=head1 SYNOPSIS

perl ppport.h [options] [source files]

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

  --help
       show short help

  --version
       show version
--patch=I<file> write one patch file with changes
--copy=I<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

--strip strip all script and doc functionality from ppport.h

--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 5.20.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=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. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option
argument.

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⟨ppport.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⟨ppport.h⟩ if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F⟨ppport.h⟩ will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F⟨ppport.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. Warnings will still be displayed.

=head2 --nochanges

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

=heat2 --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 --strip

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=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 or warnings 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.

=over 4
=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 pppport.h --list-provided

to see which API elements are provided by pppport.h.
You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<\texttt{PL}\_> prefix is deprecated. Also, some API functions used to have a C<\texttt{perl}\_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<\texttt{ppport.h}> will provide wrappers for older Perl versions.

If you use one of a few functions or variables 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<\texttt{\#define}>s in your source code before the inclusion of F<\texttt{ppport.h}>.

These functions or variables will be marked C<\texttt{explicit}> in the list shown by C<--list-provided>>.

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

For a C<\texttt{static}> function or variable (used only in a single source file), use:

```c
#define NEED\_function
#define NEED\_variable
```

For a global function or variable (used in multiple source files), use:

```c
#define NEED\_function\_GLOBAL
#define NEED\_variable\_GLOBAL
```

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

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>caller_cx()</td>
<td>NEED_caller_cx</td>
<td>NEED_caller_cx_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables 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_>.

=back

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.

If you want to create patched copies of your files instead, use:

    perl ppport.h --copy=.new

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 `PPport.h` is causing failure during the compilation of this module, please check if newer versions of either this module or `Devel::PPPort` are available on CPAN before sending a bug report.

If `PPport.h` was generated using the latest version of `Devel::PPPort` and is causing failure of this module, please file a bug report here: L<https://github.com/mhx/Devel-PPPort/issues/>

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 `Devel::PPPort` module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2013, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.
use strict;

# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.31;

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

my($ppport) = $0 =~ /\([\w.]+)$/;
my $LF = '(?:\r\n|[^\r\n])';   # line feed
my $HS = '[ \t]';             # horizontal whitespace

# Never use C comments in this file!
my $ccs  = '/.*';
my $cce  = '.*/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
  require Getopt::Long;
  Getopt::Long::GetOptions(%opt, qw( 
      help quiet diag filter hints changes cplusplus strip version 
      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)?$/;
  die "Getopt::Long not found. Please don't use any options\n";
}
if ($opt{version}) {
    print "This is $0 $VERSION.\n";
    exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

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;
}

my %API = map { /^\w+/(([^|]*)|([^|]*)|([^|]*)|[^\n])$/
    ? ( 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(
ASCII_TO_NEED\nAvFILLp\nAvFILL\nBhkDISABLE\nBhkENABLE\nBhkENTRY_set\nBhkENTRY\nBhkFLAGS\nCALL_BLOCK_HOOKS\nCLASS\nCPERLscope\nCX_CURPAD_SAVE\nCX_CURPAD_SV\nCopFILEAV\nCopFILEGV_set\nCopFILEGV\nCopFILESV
);
HvENAMELEN\|5.015004\|
HvENAMEUTF8\|5.015004\|
HvENAME\|5.013007\|
HvNAMELEN_get\|5.009003\|p
HvNAMELEN\|5.015004\|
HvNAMEUTF8\|5.015004\|
HvNAME_get\|5.009003\|p
HvNAME||
INT2PTR\|5.006000\|p
IN_LOCALE_COMPILETIME\|5.007002\|p
IN_LOCALE_RUNTIME\|5.007002\|p
IN_LOCALE\|5.007002\|p
IN_PERL_COMPILETIME\|5.008001\|p
IS_NUMBER_GREATER_THAN_UV_MAX\|5.007002\|p
IS_NUMBER_INFINITY\|5.007002\|p
IS_NUMBER_IN_UV\|5.007002\|p
IS_NUMBER_NAN\|5.007003\|p
IS_NUMBER_NEG\|5.007002\|p
IS_NUMBER_NOT_INT\|5.007002\|p
IVSIZE\|5.006000\|p
IVTYPE\|5.006000\|p
IVdf\|5.006000\|p
LEAVE||
LINKLIST\|5.013006\|
LVRET||
MARK||
MULTICAL\|5.021008\|
MUTABLE_PTR\|5.0100001\|p
MUTABLE_SV\|5.0100001\|p
MY_CXT_CLONE\|5.009002\|p
MY_CXT_INIT\|5.007003\|p
MY_CXT\|5.007003\|p
MoveD\|5.009002\|5.004050\|p
Move||
NATIVE_TO_NEED\|5.007001\|n
NOOP\|5.005000\|p
NUM2PTR\|5.006000\|p
NVTYPE\|5.006000\|p
NVef\|5.006001\|p
NVrf\|5.006001\|p
NVgf\|5.006001\|p
Newxc\|5.009003\|p
Newxz\|5.009003\|p
Newx\|5.009003\|p
Nullav||
Nullch||
Nullcv||
Nullhv||
Open Source Used In Connected-Pharma 1.5-UI & ServiceLayer 7776
PERL_SHORT_MAX|5.003070||p
PERL_SHORT_MIN|5.003070||p
PERL_SIGNALS_UNSAFE_FLAG|5.008001||p
PERL_SUBVERSION|5.006000||p
PERL_SYS_INIT3|5.006000|
PERL_SYS_INIT|||
PERL_SYS_TERM|5.021008|
PERL_UCHAR_MAX|5.003070||p
PERL_UCHAR_MIN|5.003070||p
PERL_UINT_MAX|5.003070||p
PERL_UINT_MIN|5.003070||p
PERL ULONG_MAX|5.003070||p
PERL ULONG_MIN|5.003070||p
PERL_UNUSED_ARG|5.009003||p
PERL_UNUSED_CONTEXT|5.009004||p
PERL_UNUSED_DECL|5.007002||p
PERL_UNUSED_VAR|5.007002||p
PERL_UQUAD_MAX|5.003070||p
PERL_UQUAD_MIN|5.003070||p
PERL_USE_GCC_BRACE_GROUPS|5.009004||p
PERL_USHORT_MAX|5.003070||p
PERL_USHORT_MIN|5.003070||p
PERL_VERSION|5.006000||p
PL_DBsignal|5.005000||p
PL_DBsingle||pn
PL_DBsub||pn
PL_DBtrace||pn
PL_Sv|5.005000||p
PL_bufend|5.021008||p
PL_bufptr|5.021008||p
PL_check|5.006000|
PL_compiling|5.004050||p
PL_comppad_name|5.017004|
PL_comppad|5.008001|
PL_copline|5.021008||p
PL_curcop|5.004050||p
PL_curpad|5.005000|
PL_curstash|5.004050||p
PL_debstash|5.004050||p
PL_diehook|5.004050||p
PL_dirty|5.004050||p
PL dowarn|pn
PL errgv|5.004050||p
PL_error_count|5.021008||p
PL expect|5.021008||p
PL hexdigit|5.005000||p
PL hints|5.005000||p
PerlIO_set_cnt||5.007003|
PerlIO_set_ptrcnt||5.007003|
PerlIO_setlinebuf||5.007003|
PerlIO_stderr||5.007003|
PerlIO_stdin||5.007003|
PerlIO_stdout||5.007003|
PerlIO_tell||5.007003|
PerlIO_unread||5.007003|
PerlIO_write||5.007003|
PerlIO_signbit||5.009005|n
PoisonFree|5.009004||p
PoisonNew|5.009004||p
PoisonWith|5.009004||p
Poison|5.008000||p
READ_XDIGIT||5.017006|
RETVEN||n
Renewc||
Renew||
SAVECLEAR|5.009004|
SAVECOMPPAD||
SAVEPADS||
SAVETMPS||
SAVE_DEF|5.004050||p
SPAGAIN||
SP||
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sortsv|5.007003|
space_join_names_mortal||
ss_dup||
ssc_add_range||
ssc_and||
ssc_anything||
ssc_clear_locale||
ssc_cp_and||
ssc_finalize||
ssc_init||
ssc_intersection||
ssc_is_anything||
ssc_is_cp_posixl_init||
ssc_or||
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start_subparse|5.004000|
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study_chunk||
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sv_2iv_flags|5.009001|
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sv_2nv_flags|5.013001|
sv_2pv_flags|5.007002|
sv_2pv_nolen|5.006000|
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sv_del_backref
sv_derived_from_pvn
sv_derived_from_pv
sv_derived_from_sv
sv_derived_from
sv_destroyable
sv_display
sv_does_pvn
sv_does_pv
sv_does_sv
sv_does
sv_dump
sv_dup_common
sv_dup_inc_multiple
sv_dup_inc
sv_eq_flags
sv_eq
sv_expGrow
sv_force_normal_flags
sv_force_normal
sv_free2
sv_free_arenas
sv_free
sv_get_backrefs
sv_gets
sv_grow
sv_incmp
sv_inc_nomg
sv_inc
sv_insert_flags
sv_insert
sv_isa
sv_isobject
sv_iv
sv_kill_backrefs
sv_len_utf8_nomg
sv_len_utf8
sv_len
sv_magic_portable
sv_magicext_mglob
sv_magicext
sv_magic
sv_mortalcopy_flags
sv_mortalcopy
sv_newmortal
sv_newref
too_many_arguments_pv
translate_substr_offsets
try_amagic_bin
try_amagic_un
uiv_2buf
unlnk
unpack_rec
unpack_str
unpackstring
unreferenced_to_tmp_stack
unshare_hek_or_pvn
unshare_hek
unsharepvn
unwind_handler_stack
update_debugger_info
upg_version
usage
utf16_textfilter
utf16_to_utf8_reversed
utf16_to_utf8
utf8_distance
utf8_hop
utf8_length
utf8_mg_len_cache_update
utf8_mg_pos_cache_update
utf8_to_bytes
utf8_to_uvchr_buf
utf8_to_uvchr
utf8_to_uvuni_buf
utf8_to_uvuni
utf8n_to_uvchr
utf8n_to_uvuni
utilize
uvchr_to_utf8_flags
uvchr_to_utf8
uvoffuni_to_utf8_flags
uvuni_to_utf8_flags
uvuni_to_utf8
valid_utf8_to_uvchr
valid_utf8_to_uvuni
validate_proto
validate_suid
varname
vcmp
vcroak
vdeb
vform
visit
if (exists $opt{'list-unsupported'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless API{$f}{todo};
        print "$f", ":", format_version(API{$f}{todo}), "n";
    }
    exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n
}
undef $define;
}
}
$define = [$1, $2] if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};
if ($function) {
if (/^}/) {

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if (exists $API{$function->[0]}) {
    my @n = find_api($function->[1]);
    push @ { $depends{$function->[0]} }, @n if @n
}
undef $function;

} else {
    $function->[1] .= $_;
}

$function = [$_, ] if m{'DPPP_(my_(\w+))'};

$replace     = $1 if m{'$s*rcce\s+Replace: \s+(\d+)\s+rcce\s*$'};
$replace{$2} = $1 if $replace and m{'\$s*define\s+(\w+)\s+\$rcce\s*\$'};
$replace{$2} = $1 if m{'\$s*rcce\s+Replace\s+(\w+)\s+\$rcce\s*\$'};
$replace{$1} = $2 if m{'\$s*rcce\s+Replace \s+(\w+)\s+\$rcce\s*\$'};

if (m{'\$s*rcce\s+(\w+)\s+depends\s+(\w+)\s+rcce\s*\$'}) {
    my @deps = map { s/\s+//g; $_ } split /,/, $3;
    my $d;
    for $d (map { s/\s+//g; $_ } split /,/, $1) {
        push @{$depends{$d}}, @deps;
    }
}

$need{$1} = 1 if m{'#if \s+defined\(NEED_(\w+)\)?_GLOBAL\)\?'};

} for (values %depends) {
    my %s;
    $_= [sort grep !$s{$_}++, @$_];
}

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) {
        next unless $f =~ /$match/;
        print "\n=== $f ===\n\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 ($need{$_}) {
    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) {
        next unless $f =~ /$match/;
        print "\n=== $f ===\n\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++;
        }
    }
}
my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
print "Support by $ppport provided back to perl-$todo.
";
print "Support needs to be explicitly requested by NEED_$f\n" if exists $need{$f};
print "Depends on: ", join(’,’, @{$depends{$f}}), ".\n" if exists $depends{$f};
print "\nHints\n" if exists $hints{$f};
print "\n\nWARNING:\nWarnings\n" if exists $warnings{$f};
$info++;
}
print "No portability information available.\n" unless $info;
$count++;
}
Scout or print "Found no API matching ‘$opt{‘api-info’}.’.;
print "\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};
    push @flags, ‘warning’ if exists $warnings{$f};
    my $flags = @flags ? ‘\[’.join(’,’, @flags).’\]’ : ‘’;
    print "$f$flags\n";
  }
  exit 0;
}

my @files;
my @srcext = qw(.xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join ‘|’, map { quotemeta $_ } @srcext;

if (@ARGV) {
  my %seen;
  for (@ARGV) {
    if (-e) {
      if (-f) {
        push @files, $_ unless $seen{$_}++;
      } else { warn ”$._ is not a file.\n” }
    } else {
      my @new = grep { -f } glob $_
      or warn ”$._ does not exist.\n”;
      push @files, grep { !$seen{$_}++ } @new;
    }
  }
}
}
}
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;
}
die "No input files given!\n" unless @files;
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> };
close IN;
my %file = (orig => $c, changes => 0);

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# Temporarily remove C/XS comments and strings from the code
my @ccom;

$c = s{
  (^\$\ HS*#\ $H S*include\b[^\r\n]+\b(?:QSppport\E|XSUB\b)\b[^\r\n]*
  | ^\$\ HS*#\ $H S*(?:define|elif|if(?::def)?\)\b[^\r\n]*)
  | "^[^\r\n]*")
  | "^[\r\n]*")
  | /(?\:\[^\r\n]*\+[?:[^\r\n]+\]*/[^\r\n]*)
}i

defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs $#ccom $cce" }mgsex;

$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^\$\ HS*#\ $H S*include[^\r\n]+\bQSppport\E\b/m;

my $func;

for $func (keys %API) {
  my $match = $func;
  $match .= "\$revreplace{$func}" if exists $revreplace{$func};
  if ($c =~ Ab\?:Perl\(_\)?($match)\b/) {
    $file{uses_replace}{$func}++ if exists $revreplace{$func} &amp; $1 eq $revreplace{$func};
    $file{uses_Perl}{$func}++ if $c =~ AbPerl_$func\b/;
    if (exists $API{$func}{provided}) {
      $file{uses_provided}{$func}++;
      if (exists $API{$func}{base} || $API{$func}{base} &amp; 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) {
          $file{needs}{$_.} = 'static' if exists $need{$_.};
        }
      }
    }
    if (exists $API{$func}{todo} &amp; $API{$func}{todo} &amp; Opt{'compat-version'}) {
      if ($c =~ /\$func/) {
        $file{uses_todo}{$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;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");
my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;
for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {
unless ($API{$func}{nothxarg}) {

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my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*?!aTHX_\?)(?!aTHX\: \:aTHX_\: \:aTHX_\:) \$2 \}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\(\s*?!aTHX_\?\)\$func\$1\(\)}{$func$1(}g);  
}  
}  
for $func (sort keys %{$file{uses_replace}}) {  
  warning("Uses $func instead of $replace{$func}");  
  $file{changes} += ($c =~ s{\bPerl_$func\(\s*?!aTHX_\?\)\$func\$1\(\)}{$func$1(}g);  
}  
for $func (sort keys %{$file{uses_provided}}) {  
  if ($file{uses}{$func}) {  
    if (exists $file{uses_deps}{$func}) {  
      diag("Uses $func, which depends on ", join(',', @{$file{uses_deps}{$func}}));  
    }  
    else {  
      diag("Uses $func");  
    }  
  }  
  $warnings += hint($func);  
}  

unless ($opt{quiet}) {  
  for $func (sort keys %{$file{uses_todo}}) {  
    print "*** WARNING: Uses $func, which may not be portable below perl ",  
    format_version($API{$func}{todo}), ", even with \\
ppport\un";  
    $warnings++;  
  }  
}  

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");
            }
            else {
                diag("File needs $func, adding static request");
            }
            $pp .= "$define NEED_$func$suffix\n";
        }
    }
    if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+$NEED_\w+/\$pp/m)) {
        $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$ppport\E.*?$LF//m);
    } else {
    }
}

# put back in our C comments
my $six;
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/$ccs$ccom[$ix] $cce/;
    } else {
        $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
    }
}

if ($cppc) {
    my $s = $cppc != 1 ? 's' : ":
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings ! 1 ? 's' : ":
my $warn = $warnings ? "$ (warnings warning$s)" : "
info("Analysis completed\n$warn");

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: $!");
    }
}
}
elifs (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 try_use { eval "use @_;"; return $@ eq "" }

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

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

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

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

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

    if (!$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 $tmp |") {
    while (<F>) {
      s/$tmp/E/$file.patched/;
      $diff .= $_;
    }
    close F;
    unlink $tmp;
    return $diff;
  }

  unlink $tmp;
} else {
  error("Cannot open 'Stmp' for writing: $!");
}

return undef;

sub rec_depend {
  my($func, $seen) = @_;;
  return () unless exists $depends{$func};
  $seen = {%{$seen||{}}};
  return () if $seen->{$func}++;;
  my %s;
  grep !s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$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\un":
  }

  $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;

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$opt{diag} and print @_, "\n";
}
sub warning
{
$opt{quiet} and return;
print "*** ", @_, "\n";
}
sub error
{
print "*** ERROR: ", @_, "\n";
}
my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
my $warn = $warnings{$func};
$warn =~ s!^!*** !mg;
print "*** WARNING: $func\n", $warn;
$rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($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
See perldoc $0 for details.

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sub strip
{
    my $self = do { local(@ARGV,$/)=($0); <> };
    my($copy) = $self =~ /^=head\d\s+COPYRIGHT\w*\^\(\.*\)^\w+=\w+/ms;
    $copy =~ s/^(?=\S+)/    /gms;
    $self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
    $self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if (@ARGV & & \$ARGV[0] eq '--unstrip') {
    eval { require Devel::PPPort };
    \$@ and die "Cannot require Devel::PPPort, please install.\n";
    if (eval \$Devel::PPPort::VERSION < \$VERSION) {
        die "$0 was originally generated with Devel::PPPort \$VERSION.\n" . "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\n" . "Please install a newer version, or --unstrip will not work.\n";
    }
    Devel::PPPort::WriteFile($0);
    exit 0;
}
print <<END;
Sorry, but this is a stripped version of \$0.
To be able to use its original script and doc functionality,
please try to regenerate this file using:

\$^X \$0 --unstrip
END

my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
$c =~ s{[\(\?:\.[^*]\[*]+(\?:[^$ccs][^*]+\*)? / | /[^\n]*}gsex;
$c =~ s!^\s+!!mg;
open OUT, ">$0" or die "cannot strip $0: $!
";
print OUT "$pl\$c\n";
exit 0;
}

__DATA__
*/

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=head1 NAME

Data::Dumper - stringified perl data structures, suitable for both printing and C<eval>

=head1 SYNONYMS

use Data::Dumper;

# simple procedural interface
print Dumper($foo, $bar);

# extended usage with names
print Data::Dumper->Dump([$foo, $bar], [qw(foo *ary)]);

# configuration variables
{
  local $Data::Dumper::Purity = 1;
  eval Data::Dumper->Dump([$foo, $bar], [qw(foo *ary)]);
}

# OO usage
$dd = Data::Dumper->new([$foo, $bar], [qw(foo *ary)]);
...
print $dd->Dump;
...
$dd->Purity(1)->Terse(1)->Deepcopy(1);
eval $dd->Dump;

=head1 DESCRIPTION

Given a list of scalars or reference variables, writes out their contents in perl syntax. The references can also be objects. The content of each variable is output in a single Perl statement. Handles self-referential structures correctly.

The return value can be C<eval>ed to get back an identical copy of the
original reference structure. (Please do consider the security implications of eval'ing code from untrusted sources!)

Any references that are the same as one of those passed in will be named C<$VAR>I<n> (where I<n> is a numeric suffix), and other duplicate references to substructures within C<$VAR>I<n> will be appropriately labeled using arrow notation. You can specify names for individual values to be dumped if you use the C<Dump()> method, or you can change the default C<$VAR> prefix to something else. See C<$Data::Dumper::Varname> and C<$Data::Dumper::Terse> below.

The default output of self-referential structures can be C<eval>ed, but the nested references to C<$VAR>I<n> will be undefined, since a recursive structure cannot be constructed using one Perl statement. You should set the C<Purity> flag to 1 to get additional statements that will correctly fill in these references. Moreover, if C<eval>ed when strictures are in effect, you need to ensure that any variables it accesses are previously declared.

In the extended usage form, the references to be dumped can be given user-specified names. If a name begins with a C<*>, the output will describe the dereferenced type of the supplied reference for hashes and arrays, and coderefs. Output of names will be avoided where possible if the C<Terse> flag is set.

In many cases, methods that are used to set the internal state of the object will return the object itself, so method calls can be conveniently chained together.

Several styles of output are possible, all controlled by setting the C<Indent> flag. See L<Configuration Variables or Methods> below for details.

=head2 Methods

=over 4

=item I<PACKAGE>->new(I<ARRAYREF [>, I<ARRAYREF]>)

Returns a newly created C<Data::Dumper> object. The first argument is an anonymous array of values to be dumped. The optional second argument is an anonymous array of names for the values. The names need not have a leading C<$> sign, and must be comprised of alphanumerical characters. You can begin a name with a C<* > to specify that the dereferenced type must be dumped instead of the reference itself, for ARRAY and HASH references.

The prefix specified by C<$Data::Dumper::Varname> will be used with a numeric suffix if the name for a value is undefined.
Data::Dumper will catalog all references encountered while dumping the values. Cross-references (in the form of names of substructures in perl syntax) will be inserted at all possible points, preserving any structural interdependencies in the original set of values. Structure traversal is depth-first, and proceeds in order from the first supplied value to the last.

=item I<$OBJ>->Dump  I<or>  I<PACKAGE>->Dump(I<ARRAYREF [>, I<ARRAYREF]>)

Returns the stringified form of the values stored in the object (preserving the order in which they were supplied to C<new>), subject to the configuration options below. In a list context, it returns a list of strings corresponding to the supplied values.

The second form, for convenience, simply calls the C<new> method on its arguments before dumping the object immediately.

=item I<$OBJ>->Seen(I<[HASHREF]>)

Queries or adds to the internal table of already encountered references. You must use C<Reset> to explicitly clear the table if needed. Such references are not dumped; instead, their names are inserted wherever they are encountered subsequently. This is useful especially for properly dumping subroutine references.

Expects an anonymous hash of name => value pairs. Same rules apply for names as in C<new>. If no argument is supplied, will return the "seen" list of name => value pairs, in a list context. Otherwise, returns the object itself.

=item I<$OBJ>->Values(I<[ARRAYREF]>)

Queries or replaces the internal array of values that will be dumped. When called without arguments, returns the values as a list. When called with a reference to an array of replacement values, returns the object itself. When called with any other type of argument, dies.

=item I<$OBJ>->Names(I<[ARRAYREF]>)

Queries or replaces the internal array of user supplied names for the values that will be dumped. When called without arguments, returns the names. When called with an array of replacement names, returns the object itself. If the number of replacement names exceeds the number of values to be named, the excess names will not be used. If the number of replacement names falls short of the number of values to be named, the list of replacement names will be exhausted and remaining values will not be renamed. When called with any other type of argument, dies.
=item $OBJ->Reset

Clears the internal table of "seen" references and returns the object itself.

=back

=head2 Functions

=over 4

=item Dumper(I<LIST>)

Returns the stringified form of the values in the list, subject to the configuration options below. The values will be named C<$VAR>I<n> in the output, where I<n> is a numeric suffix. Will return a list of strings in a list context.

=back

=head2 Configuration Variables or Methods

Several configuration variables can be used to control the kind of output generated when using the procedural interface. These variables are usually C<localized> in a block so that other parts of the code are not affected by the change.

These variables determine the default state of the object created by calling the C<new> method, but cannot be used to alter the state of the object thereafter. The equivalent method names should be used instead to query or set the internal state of the object.

The method forms return the object itself when called with arguments, so that they can be chained together nicely.

=over 4

=item *

$Data::Dumper::Indent  I<or>  I<$OBJ->Indent(I<[NEWVAL]>)

 Controls the style of indentation. It can be set to 0, 1, 2 or 3. Style 0 spews output without any newlines, indentation, or spaces between list items. It is the most compact format possible that can still be called valid perl. Style 1 outputs a readable form with newlines but no fancy indentation (each level in the structure is simply indented by a fixed amount of whitespace). Style 2 (the default) outputs a very readable form
which takes into account the length of hash keys (so the hash value lines up). Style 3 is like style 2, but also annotates the elements of arrays with their index (but the comment is on its own line, so array output consumes twice the number of lines). Style 2 is the default.

=item *

$Data::Dumper::Trailingcomma  I<or>  I<$OBJ>-Trailingcomma(I<[NEWVAL]>)

Controls whether a comma is added after the last element of an array or hash. Even when true, no comma is added between the last element of an array or hash and a closing bracket when they appear on the same line. The default is false.

=item *

$Data::Dumper::Purity  I<or>  I<$OBJ>-Purity(I<[NEWVAL]>)

Controls the degree to which the output can be eval-ed to recreate the supplied reference structures. Setting it to 1 will output additional perl statements that will correctly recreate nested references. The default is 0.

=item *

$Data::Dumper::Pad  I<or>  I<$OBJ>-Pad(I<[NEWVAL]>)

Specifies the string that will be prefixed to every line of the output. Empty string by default.

=item *

$Data::Dumper::Varname  I<or>  I<$OBJ>-Varname(I<[NEWVAL]>)

Contains the prefix to use for tagging variable names in the output. The default is "VAR".

=item *

$Data::Dumper::Useqq  I<or>  I<$OBJ>-Useqq(I<[NEWVAL]>)

When set, enables the use of double quotes for representing string values. Whitespace other than space will be represented as C<\n\t\r>, "unsafe" characters will be backslashed, and unprintable characters will be output as quoted octal integers. The default is 0.
When set, Data::Dumper will emit single, non-self-referential values as atoms/terms rather than statements. This means that the \$VAR\n names will be avoided where possible, but be advised that such output may not always be parseable by C<eval>.

=item *

$Data::Dumper::Freezer I<or> $OBJ->Freezer(\[NEWVAL\])

Can be set to a method name, or to an empty string to disable the feature. Data::Dumper will invoke that method via the object before attempting to stringify it. This method can alter the contents of the object (if, for instance, it contains data allocated from C), and even rebless it in a different package. The client is responsible for making sure the specified method can be called via the object, and that the object ends up containing only perl data types after the method has been called. Defaults to an empty string.

If an object does not support the method specified (determined using UNIVERSAL::can()) then the call will be skipped. If the method dies a warning will be generated.

=item *

$Data::Dumper::Toaster I<or> $OBJ->Toaster(\[NEWVAL\])

Can be set to a method name, or to an empty string to disable the feature. Data::Dumper will emit a method call for any objects that are to be dumped using the syntax \<bless(DATA, CLASS)-E<gt>METHOD()>. Note that this means that the method specified will have to perform any modifications required on the object (like creating new state within it, and/or reblessing it in a different package) and then return it. The client is responsible for making sure the method can be called via the object, and that it returns a valid object. Defaults to an empty string.

=item *

$Data::Dumper::Deepcopy I<or> \$OBJ->Deepcopy(\[NEWVAL\])

Can be set to a boolean value to enable deep copies of structures. Cross-referencing will then only be done when absolutely essential (i.e., to break reference cycles). Default is 0.

=item *

$Data::Dumper::Quotekeys I<or> $OBJ->Quotekeys(\[NEWVAL\])
Can be set to a boolean value to control whether hash keys are quoted. A defined false value will avoid quoting hash keys when it looks like a simple string. Default is 1, which will always enclose hash keys in quotes.

=item *

$Data::Dumper::Bless  I<or>  $I<OBJ>->Bless(I<[NEWVAL]>)

Can be set to a string that specifies an alternative to the C<bless> builtin operator used to create objects. A function with the specified name should exist, and should accept the same arguments as the builtin. Default is C<bless>.

=item *

$Data::Dumper::Pair  I<or>  $I<OBJ>->Pair(I<[NEWVAL]>)

Can be set to a string that specifies the separator between hash keys and values. To dump nested hash, array and scalar values to JavaScript, use: C<$Data::Dumper::Pair = ' : ';>. Implementing C<bless> in JavaScript is left as an exercise for the reader. A function with the specified name exists, and accepts the same arguments as the builtin.

Default is: C< =E<gt> >.

=item *

$Data::Dumper::Maxdepth  I<or>  $I<OBJ>->Maxdepth(I<[NEWVAL]>)

Can be set to a positive integer that specifies the depth beyond which we don't venture into a structure. Has no effect when C<$Data::Dumper::Purity> is set. (Useful in debugger when we often don't want to see more than enough). Default is 0, which means there is no maximum depth.

=item *

$Data::Dumper::Maxrecurse  I<or>  $I<OBJ>->Maxrecurse(I<[NEWVAL]>)

Can be set to a positive integer that specifies the depth beyond which recursion into a structure will throw an exception. This is intended as a security measure to prevent perl running out of stack space when dumping an excessively deep structure. Can be set to 0 to remove the limit. Default is 1000.
Can be set to a boolean value which controls whether the pure Perl implementation of Data::Dumper is used. The Data::Dumper module is a dual implementation, with almost all functionality written in both pure Perl and also in XS ('C'). Since the XS version is much faster, it will always be used if possible. This option lets you override the default behavior, usually for testing purposes only. Default is 0, which means the XS implementation will be used if possible.

=item *

Can be set to a boolean value to control whether hash keys are dumped in sorted order. A true value will cause the keys of all hashes to be dumped in Perl's default sort order. Can also be set to a subroutine reference which will be called for each hash that is dumped. In this case Data::Dumper will call the subroutine once for each hash, passing it the reference of the hash. The purpose of the subroutine is to return a reference to an array of the keys that will be dumped, in the order that they should be dumped. Using this feature, you can control both the order of the keys, and which keys are actually used. In other words, this subroutine acts as a filter by which you can exclude certain keys from being dumped. Default is 0, which means that hash keys are not sorted.

=item *

Can be set to a boolean value to control whether code references are turned into perl source code. If set to a true value, B::Deparse will be used to get the source of the code reference. Using this option will force using the Perl implementation of the dumper, since the fast XSUB implementation doesn't support it.

Caution: use this option only if you know that your coderefs will be properly reconstructed by B::Deparse.

=item *

By default, Data::Dumper builds up the "seen" hash of scalars that it has encountered during serialization. This is very expensive. This seen hash is necessary to support and even just detect circular
references. It is exposed to the user via the \C{Seen()} call both for writing and reading.

If you, as a user, do not need explicit access to the "seen" hash, then you can set the \C{Sparseseen} option to allow Data::Dumper to eschew building the "seen" hash for scalars that are known not to possess more than one reference. This speeds up serialization considerably if you use the XS implementation.

Note: If you turn on \C{Sparseseen}, then you must not rely on the content of the seen hash since its contents will be an implementation detail!

=back
=head2 Exports
=over 4
=item Dumper
=back
=head1 EXAMPLES

Run these code snippets to get a quick feel for the behavior of this module. When you are through with these examples, you may want to add or change the various configuration variables described above, to see their behavior. (See the testsuite in the Data::Dumper distribution for more examples.)

use Data::Dumper;

package Foo;
sub new {bless \{ 'a' => 1, 'b' => sub \{ return "foo" \}, $_[0]\};

package Fuz;                       # a weird REF-REF-SCALAR object
sub new {bless \$_ = \"fu\'z\", $_[0]\};

package main;
$foo = Foo->new;
$fuz = Fuz->new;
$boo = [ 1, [], "abcd", \*foo,
       \{1 => 'a', 023 => 'b', 0x45 => 'c'},
       \"p\q\'r", $foo, $fuz];

########
# simple usage

$bar = eval(Dumper($boo));
print($@) if $@;
print Dumper($boo), Dumper($bar); # pretty print (no array indices)

$Data::Dumper::Terse = 1; # don't output names where feasible
$Data::Dumper::Indent = 0; # turn off all pretty print
print Dumper($boo), "\n";

$Data::Dumper::Indent = 1; # mild pretty print
print Dumper($boo);

$Data::Dumper::Indent = 3; # pretty print with array indices
print Dumper($boo);

$Data::Dumper::Useqq = 1; # print strings in double quotes
print Dumper($boo);

$Data::Dumper::Pair = " : "; # specify hash key/value separator
print Dumper($boo);

# recursive structures

@c = ('c');
$sc = \@c;
$b = {};
$a = [1, $b, $sc];
$b->{a} = $a;
$b->{b} = $a->[1];
$b->{c} = $a->[2];
print Data::Dumper->Dump([$a,$b,$c], [qw(a b c)]);

$Data::Dumper::Purity = 1; # fill in the holes for eval
print Data::Dumper->Dump([$a, $b], [qw(*a b)]); # print as @a
print Data::Dumper->Dump([$b, $a], [qw(*b a)]); # print as %b

$Data::Dumper::Deepcopy = 1; # avoid cross-references
print Data::Dumper->Dump([$b, $a], [qw(*b a)]);

$Data::Dumper::Purity = 0; # avoid cross-references
print Data::Dumper->Dump([$b, $a], [qw(*b a)]);

########
# deep structures
########

$a = "pearl";
$b = [ $a ];
$c = { 'b' => $b };  
$d = [ $c ];
$e = { 'd' => $d };  
$f = { 'e' => $e };  
print Data::Dumper->Dump([$f], [qw(f)]);

$Data::Dumper::Maxdepth = 3;  
print Data::Dumper->Dump([$f], [qw(f)]);

########
# object-oriented usage
########

$d = Data::Dumper->new([$a,$b], [qw(a b)]);
$d->Seen({"c" => $c});  
$d->Indent(3);
print $d->Dump;
$d->Reset->Purity(0);  
print join "----\n", $d->Dump;

########
# persistence
########

package Foo;
sub new { bless { state => 'awake' }, shift }
sub Freeze {
    my $s = shift;
    print STDERR "preparing to sleep\n";
    $s->{state} = 'asleep';
    return bless $s, 'Foo::ZZZ';
}
package Foo::ZZZ;
sub Thaw {
    my $s = shift;
    print STDERR "waking up\n";
    $s->{state} = 'awake';
    return bless $s, 'Foo';
}

package main;
use Data::Dumper;
$a = Foo->new;
$b = Data::Dumper->new([$a], ['c']);
$b->Freezer('Freeze');
$b->Toaster('Thaw');
$c = $b->Dump;
print $c;
$d = eval $c;
print Data::Dumper->Dump([$d], ['d']);

########
# symbol substitution (useful for recreating CODE refs)
########

sub foo { print "foo speaking\n" }  
*other = \&foo;
$bar = [ \&other ];
$d = Data::Dumper->new([\&other,$bar],["other","bar"]);
$d->Seen({ 'foo' => \&foo });
print $d->Dump;

########
# sorting and filtering hash keys
########

$Data::Dumper::Sortkeys = \&my_filter;
my $foo = { map { ( ord, "$_$_$_" ) } 'I'..'Q' };
my $bar = { %$foo };
my $baz = { reverse %$foo };
print Dumper [ $foo, $bar, $baz ];

sub my_filter {
    my ($hash) = @_; 
    # return an array ref containing the hash keys to dump
    # in the order that you want them to be dumped
    return [
        # Sort the keys of %$foo in reverse numeric order
        $hash eq $foo ? (sort {$b <=> $a} keys %$hash) :
        # Only dump the odd number keys of %$bar
        $hash eq $bar ? (grep {$_ % 2} keys %$hash) :
        # Sort keys in default order for all other hashes
        (sort keys %$hash)
    ]
}
=head1 BUGS

Due to limitations of Perl subroutine call semantics, you cannot pass an array or hash. Prepend it with a C<<\> to pass its reference instead. This will be remedied in time, now that Perl has subroutine prototypes. For now, you need to use the extended usage form, and prepend the name with a C<<*> to output it as a hash or array.

C<Data::Dumper> cheats with CODE references. If a code reference is encountered in the structure being processed (and if you haven't set the C<Deparse> flag), an anonymous subroutine that contains the string "DUMMY" will be inserted in its place, and a warning will be printed if C<Purity> is set. You can C<eval> the result, but bear in mind that the anonymous sub that gets created is just a placeholder. Someday, perl will have a switch to cache-on-demand the string representation of a compiled piece of code, I hope. If you have prior knowledge of all the code refs that your data structures are likely to have, you can use the C<Seen> method to pre-seed the internal reference table and make the dumped output point to them, instead. See L</EXAMPLES> above.

The C<Deparse> flag makes Dump() run slower, since the XSUB implementation does not support it.

SCALAR objects have the weirdest looking C<bless> workaround.

Pure Perl version of C<Data::Dumper> escapes UTF-8 strings correctly only in Perl 5.8.0 and later.

=head2 NOTE

Starting from Perl 5.8.1 different runs of Perl will have different ordering of hash keys. The change was done for greater security, see L<perlsec/"Algorithmic Complexity Attacks">. This means that different runs of Perl will have different Data::Dumper outputs if the data contains hashes. If you need to have identical Data::Dumper outputs from different runs of Perl, use the environment variable PERL_HASH_SEED, see L<perlruntime/PERL_HASH_SEED>. Using this restores the old (platform-specific) ordering: an even prettier solution might be to use the C<Sortkeys> filter of Data::Dumper.

=head1 AUTHOR

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=head1 VERSION

Version 2.161 (July 11 2016)

=head1 SEE ALSO

perl(1)

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tomb - support for clean goroutine termination in Go.

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1.751 libxtst 1.2.3-7.el8

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1.752 dnf-plugins-core 4.0.17-5.el8

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1.754 wso2-carbon-event-output-adapter-mqtt

5.1.42

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1.767 nimbus-jose-jwt 6.5.1

1.768 asm 3.3.1

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3.3.100.v20130513-1956

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linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

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

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

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

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

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

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

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

d) If distribution of the work is made by offering access to copy
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.

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* /opt/ws_local/PERMITS_SQL/1068720138_1594456253.49/0/vertx-service-proxy-3-9-1-sources-jar/io/vertx/serviceproxy/generator/model/ProxyMethodInfo.java
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*/opt/ws_local/PERMITS_SQL/1068720138_1594456253.49/0/vertx-service-proxy-3-9-1-sources-jar/META-INF/vertx/vertx-service-proxy/class_header.txt

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  jar/io/vertx/serviceproxy/ProxyHandler.java
* /opt/ws_local/PERMITS_SQL/1068720138_1594456253.49/0/vertx-service-proxy-3-9-1-sources-
  jar/io/vertx/serviceproxy/ServiceBinder.java
* /opt/ws_local/PERMITS_SQL/1068720138_1594456253.49/0/vertx-service-proxy-3-9-1-sources-
  jar/io/vertx/serviceproxy/ServiceProxyBuilder.java
* /opt/ws_local/PERMITS_SQL/1068720138_1594456253.49/0/vertx-service-proxy-3-9-1-sources-
  jar/io/vertx/serviceproxy/ProxyHelper.java
* /opt/ws_local/PERMITS_SQL/1068720138_1594456253.49/0/vertx-service-proxy-3-9-1-sources-
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* /opt/ws_local/PERMITS_SQL/1068719446_1594426965.04/0/vertx-redis-client-3-9-1-sources-jar/io/vertx/redis/client/Request.java
* /opt/ws_local/PERMITS_SQL/1068719446_1594426965.04/0/vertx-redis-client-3-9-1-sources-jar/io/vertx/redis/client/RedisException.java
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* /opt/ws_local/PERMITS_SQL/1068719446_1594426965.04/0/vertx-redis-client-3-9-1-sources-jar/io/vertx/redis/client/impl/ZModem.java
* /opt/ws_local/PERMITS_SQL/1068719446_1594426965.04/0/vertx-redis-client-3-9-1-sources-jar/io/vertx/redis/client/RedisConnection.java
* /opt/ws_local/PERMITS_SQL/1068719446_1594426965.04/0/vertx-redis-client-3-9-1-sources-jar/io/vertx/redis/client/RedisClient.java
* /opt/ws_local/PERMITS_SQL/1068719446_1594426965.04/0/vertx-redis-client-3-9-1-sources-jar/io/vertx/redis/client/RedisClientType.java
* /opt/ws_local/PERMITS_SQL/1068719446_1594426965.04/0/vertx-redis-client-3-9-1-sources-jar/io/vertx/redis/client/RedisURI.java
* /opt/ws_local/PERMITS_SQL/1068719446_1594426965.04/0/vertx-redis-client-3-9-1-sources-
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* /opt/ws_local/PERMITS_SQL/1068719446_1594426965.04/0/vertx-redis-client-3-9-1-sources-
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* /opt/ws_local/PERMITS_SQL/1068719446_1594426965.04/0/vertx-redis-client-3-9-1-sources-
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* /opt/ws_local/PERMITS_SQL/1068719446_1594426965.04/0/vertx-redis-client-3-9-1-sources-
jar/io/vertx/redis/client/impl/types/MultiType.java
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jar/io/vertx/redis/client/Redis.java
* /opt/ws_local/PERMITS_SQL/1068719446_1594426965.04/0/vertx-redis-client-3-9-1-sources-
jar/io/vertx/redis/client/impl/types/IntegerType.java
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jar/io/vertx/redis/client/RedisOptions.java
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jar/io/vertx/redis/client/RedisClusterClient.java
* /opt/ws_local/PERMITS_SQL/1068719446_1594426965.04/0/vertx-redis-client-3-9-1-sources-
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  jar/io/vertx/redis/op/RangeLimitOptions.java
* /opt/ws_local/PERMITS_SQL/1068719446_1594426965.04/0/vertx-redis-client-3-9-1-sources-
  jar/io/vertx/redis/op/LimitOptions.java
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* /opt/ws_local/PERMITS_SQL/1068719446_1594426965.04/0/vertx-redis-client-3-9-1-sources-jar/io/vertx/redis/op/GeoRadiusOptions.java
* /opt/ws_local/PERMITS_SQL/1068719446_1594426965.04/0/vertx-redis-client-3-9-1-sources-jar/io/vertx/redis/op/GeoUnit.java

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* /opt/ws_local/PERMITS_SQL/1068719446_1594426965.04/0/vertx-redis-client-3-9-1-sources-jar/io/vertx/redis/client/Command.java

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1.808 wso2-carbon-roles-mgt-stub 4.4.35

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1.809 wso2-carbon-apimgt-broker-lifecycle

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1.815 wso2-carbon-andes-event-admin 3.2.44

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1.816 python-pip 9.0.1-6.ph2

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1.817 swagger-annotations 2.0.9

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1.818 protobuf-java 2.6.1

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1.819 sed 4.5-2.el8

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1.828 wso2-carbon-registry-api 4.4.35

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4.4.35

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1.838 perl-constant 1.33-396.el8

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NAME

constant - Perl pragma to declare constants

DESCRIPTION

This pragma allows you to declare constants at compile-time.

When a constant is used in an expression, Perl replaces it with its
value at compile time, and may then optimize the expression further.
In particular, any code in an "if (CONSTANT)" block will be optimized
away if the constant is false.

INSTALLATION

To install this module, run the following commands:

    perl Makefile.PL
make
test
install
Alternatively, to install with Module::Build, you can use the following commands:
perl Build.PL
./Build
./Build test
./Build install

SUPPORT AND DOCUMENTATION

After installing, you can find documentation for this module with the perldoc command.

perldoc constant

You can also look for information at:

Search CPAN
http://search.cpan.org/dist/constant

CPAN Request Tracker:
http://rt.cpan.org/Dist/Display.html?Name=constant

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548089_1591379339.64/0/perl-constant-1.33-396.el8.src.rpm-cosi-expand-archive-m15loNwe/constant-1.27.tar.gz-cosi-expand-archive-jvagHUVh/constant-1.27/README
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=head1 NAME
constant - Perl pragma to declare constants

=head1 SYNOPSIS

use constant PI => 4 * atan2(1, 1);
use constant DEBUG => 0;

print "Pi equals ", PI, "...
" if DEBUG;

use constant {
    SEC => 0,
    MIN => 1,
    HOUR => 2,
    MDAY => 3,
    MON => 4,
    YEAR => 5,
    WDAY => 6,
    YDAY => 7,
    ISDST => 8,
};

use constant WEEKDAYS => qw(
    Sunday Monday Tuesday Wednesday Thursday Friday Saturday
);

print "Today is ", (WEEKDAYS)[ (localtime)[WDAY] ], ",\n";

=head1 DESCRIPTION

This pragma allows you to declare constants at compile-time.

When you declare a constant such as C<PI> using the method shown above, each machine your script runs upon can have as many digits of accuracy as it can use. Also, your program will be easier to read, more likely to be maintained (and maintained correctly), and far less likely to send a space probe to the wrong planet because nobody noticed the one equation in which you wrote C<3.14195>.

When a constant is used in an expression, Perl replaces it with its value at compile time, and may then optimize the expression further. In particular, any code in an C<if (CONSTANT)> block will be optimized away if the constant is false.

=head1 NOTES

As with all C<use> directives, defining a constant happens at compile time. Thus, it's probably not correct to put a constant
declaration inside of a conditional statement (like C<if ($foo)
{ use constant ... }>>).

Constants defined using this module cannot be interpolated into
strings like variables. However, concatenation works just fine:

    print "Pi equals PI...\n";  # WRONG: does not expand "PI"
    print "Pi equals ".PI."...\n";  # right

Even though a reference may be declared as a constant, the reference may
point to data which may be changed, as this code shows.

    use constant ARRAY => [ 1,2,3,4 ];
    print ARRAY->[1];
    ARRAY->[1] = " be changed";
    print ARRAY->[1];

Dereferencing constant references incorrectly (such as using an array
subscript on a constant hash reference, or vice versa) will be trapped at
compile time.

Constants belong to the package they are defined in. To refer to a
constant defined in another package, specify the full package name, as
in C<Some::Package::CONSTANT>. Constants may be exported by modules,
and may also be called as either class or instance methods, that is,
as C<< Some::Package->CONSTANT >> or as C<< $obj->CONSTANT >> where
C<$obj> is an instance of C<Some::Package>. Subclasses may define
their own constants to override those in their base class.

The use of all caps for constant names is merely a convention,
although it is recommended in order to make constants stand out
and to help avoid collisions with other barewords, keywords, and
subroutine names. Constant names must begin with a letter or
underscore. Names beginning with a double underscore are reserved. Some
poor choices for names will generate warnings, if warnings are enabled at
compile time.

=head2 List constants

Constants may be lists of more (or less) than one value. A constant
with no values evaluates to C<undef> in scalar context. Note that
constants with more than one value do I<not> return their last value in
scalar context as one might expect. They currently return the number
of values, but B<this may change in the future>. Do not use constants
with multiple values in scalar context.

B<NOTE:> This implies that the expression defining the value of a
constant is evaluated in list context. This may produce surprises:
use constant TIMESTAMP => localtime;       # WRONG!
use constant TIMESTAMP => scalar localtime; # right

The first line above defines C<TIMESTAMP> as a 9-element list, as returned by C<localtime()> in list context. To set it to the string returned by C<localtime()> in scalar context, an explicit C<scalar> keyword is required.

List constants are lists, not arrays. To index or slice them, they must be placed in parentheses.

my @workdays = WEEKDAYS[1 .. 5];          # WRONG!
my @workdays = (WEEKDAYS)[1 .. 5];       # right

=head2 Defining multiple constants at once

Instead of writing multiple C<use constant> statements, you may define multiple constants in a single statement by giving, instead of the constant name, a reference to a hash where the keys are the names of the constants to be defined. Obviously, all constants defined using this method must have a single value.

use constant {
    FOO => "A single value",
    BAR => "This", "won't", "work!",       # Error!
};

This is a fundamental limitation of the way hashes are constructed in Perl. The error messages produced when this happens will often be quite cryptic -- in the worst case there may be none at all, and you'll only later find that something is broken.

When defining multiple constants, you cannot use the values of other constants defined in the same declaration. This is because the calling package doesn't know about any constant within that group until I<after> the C<use> statement is finished.

use constant {
    BITMASK => 0xAFBAEBA8,
    NEGMASK => ~BITMASK,                  # Error!
};

=head2 Magic constants

Magical values and references can be made into constants at compile time, allowing for way cool stuff like this. (These error numbers aren't totally portable, alas.)
use constant E2BIG => ($! = 7);
print E2BIG, "\n";  # something like "Arg list too long"
print 0+E2BIG, "\n";  # "7"

You can't produce a tied constant by giving a tied scalar as the value. References to tied variables, however, can be used as constants without any problems.

=head1 TECHNICAL NOTES

In the current implementation, scalar constants are actually inlinable subroutines. As of version 5.004 of Perl, the appropriate scalar constant is inserted directly in place of some subroutine calls, thereby saving the overhead of a subroutine call. See L<perlsub/"Constant Functions"> for details about how and when this happens.

In the rare case in which you need to discover at run time whether a particular constant has been declared via this module, you may use this function to examine the hash C<%constant::declared>. If the given constant name does not include a package name, the current package is used.

    sub declared ($) {
      use constant 1.01;  # don't omit this!
      my $name = shift;
      $name =~ s/^::/main::/;
      my $pkg = caller;
      my $full_name = $name =~ /::/ ? $name : "${pkg}::$name";
      $constant::declared{$full_name};
    }

=head1 CAVEATS

In the current version of Perl, list constants are not inlined and some symbols may be redefined without generating a warning.

It is not possible to have a subroutine or a keyword with the same name as a constant in the same package. This is probably a Good Thing.

A constant with a name in the list C<STDIN STDOUT STDERR ARGV ARGVOUT ENV INC SIG> is not allowed anywhere but in package C<main::>, for technical reasons.

Unlike constants in some languages, these cannot be overridden on the command line or via environment variables.
You can get into trouble if you use constants in a context which automatically quotes barewords (as is true for any subroutine call). For example, you can't say C<$hash{CONSTANT}> because C<CONSTANT> will be interpreted as a string. Use C<$hash{CONSTANT()}> or C<$hash{+CONSTANT}> to prevent the bareword quoting mechanism from kicking in. Similarly, since the C<< => >> operator quotes a bareword immediately to its left, you have to say C<< CONSTANT() => 'value' >> (or simply use a comma in place of the big arrow) instead of C<< CONSTANT => 'value' >>.

=head1 SEE ALSO

L<Readonly> - Facility for creating read-only scalars, arrays, hashes.

L<Attribute::Constant> - Make read-only variables via attribute

L<Scalar::Readonly> - Perl extension to the C<SvREADONLY> scalar flag

L<Hash::Util> - A selection of general-utility hash subroutines (mostly to lock/unlock keys and values)

=head1 BUGS

Please report any bugs or feature requests via the perlbug(1) utility.

=head1 AUTHORS

Tom Phoenix, E<lt>rootbeer@redcat.com<E<gt>, with help from many other folks.

Multiple constant declarations at once added by Casey West, E<lt>casey@geeknest.com<E<gt>.

Documentation mostly rewritten by Ilmari Karonen, E<lt>perl@itz.pp.sci.fi<E<gt>.

This program is maintained by the Perl 5 Porters. The CPAN distribution is maintained by SEbastien Aperghis-Tramoni E<lt>sebastien@aperghis.net<E<gt>.

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author:
  - 'Sébastien Aperghis-Tramoni <sebastien@aperghis.net>'
build_requires:
  Test::More: 0
configure_requires:
  Module::Build: 0.2808
dynamic_config: 1
generated_by: 'Module::Build version 0.4003, CPAN::Meta::Converter version 2.120921'
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  url: http://module-build.sourceforge.net/META-spec-v1.4.html
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MySQL Connector/C++ 8.0

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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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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.

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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries.
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once per string per serialization call.
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1.842 libverto 0.3.0 5.el8

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1.851 pango 1.42.4-6.el8

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# Jackson JSON processor

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It is currently developed by a community of developers, as well as supported
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Open Source Used In Connected-Pharma 1.5-UI & ServiceLayer 8614
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=head1 NAME

Pod::Simple::PullParserTextToken -- text-tokens from Pod::Simple::PullParser

=head1 SYNOPSIS

(See L<Pod::Simple::PullParser>)

=head1 DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser>, you might get an object of this class.

This is a subclass of L<Pod::Simple::PullParserToken> and inherits all its methods, and adds these methods:

=over

=item $token->text

This returns the text that this token holds. For example, parsing CZ<<foo> will return a C start-token, a text-token, and a C end-token. And if you want to get the "foo" out of the text-token, call C<< $token->text >>

=item $token->text(I<somestring>)

This changes the string that this token holds. You probably won't need to do this.

=item $token->text_r()

This returns a scalar reference to the string that this token holds. This can be useful if you don't want to memory-copy the potentially large text value (well, as large as a paragraph or a verbatim block) as calling $token->text would do.

Or, if you want to alter the value, you can even do things like this:

for ( $token->text_r ) { #Aliases it with $_ !

    s/ The / the /g; # just for example

    if( 'A' eq chr(65) ) { # (if in an ASCII world)
        tr/\xA0/ /;
        tr/\xAD//d;
}
...or however you want to alter the value...
(Note that starting with Perl v5.8, you can use, e.g.,

```perl
my $nbsp = chr utf8::unicode_to_native(0xA0);
s/$nbsp/ /g;
```
to handle the above regardless if it's an ASCII world or not)

You're unlikely to ever need to construct an object of this class for
yourself, but if you want to, call

```perl
Pod::Simple::PullParserTextToken->new( I<text> )
```

=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the
pod-people@perl.org mail list. Send an empty email to
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merchantability or fitness for a particular purpose.
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Pod::Simple is maintained by:

=over

=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<dwheeler@cpan.org>

=back

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/PullParserTextToken.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME
Pod::Simple::XMLOutStream -- turn Pod into XML

=head1 SYNOPSIS
perl -MPod::Simple::XMLOutStream -e \\
"exit Pod::Simple::XMLOutStream->filter(shift)->any_errata_seen" \\
thingy.pod

=head1 DESCRIPTION
Pod::Simple::XMLOutStream is a subclass of L<Pod::Simple> that parses Pod and turns it into XML.

Pod::Simple::XMLOutStream inherits methods from L<Pod::Simple>.

=head1 SEE ALSO
L<Pod::Simple::DumpAsXML> is rather like this class; see its documentation for a discussion of the differences.
L<Pod::Simple>, L<Pod::Simple::DumpAsXML>, L<Pod::SAX>

L<Pod::Simple::Subclassing>

The older (and possibly obsolete) libraries L<Pod::PXML>, L<Pod::XML>

=head1 ABOUT EXTENDING POD

TODO: An example or two of =extend, then point to Pod::Simple::Subclassing

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Text>, L<Pod::Spell>

=head1 SUPPORT

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=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over
NAME
Pod::Simple::DumpAsText -- dump Pod-parsing events as text

SYNOPSIS
perl -MPod::Simple::DumpAsText -e "exit Pod::Simple::DumpAsText->filter(shift)->any_errata_seen" thingy.pod

DESCRIPTION
This class is for dumping, as text, the events gotten from parsing a Pod document. This class is of interest to people writing Pod formatters based on Pod::Simple. It is useful for seeing exactly what events you get out of some Pod that you feed in.

This is a subclass of L<Pod::Simple> and inherits all its methods.

SEE ALSO
L<Pod::Simple::DumpAsXML>
L<Pod::Simple>
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Hans Dieter Pearcey <hdp@cpan.org>
David E. Wheeler <dwheeler@cpan.org>
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::HTML - convert Pod to HTML

=head1 SYNOPSIS

perl -MPod::Simple::HTML -e Pod::Simple::HTML::go thingy.pod

=head1 DESCRIPTION

This class is for making an HTML rendering of a Pod document.

This is a subclass of L<Pod::Simple::PullParser> and inherits all its methods (and options).

Note that if you want to do a batch conversion of a lot of Pod documents to HTML, you should see the module L<Pod::Simple::HTMLBatch>.

=head1 CALLING FROM THE COMMAND LINE

TODO

perl -MPod::Simple::HTML -e Pod::Simple::HTML::go Thing.pod Thing.html

=head1 CALLING FROM PERL

=head2 Minimal code

use Pod::Simple::HTML;
my $p = Pod::Simple::HTML->new;
$p->output_string("$html");
$p->parse_file("path/to/Module/Name.pm");
open my $out, '>', 'out.html' or die "Cannot open 'out.html': $!
";
print $out $html;

=head2 More detailed example

use Pod::Simple::HTML;

Set the content type:
$Pod::Simple::HTML::Content_decl = q{<meta http-equiv="Content-Type" content="text/html; charset=UTF-8"
>};
my $p = Pod::Simple::HTML->new;
Include a single javascript source:
$p->html_javascript('http://abc.com/a.js');
Or insert multiple javascript source in the header
(or for that matter include anything, thought this is not recommended)
$p->html_javascript('
<script type="text/javascript" src="http://abc.com/b.js"></script>
<script type="text/javascript" src="http://abc.com/c.js"></script>');
Include a single css source in the header:
$p->html_css('/style.css');
or insert multiple css sources:
$p->html_css('
<link rel="stylesheet" type="text/css" title="pod_stylesheet" href="http://remote.server.com/jquery.css">
<link rel="stylesheet" type="text/css" title="pod_stylesheet" href="/style.css">');
Tell the parser where should the output go. In this case it will be placed in the $html variable:
my $html;
$p->output_string(\$html);
Parse and process a file with pod in it:
$p->parse_file('path/to/Module/Name.pm');
=head1 METHODS
TODO
all (most?) accessorized methods
The following variables need to be set B<before> the call to the ->new constructor.
Set the string that is included before the opening <html> tag:
$Pod::Simple::HTML::Doctype_decl = qq{<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01
Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">\n};

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Set the content-type in the HTML head: (defaults to ISO-8859-1)

$Pod::Simple::HTML::Content_decl = q{<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" >};

Set the value that will be embedded in the opening tags of F, C tags and verbatim text. F maps to <em>, C maps to <code>, Verbatim text maps to <pre> (Computerese defaults to ""

$Pod::Simple::HTML::Computerese = 'class="some_class_name';

=head2 html_css

=head2 html_javascript

=head2 title_prefix

=head2 title_postfix

=head2 html_header_before_title

This includes everything before the <title> opening tag including the Document type and including the opening <title> tag. The following call will set it to be a simple HTML file:

$p->html_header_before_title('<html><head><title>');

=head2 top_anchor

By default Pod::Simple::HTML adds a dummy anchor at the top of the HTML. You can change it by calling

$p->top_anchor('<a name="zz">');

=head2 html_h_level

Normally =head1 will become <h1>, =head2 will become <h2> etc. Using the html_h_level method will change these levels setting the h level of =head1 tags:

$p->html_h_level(3);

Will make sure that =head1 will become <h3> and =head2 will become <h4> etc...

=head2 index

Set it to some true value if you want to have an index (in reality a table of contents) to be added at the top of the generated HTML.
$p->index(1);

=head2 html_header_after_title

Includes the closing tag of &lt;/title&gt; and through the rest of the head
till the opening of the body

$p->html_header_after_title('&lt;/title&gt;&lt;/head&gt;&lt;body id="my_id"&gt;');

=head2 html_footer

The very end of the document:

$p->html_footer( qq|\n<!-- end doc -->
\n</body></html>\n| );

=head1 SUBCLASING

Can use any of the methods described above but for further customization
one needs to override some of the methods:

package My::Pod;
use strict;
use warnings;
use base 'Pod::Simple::HTML';

# needs to return a URL string such
# http://some.other.com/page.html
# #anchor_in_the_same_file
# /internal/ref.html
sub do_pod_link {
    # My::Pod object and Pod::Simple::PullParserStartToken object
    my ($self, $link) = @_; 

    say $link->tagname;          # will be L for links
    say $link->attr('to');       #
    say $link->attr('type');     # will be 'pod' always
    say $link->attr('section');

    # Links local to our web site
    if ($link->tagname eq 'L' and $link->attr('type') eq 'pod') {
        my $to = $link->attr('to');
        if ($to =~ /^Padre::/) {
            $to =~ s{::}{/}g;
            return "/docs/Padre/$to.html";
        }
    }
}
# all other links are generated by the parent class
my $ret = $self->SUPER::do_pod_link($link);
return $ret;

1;

Meanwhile in script.pl:

use My::Pod;

my $p = My::Pod->new;

my $html;
$p->output_string($html);
$p->parse_file('path/to/Module/Name.pm');
open my $out, '>', 'out.html' or die;
print $out $html;

TODO

maybe override do_beginning do_end

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::HTMLBatch>

TODO: a corpus of sample Pod input and HTML output? Or common idioms?

=head1 SUPPORT

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=head1 AUTHOR

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Pod::Simple is maintained by:

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=back

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

=head1 Pod::Simple version 3.33

Pod::Simple is a Perl library for parsing text in the Pod ("plain old documentation") markup language that is typically used for writing documentation for Perl and for Perl modules. The Pod format is explained L<perlpod>; the most common formatter is called C<perldoc>.

Pod formatters can use Pod::Simple to parse Pod documents and render them into
=head2 Installation

To install this module, type the following:

perl Makefile.PL
make
make test
make install

=head2 Support

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=over

=item * Allison Randal <allison@perl.org>

=item * Hans Dieter Pearcey <hdp@cpan.org>

=over
NAME
Pod::Simple::Text -- format Pod as plaintext

SYNOPSIS
perl -MPod::Simple::Text -e "exit Pod::Simple::Text->filter(shift)->any_errata_seen" thingy.pod

DESCRIPTION
This class is a formatter that takes Pod and renders it as wrapped plaintext.

Its wrapping is done by L<Text::Wrap>, so you can change C<$Text::Wrap::columns> as you like.

This is a subclass of L<Pod::Simple> and inherits all its methods.

SEE ALSO
L<Pod::Simple>, L<Pod::Simple::TextContent>, L<Pod::Text>

SUPPORT
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=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Text>, L<Pod::Spell>

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=head1 AUTHOR

Pod::Simple::XHTML was created by Allison Randal <allison@perl.org>.

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

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=item * David E. Wheeler <d wheeler@cpan.org>

=back

=cut

Found in path(s):
Pod::Simple::HTMLBatch - convert several Pod files to several HTML files

=head1 NAME

Pod::Simple::HTMLBatch - convert several Pod files to several HTML files

=head1 SYNOPSIS

perl -MPod::Simple::HTMLBatch -e 'Pod::Simple::HTMLBatch::go' in out

=head1 DESCRIPTION

This module is used for running batch-conversions of a lot of HTML documents

This class is NOT a subclass of Pod::Simple::HTML (nor of bad old Pod::Html) -- although it uses Pod::Simple::HTML for doing the conversion of each document.

The normal use of this class is like so:

use Pod::Simple::HTMLBatch;
my $batchconv = Pod::Simple::HTMLBatch->new;
$batchconv->some_option( some_value );
$batchconv->some_other_option( some_other_value );
$batchconv->batch_convert(\@search_dirs, $output_dir);

=head2 FROM THE COMMAND LINE

Note that this class also provides (but does not export) the function Pod::Simple::HTMLBatch::go.
This is basically just a shortcut for C<< Pod::Simple::HTMLBatch->batch_convert(@ARGV) >>.
It's meant to be handy for calling from the command line.

However, the shortcut requires that you specify exactly two command-line arguments, C<indirs> and C<outdir>.

Example:

% mkdir out_html
% perl -MPod::Simple::HTMLBatch -e Pod::Simple::HTMLBatch::go @INC out_html
(to convert the pod from Perl's @INC files under the directory ./out_html)
(Note that the command line there contains a literal atsign-I-N-C. This is handled as a special case by batch_convert, in order to save you having to enter the odd-looking "" as the first command-line parameter when you mean "just use whatever's in @INC".)

Example:

% mkdir ../seekrut
% chmod og-rx ../seekrut
% perl -MPod::Simple::HTMLBatch -e Pod::Simple::HTMLBatch::go . ../seekrut
   (to convert the pod under the current dir into HTML
    files under the directory ./seekrut)

Example:

% perl -MPod::Simple::HTMLBatch -e Pod::Simple::HTMLBatch::go happydocs .
   (to convert all pod from happydocs into the current directory)

=head1 MAIN METHODS

=over

=item $batchconv = Pod::Simple::HTMLBatch->new;

This TODO

=item $batchconv->batch_convert( I<indirs>, I<outdir> );

this TODO

=item $batchconv->batch_convert( undef , ...);

=item $batchconv->batch_convert( q[@INC], ...);

These two values for I<indirs> specify that the normal Perl @INC

=item $batchconv->batch_convert( \@dirs , ...);

This specifies that the input directories are the items in the arrayref C<\@dirs>.

=item $batchconv->batch_convert( "somedir" , ...);

This specifies that the director "somedir" is the input.
A common value you might want would be just "." for the current directory:

```
$batchconv->batch_convert( "." , ...);
```

This specifies that you want the dirs "somedir", "someother", and "also" scanned, just as if you'd passed the arrayref `C<qw( somedir someother also)>`. Note that a ":"-separator is normal under Unix, but Under MSWin, you'll need `C<somedir;someother;also>` instead, since the pathsep on MSWin is ";" instead of ":". (And I<that> is because ";" often comes up in paths, like `C<"c:/perl/lib">`.)

Exactly what separator character should be used, is gotten from `C<$Config::Config{path_sep}>`, via the `L<Config>` module.

```
$item $batchconv->batch_convert( ... , undef );
```

This specifies that you want the HTML output to go into the current directory.

(Note that a missing or undefined value means a different thing in the first slot than in the second. That's so that `C<batch_convert()>` with no arguments (or undef arguments) means "go from @INC, into the current directory."

```
=item $batchconv->batch_convert( ... , 'somedir' );
```

This specifies that you want the HTML output to go into the directory 'somedir'.
(This can be an absolute or relative path, it doesn't matter.)

=back

Note that you can also call `C<batch_convert>` as a class method, like so:

```
Pod::Simple::HTMLBatch->batch_convert( ... );
```

That is just short for this:

```
Pod::Simple::HTMLBatch-> new-> batch_convert(...);
```
That is, it runs a conversion with default options, for whatever inputdirs and output dir you specify.

=head2 ACCESSOR METHODS

The following are all accessor methods -- that is, they don't do anything on their own, but just alter the contents of the conversion object, which comprises the options for this particular batch conversion.

We show the "put" form of the accessors below (i.e., the syntax you use for setting the accessor to a specific value). But you can also call each method with no parameters to get its current value. For example, C<< $self->contents_file() >> returns the current value of the contents_file attribute.

=over

=item $batchconv->verbose( I<nonnegative_integer> );

This controls how verbose to be during batch conversion, as far as notes to STDOUT (or whatever is C<select>'d) about how the conversion is going. If 0, no progress information is printed. If 1 (the default value), some progress information is printed. Higher values print more information.

=item $batchconv->index( I<true-or-false> );

This controls whether or not each HTML page is liable to have a little table of contents at the top (which we call an "index" for historical reasons). This is true by default.

=item $batchconv->contents_file( I<filename> );

If set, should be the name of a file (in the output directory) to write the HTML index to. The default value is "index.html". If you set this to a false value, no contents file will be written.

=item $batchconv->contents_page_start( I<HTML_string> );

This specifies what string should be put at the beginning of the contents page. The default is a string more or less like this:
This specifies what string should be put at the end of the contents page. The default is a string more or less like this:

```html
<p class='contentsfooty'>Generated by Pod::Simple::HTMLBatch v3.01 under Perl v5.008
At Fri May 14 22:26:42 2004 GMT, which is Fri May 14 14:26:42 2004 local time.</p>
```

If true (the default value), we autogenerate some CSS files in the output directory, and set our HTML files to use those.

TODO: continue

If true (the default value), we autogenerate a JavaScript in the output directory, and set our HTML files to use it. Currently, the JavaScript is used only to get the browser to remember what stylesheet it prefers.

TODO: continue

This sets what class is used for rendering the files. The default is "Pod::Simple::HTML". If you set it to something else, it should probably be a subclass of Pod::Simple::HTML, and you should
C<require> or C<use> that class so that's it's loaded before Pod::Simple::HTMLBatch tries loading it.

=item $batchconv->search_class( I<classname> );

This sets what class is used for searching for the files.
The default is "Pod::Simple::Search". If you set it to something else, it should probably be a subclass of Pod::Simple::Search, and you should C<require> or C<use> that class so that's it's loaded before Pod::Simple::HTMLBatch tries loading it.

=back

=head1 NOTES ON CUSTOMIZATION

TODO

call add_css($someurl) to add stylesheet as alternate
call add_css($someurl,1) to add as primary stylesheet

call add_javascript

subclass Pod::Simple::HTML and set $batchconv->html_render_class to that classname
and maybe override
 $page->batch_mode_page_object_init($self, $module, $infile, $outfile, $depth)
or maybe override
 $batchconv->batch_mode_page_object_init($page, $module, $infile, $outfile, $depth)
subclass Pod::Simple::Search and set $batchconv->search_class to that classname

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::HTMLBatch>, L<perlpod>, L<perlpodspec>

=head1 SUPPORT

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=head1 AUTHOR

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Pod::Simple is maintained by:

=over
=item * Allison Randal C<allison@perl.org>
=item * Hans Dieter Pearcey C<hdp@cpan.org>
=item * David E. Wheeler C<dwheeler@cpan.org>
=back

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/HTMLBatch.pm

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=head1 NAME

Pod::Simple::PullParserEndToken -- end-tokens from Pod::Simple::PullParser

=head1 SYNOPSIS

(See L<Pod::Simple::PullParser>)
DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser>, you might get an object of this class.

This is a subclass of L<Pod::Simple::PullParserToken> and inherits all its methods, and adds these methods:

=over

=item $token->tagname

This returns the tagname for this end-token object.
For example, parsing a "=head1 ..." line will give you a start-token with the tagname of "head1", token(s) for its content, and then an end-token with the tagname of "head1".

=item $token->tagname(I<somestring>)

This changes the tagname for this end-token object.
You probably won't need to do this.

=item $token->tag(...) =item $token->is_tag(I<somestring>) or $token->is_tagname(I<somestring>)

A shortcut for $token->tagname(...) These are shortcuts for C<< $token->tag() eq I<somestring> >>

=back

You're unlikely to ever need to construct an object of this class for yourself, but if you want to, call C<< Pod::Simple::PullParserEndToken->new( I<tagname> ) >>

SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

SUPPORT

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=head1 NAME

Pod::Simple::PullParserStartToken -- start-tokens from Pod::Simple::PullParser

=head1 SYNOPSIS
When you do $parser->get_token on a L<Pod::Simple::PullParser> object, you might get an object of this class.

This is a subclass of L<Pod::Simple::PullParserToken> and inherits all its methods, and adds these methods:

=head1 DESCRIPTION

This returns the tagname for this start-token object.
You probably won't need to do this.

=item $token->tagname

This returns the tagname for this start-token object.
For example, parsing a "=head1 ..." line will give you a start-token with the tagname of "head1", token(s) for its content, and then an end-token with the tagname of "head1".

=item $token->tagname(I<somestring>)

This changes the tagname for this start-token object.
You probably won't need to do this.

=item $token->tag(...)

A shortcut for $token->tagname(...)

=item $token->is_tag(I<somestring>) or $token->is_tagname(I<somestring>)

These are shortcuts for C<< $token->tag() eq I<somestring> >>

=item $token->attr(I<attrname>)

This returns the value of the I<attrname> attribute for this start-token object, or undef.

For example, parsing a L<><Foo/"Bar"> link will produce a start-token with a "to" attribute with the value "Foo", a "type" attribute with the value "pod", and a "section" attribute with the value "Bar".

=item $token->attr(I<attrname>, I<newvalue>)

This sets the I<attrname> attribute for this start-token object to I<newvalue>. You probably won't need to do this.
This returns the hashref that is the attribute set for this start-token. This is useful if (for example) you want to ask what all the attributes are -- you can just do C<< keys %{$token->attr_hash} >>

You're unlikely to ever need to construct an object of this class for yourself, but if you want to, call

C<<
Pod::Simple::PullParserStartToken->new( I<tagname>, I<attrhash> )
>>

=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

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No license file was found, but licenses were detected in source scan.
research purposes), Cygwin is covered by the GNU Public License (but
statements like ``This is unpublished proprietary software of XYZ Corp.
Your access to it does not give you permission to use it blah blah
All rights reserved.
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expandarchive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/t/perlfaq.pod
No license file was found, but licenses were detected in source scan.
sub dump { '[' . _esc( @{ $_[0] } ) . ']' }
# JUNK:
sub _esc {
return '' unless @_;
my @out;
foreach my $in (@_) {
push @out, '"' . $in . '"';
$out[-1] =~ s/([^- \:\:\.\,\'\>\<\"\/\=\?\+\|\[\]\{\}\_a-zA-Z0-9_\`\~\!\#\%\^\&\*\(\)])/
sprintf( (ord($1) < 256) ? "\\x%02X" : "\\x{%X}", ord($1))
/eg;
}
return join ', ', @out;

Open Source Used In Connected-Pharma 1.5-UI & ServiceLayer 9003


NAME

Pod::Simple::PullParserToken -- tokens from Pod::Simple::PullParser

SYNOPSIS

Given a $parser that's an object of class Pod::Simple::PullParser
(or a subclass)...

while(my $token = $parser->get_token) {
  $DEBUG and print STDERR "Token: ", $token->dump, "$n;  
  if($token->is_start) {
    ...access $token->tagname, $token->attr, etc...
  } elsif($token->is_text) {
    ...access $token->text, $token->text_r, etc...
  } elsif($token->is_end) {
    ...access $token->tagname...
  }
}

(Also see L<Pod::Simple::PullParser>)

DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser>, you should
get an object of a subclass of Pod::Simple::PullParserToken.

Subclasses will add methods, and will also inherit these methods:

DESCRIPTION

This returns the type of the token. This will be either the string
"start", the string "text", or the string "end".

Once you know what the type of an object is, you then know what
subclass it belongs to, and therefore what methods it supports.

Yes, you could probably do the same thing with code like
$token->isa('Pod::Simple::PullParserEndToken'), but that's not so pretty as using just $token->type, or even the following shortcuts:

=item $token->is_start

This is a shortcut for C<< $token->type() eq "start" >>

=item $token->is_text

This is a shortcut for C<< $token->type() eq "text" >>

=item $token->is_end

This is a shortcut for C<< $token->type() eq "end" >>

=item $token->dump

This returns a handy stringified value of this object. This is useful for debugging, as in:

while(my $token = $parser->get_token) {
    $DEBUG and print STDERR "Token: ", $token->dump, "\n";
    ...
}

=back

=head1 SEE ALSO

My subclasses:
L<Pod::Simple::PullParserStartToken>,
L<Pod::Simple::PullParserTextToken>, and
L<Pod::Simple::PullParserEndToken>.

L<Pod::Simple::PullParser> and L<Pod::Simple>

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=head1 NAME

Pod::Simple::RTF -- format Pod as RTF

=head1 SYNOPSIS

perl -MPod::Simple::RTF -e \
"exit Pod::Simple::RTF->filter(shift)->any_errata_seen" \nthingy.pod > thingy.rtf

=head1 DESCRIPTION
This class is a formatter that takes Pod and renders it as RTF, good for viewing/printing in MSWord, WordPad/write.exe, TextEdit, etc.

This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 FORMAT CONTROL ATTRIBUTES

You can set these attributes on the parser object before you call C<parse_file> (or a similar method) on it:

=over
=item $parser->head1_halfpoint_size( I<halfpoint_integer> );
=item $parser->head2_halfpoint_size( I<halfpoint_integer> );
=item $parser->head3_halfpoint_size( I<halfpoint_integer> );
=item $parser->head4_halfpoint_size( I<halfpoint_integer> );
=item $parser->codeblock_halfpoint_size( I<halfpoint_integer> );
=item $parser->header_halfpoint_size( I<halfpoint_integer> );
=item $parser->normal_halfpoint_size( I<halfpoint_integer> );
=item $parser->no_proofing_exemptions( I<true_or_false> );
=item $parser->doc_lang( I<microsoft_decimal_language_code> )

These methods set the size (in half-points, like 52 for 26-point) that these heading levels will appear as.

This method sets the size (in half-points, like 21 for 10.5-point) that codeblocks ("verbatim sections") will appear as.

This method sets the size (in half-points, like 15 for 7.5-point) that the header on each page will appear in. The header is usually just "I<modulename> p. I<pagenumber>".

This method sets the size (in half-points, like 26 for 13-point) that normal paragraphic text will appear in.

Set this value to true if you don't want the formatter to try putting a hidden code on all Perl symbols (as best as it can notice them) that labels them as being not in English, and so not worth spellchecking.
This sets the language code to tag this document as being in. By default, it is currently the value of the environment variable C<RTFDEFLANG>, or if that's not set, then the value 1033 (for US English).

Setting this appropriately is useful if you want to use the RTF to spellcheck, and/or if you want it to hyphenate right.

Here are some notable values:

- 1033  US English
- 2057  UK English
- 3081  Australia English
- 4105  Canada English
- 1034  Spain Spanish
- 2058  Mexico Spanish
- 1031  Germany German
- 1036  France French
- 3084  Canada French
- 1035  Finnish
- 1044  Norwegian (Bokmal)
- 2068  Norwegian (Nynorsk)

If you are particularly interested in customizing this module's output even more, see the source and/or write to me.

=head1 SEE ALSO

L<Pod::Simple>, L<RTF::Writer>, L<RTF::Cookbook>, L<RTF::Document>, L<RTF::Generator>

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License: GPL+ or Artistic

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* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/perl-Pod-Simple.spec
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=head1 NAME

Pod::Simple::Methody -- turn Pod::Simple events into method calls

=head1 SYNOPSIS
require 5;
use strict;
package SomePodFormatter;
use base qw(Pod::Simple::Methody);

sub handle_text {
    my($self, $text) = @_;  
    ...
}

sub start_head1 {
    my($self, $attrs) = @_;  
    ...
}
sub end_head1 {
    my($self) = @_;  
    ...
}

...and start_/end_ methods for whatever other events you want to catch.

=head1 DESCRIPTION

This class is of interest to people writing Pod formatters based on Pod::Simple.

This class (which is very small -- read the source) overrides Pod::Simple's
_handle_element_start, _handle_text, and _handle_element_end methods
so that parser events are turned into method calls. (Otherwise, this is a subclass of L<Pod::Simple>
and inherits all its methods.)

You can use this class as the base class for a Pod formatter/processor.

=head1 METHOD CALLING

When Pod::Simple sees a "=head1 Hi there", for example, it basically does this:

$parser->_handle_element_start( "head1", \%attributes );
$parser->_handle_text( "Hi there" );
$parser->_handle_element_end( "head1" );

But if you subclass Pod::Simple::Methody, it will instead do this when it sees a "=head1 Hi there":

$parser->start_head1( \%attributes ) if $parser->can('start_head1');
$parser->handle_text( "Hi there" ) if $parser->can('handle_text');
If Pod::Simple sends an event where the element name has a dash, period, or colon, the corresponding method name will have a underscore in its place. For example, "foo.bar:baz" becomes start_foo_bar_baz and end_foo_bar_baz.

See the source for Pod::Simple::Text for an example of using this class.

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Subclassing>

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NAME

Pod::Simple::Search - find POD documents in directory trees

SYNOPSIS

use Pod::Simple::Search;
my $name2path = Pod::Simple::Search->new->limit_glob('LWP::*')->survey;
print "Looky see what I found: ",
  join(', sort keys %$name2path), "\n";

print "LWP::UserAgent docs = ",
  Pod::Simple::Search->new->find('LWP::UserAgent') || "?",
  "\n";

DESCRIPTION

B<Pod::Simple::Search> is a class that you use for running searches for Pod files. An object of this class has several attributes (mostly options for controlling search options), and some methods for searching based on those attributes.

The way to use this class is to make a new object of this class, set any options, and then call one of the search options (probably C<survey> or C<find>). The sections below discuss the syntaxes for doing all that.

CONSTRUCTOR

This class provides the one constructor, called C<new>.
It takes no parameters:

use Pod::Simple::Search;
my $search = Pod::Simple::Search->new;

=head1 ACCESSORS

This class defines several methods for setting (and, occasionally, reading) the contents of an object. With two exceptions (discussed at the end of this section), these attributes are just for controlling the way searches are carried out.

Note that each of these return C<$self> when you call them as C<< $self-><whatever(value)> >>. That's so that you can chain together set-attribute calls like this:

my $name2path =
    Pod::Simple::Search->new
    ->inc(0) ->verbose(1) ->callback(&blab)
    ->survey(@there);

...which works exactly as if you'd done this:

my $search = Pod::Simple::Search->new;
$search->inc(0);
$search->verbose(1);
$search->callback(&blab);
my $name2path = $search->survey(@there);

=over

=item $search->inc( I<true-or-false> );

This attribute, if set to a true value, means that searches should implicitly add perl's I:@INC> paths. This automatically considers paths specified in the C<PERL5LIB> environment as this is prepended to I:@INC> by the Perl interpreter itself. This attribute's default value is B<TRUE>. If you want to search only specific directories, set $self->inc(0) before calling $inc->survey or $inc->find.

=item $search->verbose( I<nonnegative-number> );

This attribute, if set to a nonzero positive value, will make searches output (via C<warn>) notes about what they're doing as they do it. This option may be useful for debugging a pod-related module. This attribute's default value is zero, meaning that no C<warn> messages are produced. (Setting verbose to 1 turns on some messages, and setting it to 2 turns on even more messages, i.e., makes the following search(es) even more verbose than 1 would make them.)
This option means that you want to limit the results just to items whose podnames match the given glob/wildcard expression. For example, you might limit your search to just "LWP::*", to search only for modules starting with "LWP::*" (but not including the module "LWP" itself); or you might limit your search to "LW*" to see only modules whose (full) names begin with "LW"; or you might search for "*Find*" to search for all modules with "Find" somewhere in their full name. (You can also use "?" in a glob expression; so "DB?" will match "DBI" and "DBD".)

This attribute means that every time this search sees a matching Pod file, it should call this callback routine. The routine is called with two parameters: the current file's filespec, and its pod name. (For example: C<"/etc/perljunk/File/Crunk.pm", "File::Crunk"> would be in C<@_>).

The callback routine's return value is not used for anything.

Unless you set this attribute to a true value, Pod::Search will apply Perl-specific heuristics to find the correct module PODs quickly. This attribute's default value is false. You won't normally need to set this to true.

Specifically: Turning on this option will disable the heuristics for seeing only files with Perl-like extensions, omitting subdirectories that are numeric but do I<not> match the current Perl interpreter's version ID, suppressing F<site_perl> as a module hierarchy name, etc.

Unless you set this attribute to a false value, Pod::Search will recurse into subdirectories of the search directories.

Unless you set this attribute to a true value, Pod::Simple::Search will consider only the first file of a given modulename as it looks thru the specified directories; that is, with this option off, if
Pod::Simple::Search has seen a \$path/\$file already in this search, then it won't bother looking at a \$another/\$file later on in that search, because that file is merely a "shadow". But if you turn on \$self->shadows(1), then these "shadow" files are inspected too, and are noted in the pathname2podname return hash.

This attribute's default value is false; and normally you won't need to turn it on.

=attr $search->limit_re( \$reexp )

Setting this attribute (to a value that's a regexp) means that you want to limit the results just to items whose podnames match the given regexp. Normally this option is not needed, and the more efficient \$search->limit_glob() attribute is used instead.

=attr $search->dir_prefix( \$subdir )

Setting this attribute to a string value means that the searches should begin in the specified subdirectory name (like "Pod" or "File::Find", also expressible as "File/Find"). For example, the search option \$search->limit_glob("File::Find::R*") is the same as the combination of the search options \$search->limit_re("^File::Find::R") -> dir_prefix("File::Find")

Normally you don't need to know about the \$search->dir_prefix() option, but I include it in case it might prove useful for someone somewhere.

(Implementationally, searching with limit_glob ends up setting limit_re and usually dir_prefix.)

=attr $search->progress( \$progress )

If you set a value for this attribute, the value is expected to be an object (probably of a class that you define) that has a \$search's reach method and a \$search's done method. This is meant for reporting progress during the search, if you don't want to use a simple callback.

Normally you don't need to know about the \$search's progress option, but I include it in case it might prove useful for someone somewhere.

While a search is in progress, the progress object's \$search's reach and \$search's done methods are called like this:
Every time a file is being scanned for pod:
$progress->reach($count, "Scanning $file");  ++$count;

And then at the end of the search:
$progress->done("Noted $count Pod files total");

Internally, we often set this to an object of class Pod::Simple::Progress. That class is probably undocumented, but you may wish to look at its source.

$name2path = $self->name2path;

This attribute is not a search parameter, but is used to report the result of C<survey> method, as discussed in the next section.

$path2name = $self->path2name;

This attribute is not a search parameter, but is used to report the result of C<survey> method, as discussed in the next section.

=head1 MAIN SEARCH METHODS

Once you've actually set any options you want (if any), you can go ahead and use the following methods to search for Pod files in particular ways.

=over

=item C<name2path>

A hash that maps from each pod-name to the filespec (like "Stuff::Thing" => "/whatever/plib/Stuff/Thing.pm")

=item C<path2name>

=head2 C<< $search->survey( @directories ) >>

The method C<survey> searches for POD documents in a given set of files and/or directories. This runs the search according to the various options set by the accessors above. (For example, if the C<inc> attribute is on, as it is by default, then the perl @INC directories are implicitly added to the list of directories (if any) that you specify.)

The return value of C<survey> is two hashes:

=over

=item C<name2path>

=item C<path2name>
A hash that maps from each Pod filespec to its pod-name (like
"/whatever/plib/Stuff/Thing.pm" => "Stuff::Thing")

=back

Besides saving these hashes as the hashref attributes
C<name2path> and C<path2name>, calling this function also returns
these hashrefs. In list context, the return value of
C<< $search->survey >> is the list C<(%name2path, %path2name)>.  
In scalar context, the return value is C<%name2path>. 
Or you can just call this in void context.

Regardless of calling context, calling C<survey> saves
its results in its C<name2path> and C<path2name> attributes.

E.g., when searching in F<$HOME/perl5lib>, the file
F<$HOME/perl5lib/MyModule.pm> would get the POD name I<MyModule>,
whereas F<$HOME/perl5lib/Myclass/Subclass.pm> would be
I<Myclass::Subclass>. The name information can be used for POD
translators.

Only text files containing at least one valid POD command are found.

In verbose mode, a warning is printed if shadows are found (i.e., more
than one POD file with the same POD name is found, e.g. F<CPAN.pm> in
different directories). This usually indicates duplicate occurrences of
modules in the I<@INC> search path, which is occasionally inadvertent
(but is often simply a case of a user's path dir having a more recent
version than the system's general path dirs in general.)

The options to this argument is a list of either directories that are
searched recursively, or files. (Usually you wouldn't specify files,
but just dirs.) Or you can just specify an empty-list, as in
$name2path; with the C<inc> option on, as it is by default.

The POD names of files are the plain basenames with any Perl-like
extension (.pm, .pl, .pod) stripped, and path separators replaced by
C<>::'s.

Calling Pod::Simple::Search->search(...) is short for
Pod::Simple::Search->new->search(...). That is, a throwaway object
with default attribute values is used.

=head2 C<< $search->simplify_name( $str ) >>

The method B<simplify_name> is equivalent to B<basename>, but also
strips Perl-like extensions (.pm, .pl, .pod) and extensions like
F<.bat>, F<.cmd> on Win32 and OS/2, or F<.com> on VMS, respectively.

=head2 $search->find($pod)

=head2 $search->find($pod, @search_dirs)

Returns the location of a Pod file, given a Pod/module/script name
(like "Foo::Bar" or "perlvar" or "perldoc"), and an idea of
what files/directories to look in.
It searches according to the various options set by the accessors above.
(For example, if the C<inc> attribute is on, as it is by default, then
the perl @INC directories are implicitly added to the list of
directories (if any) that you specify.)

This returns the full path of the first occurrence to the file.
Package names (eg 'A::B') are automatically converted to directory
names in the selected directory. Additionally, '.pm', '.pl' and '.pod'
are automatically appended to the search as required.
(So, for example, under Unix, "A::B" is converted to "somedir/A/B.pm",
"somedir/A/B.pod", or "somedir/A/B.pl", as appropriate.)

If no such Pod file is found, this method returns undef.

If any of the given search directories contains a F<pod/> subdirectory,
then it is searched. (That's how we manage to find F<pod/perlfunc>,
for example, which is usually in F<pod/perlfunc> in most Perl dists.)

The C<verbose> and C<inc> attributes influence the behavior of this
search; notably, C<inc>, if true, adds @INC I<and also
$Config::Config{'scriptdir'}> to the list of directories to search.

It is common to simply say C<< $filename = Pod::Simple::Search->new
->find("perlvar") >> so that just the @INC (well, and scriptdir)
directories are searched. (This happens because the C<inc>
attribute is true by default.)

Calling Pod::Simple::Search->find(...) is short for
Pod::Simple::Search->new->find(...). That is, a throwaway object
with default attribute values is used.

=head2 $self->contains_pod($file)

Returns true if the supplied filename (not POD module) contains some Pod
documentation.
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Pod::Simple was created by Sean M. Burke <sburke@cpan.org> with code borrowed from Marek Rouchal's L<Pod::Find>, which in turn heavily borrowed code from Nick Ing-Simmons' C<PodToHtml>.

But don't bother him, he's retired.

Pod::Simple is maintained by:

item * Allison Randal <allison@perl.org>

item * Hans Dieter Pearcey <hdp@cpan.org>

item * David E. Wheeler <dwheeler@cpan.org>

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-
# TODO: let it be an option whether a given subclass even wants little treelets?

__END__

=head1 NAME

Pod::Simple::LinkSection -- represent "section" attributes of L codes

=head1 SYNOPSIS

# a long story

=head1 DESCRIPTION

This class is not of interest to general users.

Pod::Simple uses this class for representing the value of the "section" attribute of "L" start-element events. Most applications can just use the normal stringification of objects of this class; they stringify to just the text content of the section, such as "foo" for
C<< LZ<<Stuff/foo>> >>, and "bar" for C<< LZ<<Stuff/bIZ<bar>> >>.

However, anyone particularly interested in getting the full value of the treelet, can just traverse the content of the treelet
@$treelet_object. To wit:

% perl -MData::Dumper -e
  "use base qw(Pod::Simple::Methody);
  sub start_L { print Dumper($_[1]{'section'}) )
  __PACKAGE__->new->parse_string_document('=head1 L<Foo/bI<ar>baz>>')"

Output:
$VAR1 = bless( [
  '',
  {}
  'b',
  bless( [
    'T',
    {}
    'ar'
  ]
  ]
)
But stringify it and you get just the text content:

```perl
% perl -MData::Dumper -e
"use base qw(Pod::Simple::Methody);
sub start_L { print Dumper( " . $_[1]{section} ) }
__PACKAGE__->new->parse_string_document('=head1 L<Foo/bI<ar>baz>>')
"
Output:
$VAR1 = 'barbaz';
```

=head1 SEE ALSO

L<Pod::Simple>

=head1 SUPPORT

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=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C.dwheeler@cpan.org

=head1 NAME

Pod::Simple - framework for parsing Pod

=head1 SYNOPSIS

TODO

=head1 DESCRIPTION

Pod::Simple is a Perl library for parsing text in the Pod ("plain old documentation") markup language that is typically used for writing documentation for Perl and for Perl modules. The Pod format is explained in L<perlpod>; the most common formatter is called C<perldoc>.

Be sure to read L</ENCODING> if your Pod contains non-ASCII characters.

Pod formatters can use Pod::Simple to parse Pod documents and render them into plain text, HTML, or any number of other formats. Typically, such formatters will be subclasses of Pod::Simple, and so they will inherit its methods, like C<parsed_file>.

If you're reading this document just because you have a Pod-processing subclass that you want to use, this document (plus the documentation for the subclass) is probably all you need to read.

If you're reading this document because you want to write a formatter subclass, continue reading it and then read L<Pod::Simple::Subclassing>, and...
then possibly even read `L<perlpodspec>` (some of which is for parser-writers, but much of which is notes to formatter-writers).

=head1 MAIN METHODS

=over

=item C<< $parser = I<SomeClass>::new(); >>

This returns a new parser object, where `I<SomeClass>` is a subclass of `Pod::Simple`.

=item C<< $parser->output_fh( *OUT ); >>

This sets the filehandle that `$parser`'s output will be written to. You can pass `*STDOUT` or `*STDERR`, otherwise you should probably do something like this:

```
my $outfile = "output.txt";
open TXTOUT, ">$outfile" or die "Can't write to $outfile: $!";
$parser->output_fh(*TXTOUT);
```

...before you call one of the `C<< $parser->parse_I<whatever> >>` methods.

=item C<< $parser->output_string( \$somestring ); >>

This sets the string that `$parser`'s output will be sent to, instead of any filehandle.

=item C<< $parser->parse_file( I<$some_filename> ); >>

=item C<< $parser->parse_file( *INPUT_FH ); >>

This reads the Pod content of the file (or filehandle) that you specify, and processes it with that `$parser` object, according to however `$parser`'s class works, and according to whatever parser options you have set up for this `$parser` object.

=item C<< $parser->parse_string_document( I<$all_content> ); >>

This works just like `parse_file` except that it reads the Pod content not from a file, but from a string that you have already in memory.

=item C<< $parser->parse_lines( I<...@lines..., undef ); >>

This processes the lines in `C<@lines>` (where each list item must be a
defined value, and must contain exactly one line of content -- so no
items like C"foo\nbar" are allowed). The final C<undef> is used to
indicate the end of document being parsed.

The other C<parser_I<whatever>> methods are meant to be called only once
per C<$parser> object; but C<parsing_lines> can be called as many times per
C<$parser> object as you want, as long as the last call (and only
the last call) ends with an C<undef> value.

=item C<< $parser->content_seen >>

This returns true only if there has been any real content seen for this
document. Returns false in cases where the document contains content,
but does not make use of any Pod markup.

=item C<< I<SomeClass>-filter( I<$filename> ); >>

=item C<< I<SomeClass>-filter( I<$INPUT_FH> ); >>

=item C<< I<SomeClass>-filter( I<$document_content> ); >>

This is a shortcut method for creating a new parser object, setting the
output handle to STDOUT, and then processing the specified file (or
filehandle, or in-memory document). This is handy for one-liners like
this:

perl -MPod::Simple::Text -e "Pod::Simple::Text->filter('thingy.pod')"

=over

=head1 SECONDARY METHODS

Some of these methods might be of interest to general users, as
well as of interest to formatter-writers.

Note that the general pattern here is that the accessor-methods
read the attribute's value with C<< $value = $parser->I<attribute> >>
and set the attribute's value with
C<< $parser->I<attribute>(I$newvalue) >>. For each accessor, I typically
only mention one syntax or another, based on which I think you are actually
most likely to use.

=over
The Pod parser normally expects to read octets and to convert those octets to characters based on the \$encoding declaration in the Pod source. Set this option to a true value to indicate that the Pod source is already a Perl character stream. This tells the parser to ignore any \$encoding command and to skip all the code paths involving decoding octets.

If you set this attribute to a true value, you will suppress the parser's complaints about irregularities in the Pod coding. By default, this attribute's value is false, meaning that irregularities will be reported.

Note that turning this attribute to true won't suppress one or two kinds of complaints about rarely occurring unrecoverable errors.

If you set this attribute to a true value, you will stop the parser from generating a "POD ERRORS" section at the end of the document. By default, this attribute's value is false, meaning that an errata section will be generated, as necessary.

If you set this attribute to a true value, it will send reports of parsing errors to STDERR. By default, this attribute's value is false, meaning that no output is sent to STDERR.

Setting \$complain_stderr also sets \$no_errata_section.

This returns the filename that this parser object was set to read from.

This returns true if \$parser has read from a source, and has seen Pod content in it.
This returns true if C<$parser> has read from a source, and come to the end of that source.

=item C<< $parser->strip_verbatim_indent( I<SOMEVALUE> ) >>

The perlpod spec for a Verbatim paragraph is "It should be reproduced exactly...", which means that the whitespace you've used to indent your verbatim blocks will be preserved in the output. This can be annoying for outputs such as HTML, where that whitespace will remain in front of every line. It's an unfortunate case where syntax is turned into semantics.

If the POD you're parsing adheres to a consistent indentation policy, you can have such indentation stripped from the beginning of every line of your verbatim blocks. This method tells Pod::Simple what to strip. For two-space indents, you'd use:

$parser->strip_verbatim_indent( " ");

For tab indents, you'd use a tab character:

$parser->strip_verbatim_indent("\t");

If the POD is inconsistent about the indentation of verbatim blocks, but you have figured out a heuristic to determine how much a particular verbatim block is indented, you can pass a code reference instead. The code reference will be executed with one argument, an array reference of all the lines in the verbatim block, and should return the value to be stripped from each line. For example, if you decide that you're fine to use the first line of the verbatim block to set the standard for indentation of the rest of the block, you can look at the first line and return the appropriate value, like so:

$new->strip_verbatim_indent(sub {
    my $lines = shift;
    (my $indent = $lines->[0]) =~ s/\S.*//;
    return $indent;
});

If you'd rather treat each line individually, you can do that, too, by just transforming them in-place in the code reference and returning C<undef>. Say that you don't want I<any> lines indented. You can do something like this:

$new->strip_verbatim_indent(sub {
    my $lines = shift;
    sub { s/^\s+// for @ { $lines },
    return undef;
});
TERTIARY METHODS

- **abandon_output_fh**: Cancel output to the file handle. Any POD read by the parser is not effected.

- **abandon_output_string**: Cancel output to the output string. Any POD read by the parser is not effected.

- **accept_code**: Alias for `accept_codes`.

- **accept_codes**: Allows the parser to accept a list of PerlPOD/Formatting Codes. This can be used to implement user-defined codes.

- **accept_directive_as_data**: Allows the parser to accept a list of directives for data paragraphs. A directive is the label of a PerlPOD/Command Paragraph. A data paragraph is one delimited by `=begin=/for/=end` directives. This can be used to implement user-defined directives.

- **accept_directive_as_processed**: Allows the parser to accept a list of directives for processed paragraphs. A directive is the label of a PerlPOD/Command Paragraph. A processed paragraph is also known as a PerlPOD/Ordinary Paragraph. This can be used to implement user-defined directives.

- **accept_directive_as_verbatim**: Allows the parser to accept a list of directives for PerlPOD/Verbatim Paragraph. A directive is the label of a PerlPOD/Command Paragraph. This can be used to implement user-defined directives.

- **accept_target**: Alias for `accept_targets`.
=item C<< $parser->accept_target_as_text( @targets ) >>
Alias for L<< accept_targets_as_text >>.

=item C<< $parser->accept_targets( @targets ) >>
Accepts targets for C<< =begin/=for/=end >> sections of the POD.

=item C<< $parser->accept_targets_as_text( @targets ) >>
Accepts targets for C<< =begin/=for/=end >> sections that should be parsed as
POD. For details, see L<< perlpodspec/About Data Paragraphs >>.

=item C<< $parser->any_errata_seen() >>
Used to check if any errata was seen.

I<Example:>

die "too many errors\n" if $parser->any_errata_seen();

=item C<< $parser->errata_seen() >>
Returns a hash reference of all errata seen, both whines and screams. The hash reference's keys are the line number
and the value is an array reference of the errors for that line.

I<Example:>

if ( $parser->any_errata_seen() ) {
  $logger->log( $parser->errata_seen() );
}

=item C<< $parser->detected_encoding() >>
Return the encoding corresponding to C<< =encoding >>, but only if the
encoding was recognized and handled.

=item C<< $parser->encoding() >>
Return encoding of the document, even if the encoding is not correctly
handled.

=item C<< $parser->parse_from_file( $source, $to ) >>
 Parses from C<$source> file to C<$to> file. Similar to L<<
Pod::Parser/parse_from_file >>.
Log an error that can't be ignored.

Alias for \p{unaccept\_codes}.

Removes \@codes as valid codes for the parse.

Alias for \p{unaccept\_directories}.

Removes \@directories as valid directives for the parse.

Alias for \p{unaccept\_targets}.

Removes \@targets as valid targets for the parse.

Returns a string describing the version.

Log an error unless \p{no\_whining}( TRUE );

ENCODING

The Pod::Simple parser expects to read \texttt{octets}. The parser will decode the octets into Perl's internal character string representation using the value of the \texttt{encoding} declaration in the POD source.

If the POD source does not include an \texttt{encoding} declaration, the parser will attempt to guess the encoding (selecting one of UTF-8 or CP 1252) by examining the first non-ASCII bytes and applying the heuristic described in \texttt{perlpodspec}. (If the POD source contains only ASCII bytes, the
encoding is assumed to be ASCII.)

If you set the `parse_characters` option to a true value the parser will expect characters rather than octets; will ignore any `encoding`; and will make no attempt to decode the input.

=head1 SEE ALSO

L<Pod::Simple::Subclassing>

L<perlpod>perlpod>

L<perlpo.spec>perlpo.spec>

L<Pod::Escapes>Pod::Escapes>

L<perldoc>

=head1 SUPPORT

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=head1 AUTHOR

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Pod::Simple is maintained by:
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple.pod
No license file was found, but licenses were detected in source scan.

=head1 NAME
Pod::Simple::DumpAsXML -- turn Pod into XML

=head1 SYNOPSIS
perl -MPod::Simple::DumpAsXML -e \
"exit Pod::Simple::DumpAsXML->filter(shift)->any_errata_seen" \
thingy.pod

=head1 DESCRIPTION
Pod::Simple::DumpAsXML is a subclass of L<Pod::Simple> that parses Pod
and turns it into indented and wrapped XML. This class is of
interest to people writing Pod formatters based on Pod::Simple.

Pod::Simple::DumpAsXML inherits methods from
L<Pod::Simple>.
=head1 SEE ALSO

L<Pod::Simple::XMLOutStream> is rather like this class.
Pod::Simple::XMLOutStream's output is space-padded in a way
that's better for sending to an XML processor (that is, it has
no ignorable whitespace). But
Pod::Simple::DumpAsXML's output is much more human-readable, being
(more-or-less) one token per line, with line-wrapping.

L<Pod::Simple::DumpAsText> is rather like this class,
except that it doesn't dump with XML syntax. Try them and see
which one you like best!

L<Pod::Simple>, L<Pod::Simple::DumpAsXML>

The older libraries L<Pod::PXML>, L<Pod::XML>, L<Pod::SAX>

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

=head1 NAME

Pod::Simple::TextContent -- get the text content of Pod

=head1 SYNOPSIS

TODO

perl -MPod::Simple::TextContent -e \n"exit Pod::Simple::TextContent->filter(shift)->any_errata_seen" \nthingy.pod

=head1 DESCRIPTION

This class is that parses Pod and dumps just the text content. It is mainly meant for use by the Pod::Simple test suite, but you may find some other use for it.

This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Text>, L<Pod::Spell>

=head1 SUPPORT

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Pod::Simple is maintained by:

=over
=item * Allison Randal <allison@perl.org>

=item * Hans Dieter Pearcey <hdp@cpan.org>

=item * David E. Wheeler <dwheeler@cpan.org>

=back

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/TextContent.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::PullParser -- a pull-parser interface to parsing Pod

=head1 SYNOPSIS
my $parser = SomePodProcessor->new;
$parser->set_source( "whatever.pod" );
$parser->run;

Or:

my $parser = SomePodProcessor->new;
$parser->set_source( $some_filehandle_object );
$parser->run;

Or:

my $parser = SomePodProcessor->new;
$parser->set_source( \$document_source );
$parser->run;

Or:

my $parser = SomePodProcessor->new;
$parser->set_source( \@document_lines );
$parser->run;

And elsewhere:

require 5;
package SomePodProcessor;
use strict;
use base qw(Pod::Simple::PullParser);

sub run {
    my $self = shift;
    Token:
        while(my $token = $self->get_token) {
            ...process each token...
        }
}

=head1 DESCRIPTION

This class is for using Pod::Simple to build a Pod processor -- but
one that uses an interface based on a stream of token objects,
instead of based on events.

This is a subclass of L<Pod::Simple> and inherits all its methods.

A subclass of Pod::Simple::PullParser should define a C<run> method
that calls C<< $token = $parser->get_token >> to pull tokens.
See the source for Pod::Simple::RTF for an example of a formatter that uses Pod::Simple::PullParser.

=head1 METHODS

=over

=item my $token = $parser->get_token

This returns the next token object (which will be of a subclass of L<Pod::Simple::PullParserToken>), or undef if the parser-stream has hit the end of the document.

=item $parser->unget_token( $token )

=item $parser->unget_token( $token1, $token2, ... )

This restores the token object(s) to the front of the parser stream.

=back

The source has to be set before you can parse anything. The lowest-level way is to call C<set_source>:

=over

=item $parser->set_source( $filename )

=item $parser->set_source( $filehandle_object )

=item $parser->set_source( $document_source )

=item $parser->set_source( @document_lines )

=back

Or you can call these methods, which Pod::Simple::PullParser has defined to work just like Pod::Simple's same-named methods:

=over

=item $parser->parse_file(...)

=item $parser->parse_string_document(...)

=item $parser->filter(...)

For those to work, the Pod-processing subclass of Pod::Simple::PullParser has to have defined a $parser->run method -- so it is advised that all Pod::Simple::PullParser subclasses do so. See the Synopsis above, or the source for Pod::Simple::RTF.

Authors of formatter subclasses might find these methods useful to call on a parser object that you haven't started pulling tokens from yet:

my $title_string = $parser->get_title

This tries to get the title string out of $parser, by getting some tokens, and scanning them for the title, and then ungetting them so that you can process the token-stream from the beginning.

For example, suppose you have a document that starts out:

=head1 NAME
Hoo::Boy::Wowza -- Stuff B<wow> yeah!

$parser->get_title on that document will return "Hoo::Boy::Wowza -- Stuff wow yeah!". If the document starts with:

=head1 Name
Hoo::Boy::W00t -- Stuff B<w00t> yeah!

Then you'll need to pass the C<nocase> option in order to recognize "Name":

$parser->get_title(nocase => 1);

In cases where get_title can't find the title, it will return empty-string ("").

my $title_string = $parser->get_short_title

This is just like get_title, except that it returns just the modulename, if the title seems to be of the form "SomeModuleName -- description".

For example, suppose you have a document that starts out:
=head1 NAME

Hoo:Boy::Wowza -- Stuff B<wow> yeah!

then $parser->get_short_title on that document will return "Hoo:Boy::Wowza".

But if the document starts out:

=head1 NAME

Hooboy, stuff B<wow> yeah!

then $parser->get_short_title on that document will return "Hooboy, stuff wow yeah!". If the document starts with:

=head1 Name

Hoo:Boy::W00t -- Stuff B<w00t> yeah!

Then you'll need to pass the C<nocase> option in order to recognize "Name":

$parser->get_short_title(nocase =&gt; 1);

If the title can't be found, then get_short_title returns empty-string (""").

=item $author_name   = $parser-&gt;get_author

This works like get_title except that it returns the contents of the "=head1 AUTHOR

Paragraph...
" section, assuming that that section isn't terribly long. To recognize a "=head1 Author

Paragraph
" section, pass the C<nocase> option:

$parser-&gt;get_author(nocase =&gt; 1);

(This method tolerates "AUTHORS" instead of "AUTHOR" too.)

=item $description_name = $parser-&gt;get_description

This works like get_title except that it returns the contents of the "=head1 DESCRIPTION

Paragraph...
" section, assuming that that section isn't terribly long. To recognize a "=head1 Description

Paragraph
" section, pass the C<nocase> option:

$parser-&gt;get_description(nocase =&gt; 1);

=item $version_block = $parser-&gt;get_version
This works like get_title except that it returns the contents of the "=head1 VERSION\n[\n[\BIG BLOCK]\n]n" block. Note that this does NOT return the module's C<$VERSION>!! To recognize a "=head1 Version\n[\n[\BIG BLOCK]\n]n" section, pass the C<nocase> option:

$parser->get_version(nocase => 1);

=back

=head1 NOTE

You don't actually I<have> to define a C<run> method. If you're writing a Pod-formatter class, you should define a C<run> just so that users can call C<parse_file> etc, but you don't I<have> to.

And if you're not writing a formatter class, but are instead just writing a program that does something simple with a Pod::PullParser object (and not an object of a subclass), then there's no reason to bother subclassing to add a C<run> method.

=head1 SEE ALSO

L<Pod::Simple>

L<Pod::Simple::PullParserToken> -- and its subclasses
L<Pod::Simple::PullParserStartToken>,
L<Pod::Simple::PullParserTextToken>, and
L<Pod::Simple::PullParserEndToken>.

L<HTML::TokeParser>, which inspired this.

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository,
L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

=head1 COPYRIGHT AND DISCLAIMERS

Copyright (c) 2002 Sean M. Burke.
This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

This program is distributed in the hope that it will be useful, but without any warranty; without even the implied warranty of merchantability or fitness for a particular purpose.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item * Allison Randal <allison@perl.org>

=item * Hans Dieter Pearcey <hdp@cpan.org>

=item * David E. Wheeler <dwheeler@cpan.org>

=back

=cut

JUNK:

sub _old_get_title { # some witchery in here
  my $self = $_[0];
  my $title;
  my @to_unget;

  while(1) {
    push @to_unget, $self->get_token;
    unless(defined $to_unget[-1]) { # whoops, short doc!
      pop @to_unget;
      last;
    }
    DEBUG and print STDERR "-Got token ", $to_unget[-1]->dump, "\n";
    (DEBUG and print STDERR "Too much in the buffer.\n"),
    last if @to_unget > 25; # sanity
    my $pattern = "\n";
    if (!$to_unget[-1]->type eq 'end'

}
#and $to_unget[-1]->tagname eq 'Para'
#and
($pattern = join('',
map {;
($_->type eq 'start') ? ("<" . $_->tagname .">")
: ($_->type eq 'end' ) ? ("</". $_->tagname .">")
: ($_->type eq 'text' ) ? ($_->text =~ m<^([A-Z]+)$>s ? $1 : 'X')
: "BLORP"
} @to_unget
)) =~ m{<head1>NAME</head1><Para>(X|</?[BCIFLS]>)+</Para>$}s
){
# Whee, it fits the pattern
DEBUG and print STDERR "Seems to match =head1 NAME pattern.\n";
$title = '';
foreach my $t (reverse @to_unget) {
last if $t->type eq 'start' and $t->tagname eq 'Para';
$title = $t->text . $title if $t->type eq 'text';
}
undef $title if $title =~ m<^\s*$>; # make sure it's contentful!
last;
} elsif ($pattern =~ m{<head(\d)>(.+)</head\d>$}
and !( $1 eq '1' and $2 eq 'NAME' )
){
# Well, it fits a fallback pattern
DEBUG and print STDERR "Seems to match NAMEless pattern.\n";
$title = '';
foreach my $t (reverse @to_unget) {
last if $t->type eq 'start' and $t->tagname =~ m/^head\d$/s;
$title = $t->text . $title if $t->type eq 'text';
}
undef $title if $title =~ m<^\s*$>; # make sure it's contentful!
last;
} else {
DEBUG and $pattern and print STDERR "Leading pattern: $pattern\n";
}
}
# Put it all back:
$self->unget_token(@to_unget);
if(DEBUG) {
if(defined $title) { print STDERR " Returning title <$title>\n" }
else { print STDERR "Returning title <>\n" }
}
return '' unless defined $title;

Open Source Used In Connected-Pharma 1.5-UI & ServiceLayer 9041


return $title;
}

NAME
perlfaq3 - Programming Tools ($Revision: 1.38 $, $Date: 1999/05/23 16:08:30 $)

DESCRIPTION
This section of the FAQ answers questions related to programmer tools and programming support.

How do I do (anything)?
Have you looked at CPAN (see perlfaq2)? The chances are that someone has already written a module that can solve your problem. Have you read the appropriate man pages? Here's a brief index:

Basics  perldata, perlvar, perlsyn, perlop, perlsub
Execution perlrun, perldump
Functions perlfunc
Objects perlref, perlmod, perlobj, perltie
Data Structures perlref, perllol, perlldc
Modules perlmod, perlmodlib, perlsub
Regexes perlre, perlfunc, perlop, perllocale
Moving to perl5 perltrap, perl
Linking w/C perlxsut, perlxs, percall, perlgs, perlembed
(not a man-page but still useful)

A crude table of contents for the Perl man page set is found in perltoc.

How can I use Perl interactively?
The typical approach uses the Perl debugger, described in the perldump(1) man page, on an ```empty`` program, like this:

perl -de 42

Now just type in any legal Perl code, and it will be immediately evaluated. You can also examine the symbol table, get stack backtraces, check variable values, set breakpoints, and other operations typically found in symbolic debuggers.

Is there a Perl shell?
In general, no. The Shell.pm module (distributed with Perl) makes Perl try commands which aren't part of the Perl language as shell commands. perlsh from the source distribution is simplistic and uninteresting, but may still be what you want.

How do I debug my Perl programs?
Have you tried use warnings or used -w? They enable warnings to detect dubious practices.
Have you tried use strict? It prevents you from using symbolic references, makes you predeclare any subroutines that you call as bare words, and (probably most importantly) forces you to predeclare your variables with my, our, or use vars.

Did you check the return values of each and every system call? The operating system (and thus Perl) tells you whether they worked, and if not why.

open(FH, "> /etc/cantwrite")
or die "Couldn't write to /etc/cantwrite: $!\n";
Did you read perltrap? It's full of gotchas for old and new Perl programmers and even has sections for those of you who are upgrading from languages like awk and C.

Have you tried the Perl debugger, described in perldebug? You can step through your program and see what it's doing and thus work out why what it's doing isn't what it should be doing.

How do I profile my Perl programs?

You should get the Devel::DProf module from the standard distribution (or separately on CPAN) and also use Benchmark.pm from the standard distribution. The Benchmark module lets you time specific portions of your code, while Devel::DProf gives detailed breakdowns of where your code spends its time.

Here's a sample use of Benchmark:

```perl
use Benchmark;
@junk = `cat /etc/motd`;
$count = 10_000;
timethese($count, {
    'map' => sub { my @a = @junk;
        map { s/a/b/ } @a;
        return @a
    },
    'for' => sub { my @a = @junk;
        local $_;
        for (@a) { s/a/b/ ;}
        return @a
    },
});
```

This is what it prints (on one machine--your results will be dependent on your hardware, operating system, and the load on your machine):

Benchmark: timing 10000 iterations of for, map...
  for: 4 secs (3.97 usr 0.01 sys = 3.98 cpu)
  map: 6 secs (4.97 usr 0.00 sys = 4.97 cpu)

Be aware that a good benchmark is very hard to write. It only tests the data you give it and proves little about the differing complexities of contrasting algorithms.

How do I cross-reference my Perl programs?

The B::Xref module, shipped with the new, alpha-release Perl compiler (not the general distribution prior to the 5.005 release), can be used to generate cross-reference reports for Perl programs.

```perl
perl -MO=Xref,[OPTIONS] scriptname.plx
```

Is there a pretty-printer (formatter) for Perl?

There is no program that will reformat Perl as much as indent(1) does for C. The complex feedback between the scanner and the parser (this feedback is what confuses the vgrind and emacs programs) makes it challenging at best to write a stand-alone Perl parser.

Of course, if you simply follow the guidelines in perlstyle, you shouldn't need to reformat. The habit of formatting your code as you write it will help prevent bugs. Your editor can and should help you with this. The perl-mode or newer cperl-mode for emacs can provide remarkable amounts of help with most (but not all) code, and even less programmable editors can provide significant assistance. Tom swears by the following settings in vi and its clones:

```bash
set ai sw=4
map! ^O {^M}^[[O^T
```

Now put that in your .exrc file (replacing the caret characters with control characters) and away you go. In insert mode, ^T is for indenting, ^D is for undenting, and ^O is for blockdenting-- as it were. If you haven't used the last one, you're missing a lot. A more complete example, with comments, can be found at http://www.perl.com/CPAN-local/authors/id/TOMC/scripts/toms.exrc.gz

If you are used to using the vgrind program for printing out nice code to a laser printer, you can take a stab at this...
using http://www.perl.com/CPAN/doc/misc/tips/working.vgrind.entry, but the results are not particularly satisfying for sophisticated code.
The a2ps at http://www.infres.enst.fr/~Edemaille/a2ps/ does lots of things related to generating nicely printed output of documents.
Is there a ctags for Perl?
There's a simple one at http://www.perl.com/CPAN/authors/id/TOMC/scripts/ptags.gz which may do the trick. And if not, it's easy to hack into what you want.
Is there an IDE or Windows Perl Editor?
Perl programs are just plain text, so any editor will do.
If you're on Unix, you already have an IDE--Unix itself. The UNIX philosophy is the philosophy of several small tools that each do one thing and do it well. It's like a carpenter's toolbox.
If you want a Windows IDE, check the following:
CodeMagicCD
http://www.codemagiccd.com/
Komodo
ActiveState's cross-platform, multi-language IDE has Perl support, including a regular expression debugger and remote debugging (http://www.ActiveState.com/Products/Komodo/index.html). (Visual Perl, a Visual Studio.NET plug-in is currently (early 2001) in beta (http://www.ActiveState.com/Products/VisualPerl/index.html)).
The Object System
(http://www.castlelink.co.uk/object_system/) is a Perl web applications development IDE.
PerlBuilder
(http://www.solutionsoft.com/perl.htm) is an integrated development environment for Windows that supports Perl development.
Perl code magic
(http://www.petes-place.com/codemagic.html).
visiPerl+
http://helpconsulting.net/visiperl/, from Help Consulting.
For editors: if you're on Unix you probably have vi or a vi clone already, and possibly an emacs too, so you may not need to download anything. In any emacs the cperl-mode (M-x cperl-mode) gives you perhaps the best available Perl editing mode in any editor.
For Windows editors, you can download an Emacs
GNU Emacs
http://www.gnu.org/software/emacs/windows/ntemacs.html
MicroEMACS
http://members.nbci.com/uemacs/
XEmacs
http://www.xemacs.org/Download/index.html
or a vi clone such as
Elvis
Vile
http://vile.cx/
Vim
http://www.vim.org/
nvi (http://www.bostic.com/vi/, available from CPAN in src/misc/) is yet another vi clone, unfortunately not available for Windows, but in UNIX platforms you might be interested in trying it out, firstly because strictly
speaking it is not a vi clone, it is the real vi, or the new incarnation of it, and secondly because you can embed Perl inside it to use Perl as the scripting language. nvi is not alone in this, though: at least also vim and vile offer an embedded Perl.

The following are Win32 multilanguage editor/IDESs that support Perl:

- Codewright
  http://www.starbase.com/
- MultiEdit
- SlickEdit
  http://www.slickedit.com/

There is also a toyedit Text widget based editor written in Perl that is distributed with the Tk module on CPAN. The ptkdb (http://world.std.com/~aep/ptkdb/) is a Perl/tk based debugger that acts as a development environment of sorts. Perl Composer (http://perlcomposer.sourceforge.net/vperl.html) is an IDE for Perl/Tk GUI creation.

In addition to an editor/IDE you might be interested in a more powerful shell environment for Win32. Your options include

- Bash
  from the Cygwin package (http://sources.redhat.com/cygwin/)
- Ksh
  from the MKS Toolkit (http://www.mks.com/), or the Bourne shell of the U/WIN environment (http://www.research.att.com/sw/tools/uwin/)
- Tcsh
- Zsh
  ftp://ftp.blarg.net/users/amol/zsh/, see also http://www.zsh.org/

MKS and U/WIN are commercial (U/WIN is free for educational and research purposes), Cygwin is covered by the GNU Public License (but that shouldn't matter for Perl use). The Cygwin, MKS, and U/WIN all contain (in addition to the shells) a comprehensive set of standard UNIX toolkit utilities.

If you're transferring text files between Unix and Windows using FTP be sure to transfer them in ASCII mode so the ends of lines are appropriately converted.

On Mac OS the MacPerl Application comes with a simple 32k text editor that behaves like a rudimentary IDE. In contrast to the MacPerl Application the MPW Perl tool can make use of the MPW Shell itself as an editor (with no 32k limit).

BBEdit and BBEdit Lite
are text editors for Mac OS that have a Perl sensitivity mode (http://web.barebones.com/).

Alpha
is an editor, written and extensible in Tcl, that nonetheless has built in support for several popular markup and programming languages including Perl and HTML (http://alpha.olm.net/).

Pepper and Pe are programming language sensitive text editors for Mac OS X and BeOS respectively (http://www.hekkelman.com/).

Where can I get Perl macros for vi?
For a complete version of Tom Christiansen's vi configuration file, see http://www.perl.com/CPAN/authors/Tom_Christiansen/scripts/toms.exrc.gz, the standard benchmark file for vi emulators. The file runs best with nvi, the current version of vi out of Berkeley, which incidentally can be built with an embedded Perl interpreter--see http://www.perl.com/CPAN/src/misc.

Where can I get perl-mode for emacs?
Since Emacs version 19 patchlevel 22 or so, there have been both a perl-mode.el and support for the Perl debugger built in. These should come with the standard Emacs 19 distribution.

In the Perl source directory, you'll find a directory called "emacs", which contains a cperl-mode that color-codes
keywords, provides context-sensitive help, and other nifty things. Note that the perl-mode of emacs will have fits with "main'foo" (single quote), and mess up the indentation and highlighting. You are probably using "main::foo" in new Perl code anyway, so this shouldn't be an issue.

How can I use curses with Perl?
The Curses module from CPAN provides a dynamically loadable object module interface to a curses library. A small demo can be found at the directory http://www.perl.com/CPAN/authors/Tom_Christiansen/scripts/rep; this program repeats a command and updates the screen as needed, rendering rep ps axu similar to top.

How can I use X or Tk with Perl?
Tk is a completely Perl-based, object-oriented interface to the Tk toolkit that doesn't force you to use Tcl just to get at Tk. Sx is an interface to the Athena Widget set. Both are available from CPAN. See the directory http://www.perl.com/CPAN/modules/by-category/08_User_Interfaces/


How can I generate simple menus without using CGI or Tk?
The http://www.perl.com/CPAN/authors/id/SKUNZ/perlmenu.v4.0.tar.gz module, which is curses-based, can help with this.

What is undump?
See the next question on "How can I make my Perl program run faster?"

How can I make my Perl program run faster?
The best way to do this is to come up with a better algorithm. This can often make a dramatic difference. Jon Bentley's book "Programming Pearls" (that's not a misspelling!) has some good tips on optimization, too. Advice on benchmarking boils down to: benchmark and profile to make sure you're optimizing the right part, look for better algorithms instead of microtuning your code, and when all else fails consider just buying faster hardware.

A different approach is to autoload seldom-used Perl code. See the AutoSplit and AutoLoader modules in the standard distribution for that. Or you could locate the bottleneck and think about writing just that part in C, the way we used to take bottlenecks in C code and write them in assembler. Similar to rewriting in C, modules that have critical sections can be written in C (for instance, the PDL module from CPAN).

In some cases, it may be worth it to use the backend compiler to produce byte code (saving compilation time) or compile into C, which will certainly save compilation time and sometimes a small amount (but not much) execution time. See the question about compiling your Perl programs for more on the compiler--the wins aren't as obvious as you'd hope.

If you're currently linking your perl executable to a shared libc.so, you can often gain a 10-25% performance benefit by rebuilding it to link with a static libc.a instead. This will make a bigger perl executable, but your Perl programs (and programmers) may thank you for it. See the INSTALL file in the source distribution for more information. Unsubstantiated reports allege that Perl interpreters that use sfio outperform those that don't (for I/O intensive applications). To try this, see the INSTALL file in the source distribution, especially the "Selecting File I/O mechanisms" section.

The undump program was an old attempt to speed up your Perl program by storing the already-compiled form to disk. This is no longer a viable option, as it only worked on a few architectures, and wasn't a good solution anyway.

How can I make my Perl program take less memory?
When it comes to time-space tradeoffs, Perl nearly always prefers to throw memory at a problem. Scalars in Perl use more memory than strings in C, arrays take more than that, and hashes use even more. While there's still a lot to be done, recent releases have been addressing these issues. For example, as of 5.004, duplicate hash keys are shared amongst all hashes using them, so require no reallocation.

In some cases, using substr() or vec() to simulate arrays can be highly beneficial. For example, an array of a thousand booleans will take at least 20,000 bytes of space, but it can be turned into one 125-byte bit vector--a considerable memory savings. The standard Tie::SubstrHash module can also help for certain types of data structure.
If you're working with specialist data structures (matrices, for instance) modules that implement these in C may use less memory than equivalent Perl modules.

Another thing to try is learning whether your Perl was compiled with the system malloc or with Perl's builtin malloc. Whichever one it is, try using the other one and see whether this makes a difference. Information about malloc is in the INSTALL file in the source distribution. You can find out whether you are using perl's malloc by typing perl -V:usemymalloc.

Is it unsafe to return a pointer to local data?

No, Perl's garbage collection system takes care of this.

```perl
sub makeone {
    my @a = ( 1 .. 10 );
    return \@a;
}

for $i ( 1 .. 10 ) {
    push @many, makeone();
}

print $many[4][5], "\n";

print "@many\n";
```

How can I free an array or hash so my program shrinks?

You can't. On most operating systems, memory allocated to a program can never be returned to the system. That's why long-running programs sometimes re-exec themselves. Some operating systems (notably, FreeBSD and Linux) allegedly reclaim large chunks of memory that is no longer used, but it doesn't appear to happen with Perl (yet). The Mac appears to be the only platform that will reliably (albeit, slowly) return memory to the OS.

We've had reports that on Linux (Redhat 5.1) on Intel, undef $scalar will return memory to the system, while on Solaris 2.6 it won't. In general, try it yourself and see.

However, judicious use of my() on your variables will help make sure that they go out of scope so that Perl can free up that space for use in other parts of your program. A global variable, of course, never goes out of scope, so you can't get its space automatically reclaimed, although undef()ing and/or delete()ing it will achieve the same effect. In general, memory allocation and de-allocation isn't something you can or should be worrying about much in Perl, but even this capability (preallocation of data types) is in the works.

How can I make my CGI script more efficient?

Beyond the normal measures described to make general Perl programs faster or smaller, a CGI program has additional issues. It may be run several times per second. Given that each time it runs it will need to be re-compiled and will often allocate a megabyte or more of system memory, this can be a killer. Compiling into C isn't going to help you because the process start-up overhead is where the bottleneck is.

There are two popular ways to avoid this overhead. One solution involves running the Apache HTTP server (available from http://www.apache.org/) with either of the mod_perl or mod_fastcgi plugin modules.

With mod_perl and the Apache::Registry module (distributed with mod_perl), httpd will run with an embedded Perl interpreter which pre-compiles your script and then executes it within the same address space without forking. The Apache extension also gives Perl access to the internal server API, so modules written in Perl can do just about anything a module written in C can. For more on mod_perl, see http://perl.apache.org/

With the FCGI module (from CPAN) and the mod_fastcgi module (available from http://www.fastcgi.com/) each of your Perl programs becomes a permanent CGI daemon process.

Both of these solutions can have far-reaching effects on your system and on the way you write your CGI programs, so investigate them with care.


A non-free, commercial product, "The Velocity Engine for Perl", (http://www.binevolve.com/ or http://www.binevolve.com/velocigen/ ) might also be worth looking at. It will allow you to increase the performance of your Perl programs, running programs up to 25 times faster than normal CGI Perl when running in persistent Perl
mode or 4 to 5 times faster without any modification to your existing CGI programs. Fully functional evaluation copies are available from the web site.

How can I hide the source for my Perl program?
Delete it. :-) Seriously, there are a number of (mostly unsatisfactory) solutions with varying levels of "security". First of all, however, you can't take away read permission, because the source code has to be readable in order to be compiled and interpreted. (That doesn't mean that a CGI script's source is readable by people on the web, though—only by people with access to the filesystem.) So you have to leave the permissions at the socially friendly 0755 level.

Some people regard this as a security problem. If your program does insecure things and relies on people not knowing how to exploit those insecurities, it is not secure. It is often possible for someone to determine the insecure things and exploit them without viewing the source. Security through obscurity, the name for hiding your bugs instead of fixing them, is little security indeed.

You can try using encryption via source filters (Filter::* from CPAN), but any decent programmer will be able to decrypt it. You can try using the byte code compiler and interpreter described below, but the curious might still be able to de-compile it. You can try using the native-code compiler described below, but crackers might be able to disassemble it. These pose varying degrees of difficulty to people wanting to get at your code, but none can definitively conceal it (true of every language, not just Perl).

If you're concerned about people profiting from your code, then the bottom line is that nothing but a restrictive license will give you legal security. License your software and pepper it with threatening statements like "This is unpublished proprietary software of XYZ Corp. Your access to it does not give you permission to use it blah blah blah." We are not lawyers, of course, so you should see a lawyer if you want to be sure your license's wording will stand up in court.

How can I compile my Perl program into byte code or C?
Malcolm Beattie has written a multifunction backend compiler, available from CPAN, that can do both these things. It is included in the perl5.005 release, but is still considered experimental. This means it's fun to play with if you're a programmer but not really for people looking for turn-key solutions.

Merely compiling into C does not in and of itself guarantee that your code will run very much faster. That's because except for lucky cases where a lot of native type inferencing is possible, the normal Perl run-time system is still present and so your program will take just as long to run and be just as big. Most programs save little more than compilation time, leaving execution no more than 10-30% faster. A few rare programs actually benefit significantly (even running several times faster), but this takes some tweaking of your code.

You'll probably be astonished to learn that the current version of the compiler generates a compiled form of your script whose executable is just as big as the original perl executable, and then some. That's because as currently written, all programs are prepared for a full eval() statement. You can tremendously reduce this cost by building a shared libperl.so library and linking against that. See the INSTALL podfile in the Perl source distribution for details.

If you link your main perl binary with this, it will make it minuscule. For example, on one author's system, /usr/bin/perl is only 11k in size!

In general, the compiler will do nothing to make a Perl program smaller, faster, more portable, or more secure. In fact, it can make your situation worse. The executable will be bigger, your VM system may take longer to load the whole thing, the binary is fragile and hard to fix, and compilation never stopped software piracy in the form of crackers, viruses, or bootleggers. The real advantage of the compiler is merely packaging, and once you see the size of what it makes (well, unless you use a shared libperl.so), you'll probably want a complete Perl install anyway.

How can I compile Perl into Java?
You can also integrate Java and Perl with the Perl Resource Kit from O'Reilly and Associates. See http://www.oreilly.com/catalog/prkunix/.

Perl 5.6 comes with Java Perl Lingo, or JPL. JPL, still in development, allows Perl code to be called from Java. See jpl/README in the Perl source tree.

How can I get #!perl to work on [MS-DOS,NT,...]?
For OS/2 just use
extproc perl -S -your_switches
as the first line in *.cmd file (-S due to a bug in cmd.exe's `extproc' handling). For DOS one should first invent a
corresponding batch file and codify it in ALTERNATIVE_SHEBANG (see the INSTALL file in the source
distribution for more information).
The Win95/NT installation, when using the ActiveState port of Perl, will modify the Registry to associate the .pl
extension with the perl interpreter. If you install another port, perhaps even building your own Win95/NT Perl from
the standard sources by using a Windows port of gcc (e.g., with cygwin or mingw32), then you'll have to modify the
Registry yourself. In addition to associating .pl with the interpreter, NT people can use: SET
PATHEXT=%PATHEXT%;.PL to let them run the program install-linux.pl merely by typing install-linux.
Macintosh Perl programs will have the appropriate Creator and Type, so that double-clicking them will invoke the
Perl application.
IMPORTANT!: Whatever you do, PLEASE don't get frustrated, and just throw the perl interpreter into your cgi-bin
directory, in order to get your programs working for a web server. This is an EXTREMELY big security risk. Take
the time to figure out how to do it correctly.
Can I write useful Perl programs on the command line?
Yes. Read perlrun for more information. Some examples follow. (These assume standard Unix shell quoting rules.)
# sum first and last fields
perl -lane 'print $F[0] + $F[-1]' *
# identify text files
perl -le 'for(@ARGV) {print if -f && -T _}' *
# remove (most) comments from C program
perl -0777 -pe 's{/\*.*?\*/}{}gs' foo.c
# make file a month younger than today, defeating reaper daemons
perl -e '$X=24*60*60; utime(time(),time() + 30 * $X,@ARGV)' *
# find first unused uid
perl -le '$i++ while getpwuid($i); print $i'
# display reasonable manpath
echo $PATH | perl -nl -072 -e '
s![^/+]*$!man!&&-d&&!$s{$_}++&&push@m,$_;END{print"@m"}'
OK, the last one was actually an Obfuscated Perl Contest entry. :-)
Why don't Perl one-liners work on my DOS/Mac/VMS system?
The problem is usually that the command interpreters on those systems have rather different ideas about quoting
than the Unix shells under which the one-liners were created. On some systems, you may have to change singlequotes to double ones, which you must NOT do on Unix or Plan9 systems. You might also have to change a single
% to a %%.
For example:
# Unix
perl -e 'print "Hello world\n"'
# DOS, etc.
perl -e "print \"Hello world\n\""
# Mac
print "Hello world\n"
(then Run "Myscript" or Shift-Command-R)
# VMS
perl -e "print ""Hello world\n"""
The problem is that none of these examples are reliable: they depend on the command interpreter. Under Unix, the
first two often work. Under DOS, it's entirely possible that neither works. If 4DOS was the command shell, you'd

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probably have better luck like this:
perl -e "print <Ctrl-x>"Hello world\n<Ctrl-x>""
Under the Mac, it depends which environment you are using. The MacPerl shell, or MPW, is much like Unix shells in its support for several quoting variants, except that it makes free use of the Mac's non-ASCII characters as control characters.
Using qq(), q(), and qx(), instead of "double quotes", 'single quotes', and `backticks', may make one-liners easier to write.
There is no general solution to all of this. It is a mess, pure and simple. Sucks to be away from Unix, huh? :-)
[Some of this answer was contributed by Kenneth Albanowski.]
Where can I learn about CGI or Web programming in Perl?
For modules, get the CGI or LWP modules from CPAN. For textbooks, see the two especially dedicated to web stuff in the question on books. For problems and questions related to the web, like ``Why do I get 500 Errors'' or ``Why doesn't it run from the browser right when it runs fine on the command line'', see these sources:
WWW Security FAQ
http://www.w3.org/Security/Faq/
Web FAQ
http://www.boutell.com/faq/
CGI FAQ
http://www.webthing.com/tutorials/cgifaq.html
HTTP Spec
http://www.w3.org/pub/WWW/Protocols/HTTP/
HTML Spec
http://www.w3.org/TR/REC-html40/
http://www.w3.org/pub/WWW/MarkUp/
CGI Spec
http://www.w3.org/CGI/
CGI Security FAQ
http://www.go2net.com/people/paulp/cgi-security/safe-cgi.txt
Where can I learn about object-oriented Perl programming?
A good place to start is perltoot, and you can use perlobj, perlboot, and perlbot for reference. Perltoot didn't come out until the 5.004 release; you can get a copy (in pod, html, or postscript) from http://www.perl.com/CPAN/doc/FMTEYEWTK/.
Where can I learn about linking C with Perl? [h2xs, xsubpp]
If you want to call C from Perl, start with perlxstut, moving on to perlxs, xsubpp, and perlguts. If you want to call Perl from C, then read perlembed, perlcall, and perlguts. Don't forget that you can learn a lot from looking at how the authors of existing extension modules wrote their code and solved their problems.
I've read perlembed, perlguts, etc., but I can't embed perl in my C program; what am I doing wrong?
Download the ExtUtils::Embed kit from CPAN and run `make test'. If the tests pass, read the pods again and again and again. If they fail, see perlbug and send a bug report with the output of make test TEST_VERBOSE=1 along with perl -V.
When I tried to run my script, I got this message. What does it mean?
A complete list of Perl's error messages and warnings with explanatory text can be found in perldiag. You can also use the splain program (distributed with Perl) to explain the error messages:
perl program 2>diag.out
splain [-v] [-p] diag.out
or change your program to explain the messages for you:
use diagnostics; or
use diagnostics -verbose;

What's MakeMaker?

This module (part of the standard Perl distribution) is designed to write a Makefile for an extension module from a
Makefile.PL. For more information, see ExtUtils::MakeMaker.

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* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-
archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/t/perlfaqo.txt
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=head1 NAME

Pod::Simple::SimpleTree -- parse Pod into a simple parse tree

=head1 SYNOPSIS

% cat ptest.pod

=head1 PIE

I like B<pie>!

% perl -MPod::Simple::SimpleTree -MData::Dumper -e \
 "print Dumper(Pod::Simple::SimpleTree->new->parse_file(shift)->root)" \ 
 ptest.pod

$VAR1 = [
 'Document',
 { 'start_line' => 1 },
 [ 
 'head1',
 { 'start_line' => 1 },
 'PIE'
 ],
 [ 
 'Para',
 { 'start_line' => 3 },
 'I like ',
 [ 
 'B',
]
=head1 DESCRIPTION

This class is of interest to people writing a Pod processor/formatter.

This class takes Pod and parses it, returning a parse tree made just
of arrayrefs, and hashrefs, and strings.

This is a subclass of L<Pod::Simple> and inherits all its methods.

This class is inspired by XML::Parser's "Tree" parsing-style, although
it doesn't use exactly the same LoL format.

=head1 METHODS

At the end of the parse, call C<< $parser->root >> to get the
tree's top node.

=head1 Tree Contents

Every element node in the parse tree is represented by an arrayref of
the form: C<[
[ I<elementname>, \%attributes, I<...subnodes...> ]].
See the example tree dump in the Synopsis, above.

Every text node in the tree is represented by a simple (non-ref)
string scalar. So you can test C<ref($node)> to see whether you have
an element node or just a text node.

The top node in the tree is C<[
[ 'Document', \%attributes,
I<...subnodes...> ]]>
Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

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=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over
=item * Allison Randal C<allison@perl.org>
=item * Hans Dieter Pearcey C<hdp@cpan.org>
=item * David E. Wheeler C<dwheeler@cpan.org>
=back

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/SimpleTree.pm

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---
abstract: 'framework for parsing Pod'
author:
- 'Allison Randal <allison@perl.org>'
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.0401, CPAN::Meta::Converter version 2.150005'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Pod-Simple
no_index:
directory:
  - t
  - inc
recommends:
  Encode: '2.78'
requires:
  Carp: '0'
  Config: '0'
  Cwd: '0'
  File::Basename: '0'
  File::Find: '0'
  File::Spec: '0'
  Pod::Escapes: '1.04'
  Symbol: '0'
  Test: '1.25'
  Test::More: '0'
  Text::Wrap: '98.112902'
  integer: '0'
  overload: '0'
  strict: '0'
resources:
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/META.yml
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=head1 NAME
Pod::Simple::Debug -- put Pod::Simple into trace/debug mode

=head1 SYNOPSIS

use Pod::Simple::Debug (5);  # or some integer

Or:

my $debuglevel;
use Pod::Simple::Debug ($debuglevel, 0);
...some stuff that uses Pod::Simple to do stuff, but which
you don't want debug output from...

$debug_level = 4;
...some stuff that uses Pod::Simple to do stuff, but which
you DO want debug output from...

$debug_level = 0;

=head1 DESCRIPTION

This is an internal module for controlling the debug level (a.k.a. trace
level) of Pod::Simple. This is of interest only to Pod::Simple
developers.

=head1 CAVEATS

Note that you should load this module I<before> loading Pod::Simple (or
any Pod::Simple-based class). If you try loading Pod::Simple::Debug
after &Pod::Simple::DEBUG is already defined, Pod::Simple::Debug will
throw a fatal error to the effect that
"It's too late to call Pod::Simple::Debug".
Note that the `use Pod::Simple::Debug ($x, I<somenum>)` mode will make Pod::Simple (et al) run rather slower, since &Pod::Simple::DEBUG won't be a constant sub anymore, and so Pod::Simple (et al) won't compile with constant-folding.

=head1 GUTS

Doing this:

use Pod::Simple::Debug (5);  # or some integer

is basically equivalent to:

BEGIN { sub Pod::Simple::DEBUG () { 5 } }  # or some integer
use Pod::Simple ();

And this:

use Pod::Simple::Debug ($debug_level,0);  # or some integer

is basically equivalent to this:

my $debug_level;
BEGIN { $debug_level = 0 }
BEGIN { sub Pod::Simple::DEBUG () { $debug_level } }
use Pod::Simple ();

=head1 SEE ALSO

L<Pod::Simple>


=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

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=back

=cut

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=head1 NAME

Pod::Simple::Checker -- check the Pod syntax of a document

=head1 SYNOPSIS

perl -MPod::Simple::Checker -e \
"exit Pod::Simple::Checker->filter(shift)->any_errata_seen" \
thingy.pod

=head1 DESCRIPTION
This class is for checking the syntactic validity of Pod. It works by basically acting like a simple-minded version of L<Pod::Simple::Text> that formats only the "Pod Errors" section (if Pod::Simple even generates one for the given document).

This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Text>, L<Pod::Checker>

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

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1.944 e2fsprogs 1.45.6-1.el8
1.944.1 Available under license:

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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Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

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

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

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

image:$(BSD_LIB)

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

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

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)

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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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Gadi Oxman, August 1995

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

- trivial database library - private includes
-
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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Theodore Ts'o
23-June-2007

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

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 *
*/

package com.sun.syndication.feed.synd;

import com.sun.syndication.feed.impl.ObjectBean;
import com.sun.syndication.feed.impl.CopyFromHelper;
import com.sun.syndication.feed.WireFeed;
import com.sun.syndication.feed.module.*;
import com.sun.syndication.feed.module.impl.ModuleUtils;
import com.sun.syndication.feed.synd.impl.Converters;
import com.sun.syndication.feed.synd.impl.URINormalizer;

import java.util.*;
import java.io.Serializable;

/**
 * Bean for all types of feeds.
* <p>
* It handles all RSS versions and Atom 0.3, it normalizes all info, it may lose information.
* <p>
* @author Alejandro Abdelnur
*
*/

public class SyndFeedImpl implements Serializable, SyndFeed {

    private ObjectBean _objBean;

    private String _encoding;
    private String _uri;
    private SyndContent _title;
    private SyndContent _description;
    private String _feedType;
    private String _link;
    private List _links;
    private SyndImage _image;
    private List _entries;
    private List _modules;
    private List _authors;
    private List _contributors;
    private List _foreignMarkup;

    private static final Converters CONVERTERS = new Converters();

    private static final Set IGNORE_PROPERTIES = new HashSet();

    /**
     * Unmodifiable Set containing the convenience properties of this class.
     * <p>
     * Convenience properties are mapped to Modules, for cloning the convenience properties
     * can be ignored as the will be copied as part of the module cloning.
     */

    public static final Set CONVENIENCE_PROPERTIES = Collections.unmodifiableSet(IGNORE_PROPERTIES);

    static {
        IGNORE_PROPERTIES.add("publishedDate");
        IGNORE_PROPERTIES.add("author");
        IGNORE_PROPERTIES.add("copyright");
        IGNORE_PROPERTIES.add("categories");
        IGNORE_PROPERTIES.add("language");
    }

    /**
     * Returns the real feed types the SyndFeedImpl supports when converting from and to.
     */
/* @return the real feed type supported. */

public List getSupportedFeedTypes() {
    return CONVERTERS.getSupportedFeedTypes();
}

/**
 * For implementations extending SyndFeedImpl to be able to use the ObjectBean functionality
 * with extended interfaces.
 * <p>
 * @param beanClass
 * @param convenienceProperties set containing the convenience properties of the SyndEntryImpl
 * (the are ignored during cloning, check CloneableBean for details).
 * <p>
 */

protected SyndFeedImpl(Class beanClass, Set convenienceProperties) {
    _objBean = new ObjectBean(beanClass, this, convenienceProperties);
}

/**
 * Default constructor. All properties are set to null.
 * <p>
 */

public SyndFeedImpl() {
    this(null);
}

/**
 * Creates a SyndFeedImpl and populates all its properties out of the
 * given RSS Channel or Atom Feed properties.
 * <p>
 * @param feed the RSS Channel or the Atom Feed to populate the properties from.
 * <p>
 */

public SyndFeedImpl(WireFeed feed) {
    this(SyndFeed.class, IGNORE_PROPERTIES);
    if (feed != null) {
        _feedType = feed.getFeedType();
        Converter converter = CONVERTERS.getConverter(_feedType);
        if (converter == null) {
            throw new IllegalArgumentException("Invalid feed type "+_feedType);
        }
        converter.copyInto(feed, this);
    }
}
* Creates a deep 'bean' clone of the object.
* <p>
* @return a clone of the object.
* @throws CloneNotSupportedException thrown if an element of the object cannot be cloned.
* 
* */
public Object clone() throws CloneNotSupportedException {
    return _objBean.clone();
}

/**
* Indicates whether some other object is "equal to" this one as defined by the Object equals() method.
* <p>
* @param other the reference object with which to compare.
* @return <b>true</b> if 'this' object is equal to the 'other' object.
* 
* */
public boolean equals(Object other) {
    // can't use foreign markup in equals, due to JDOM equals impl
    Object fm = getForeignMarkup();
    setForeignMarkup(((SyndFeedImpl)other).getForeignMarkup());
    boolean ret = _objBean.equals(other);
    // restore foreign markup
    setForeignMarkup(fm);
    return ret;
}

/**
* Returns a hashcode value for the object.
* <p>
* It follows the contract defined by the Object hashCode() method.
* <p>
* @return the hashcode of the bean object.
* 
* */
public int hashCode() {
    return _objBean.hashCode();
}

/**
* Returns the String representation for the object.
* <p>
* @return String representation for the object.
* 
* */
public String toString() {
    return _objBean.toString();
}
/**
* Creates a real feed containing the information of the SyndFeedImpl.
* <p>
* The feed type of the created WireFeed is taken from the SyndFeedImpl feedType property.
* <p>
* @return the real feed.
*
*/
public WireFeed createWireFeed() {
return createWireFeed(_feedType);
}
/**
* Creates a real feed containing the information of the SyndFeedImpl.
* <p>
* @param feedType the feed type for the WireFeed to be created.
* @return the real feed.
*
*/
public WireFeed createWireFeed(String feedType) {
if (feedType==null) {
throw new IllegalArgumentException("Feed type cannot be null");
}
Converter converter = CONVERTERS.getConverter(feedType);
if (converter==null) {
throw new IllegalArgumentException("Invalid feed type ["+feedType+"]");
}
return converter.createRealFeed(this);
}
/**
* Returns the wire feed type the feed had/will-have when coverted from/to a WireFeed.
* <p>
* @return the feed type, <b>null</b> if none.
*
*/
public String getFeedType() {
return _feedType;
}
/**
* Sets the wire feed type the feed will-have when coverted to a WireFeed.
* <p>
* @param feedType the feed type to set, <b>null</b> if none.
*
*/
public void setFeedType(String feedType) {

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_feedType = feedType;
}

/**
 * Returns the charset encoding of a the feed. This is not set by Rome parsers.
 * @return the charset encoding of the feed.
 */
public String getEncoding() {
    return _encoding;
}

/**
 * Sets the charset encoding of a the feed. This is not set by Rome parsers.
 * @param encoding the charset encoding of the feed.
 */
public void setEncoding(String encoding) {
    _encoding = encoding;
}

/**
 * Returns the feed URI.
 * @return the feed URI, null if none.
 */
public String getUri() {
return _uri;
}

/**
 * Sets the feed URI.
 *
 * How the feed URI maps to a concrete feed type (RSS or Atom) depends on
 * the concrete feed type. This is explained in detail in Rome documentation,
 * <a href="http://wiki.java.net/bin/edit/Javawsxml/Rome04URIMapping">Feed and entry URI mapping</a>.
 *
 * Note: The URI is the unique identifier, in the RSS 2.0/atom case this is
 * the GUID, for RSS 1.0 this is the URI attribute of the item. The Link
 * is the URL that the item is accessible under, the URI is the
 * permanent identifier which the aggregator should use to reference
 * this item. Often the URI will use some standardized identifier scheme
 * such as DOI's so that items can be identified even if they appear in
 * multiple feeds with different "links" (they might be on different
 * hosting platforms but be the same item). Also, though rare, there
 * could be multiple items with the same link but a different URI and
 * associated metadata which need to be treated as distinct entities.
 * In the RSS 1.0 case the URI must be a valid RDF URI reference.
 *
 * @param uri the feed URI to set, <b>null</b> if none.
 *
 */
public void setUri(String uri) {
    _uri = URINormalizer.normalize(uri);
}

/**
 * Returns the feed title.
 *
 * @return the feed title, <b>null</b> if none.
 *
 */
public String getTitle() {
    if (_title != null) return _title.getValue();
    return null;
}

/**
 * Sets the feed title.
 *
 * @param title the feed title to set, <b>null</b> if none.
 *
 */
public void setTitle(String title) {
    if (_title == null) _title = new SyndContentImpl();
    if (_title != null) _title.setValue(title);
}
```java
private SyndContent _title;

/**
 * Returns the feed title as a text construct.
 * @return the feed title, <b>null</b> if none.
 */
public SyndContent getTitleEx() {
    return _title;
}

/**
 * Sets the feed title as a text construct.
 * @param title the feed title to set, <b>null</b> if none.
 */
public void setTitleEx(SyndContent title) {
    _title = title;
}

/**
 * Returns the feed link.
 * Note: The URI is the unique identifier, in the RSS 2.0/atom case this is
 * the GUID, for RSS 1.0 this is the URI attribute of the item. The Link
 * is the URL that the item is accessible under, the URI is the
 * permanent identifier which the aggregator should use to reference
 * this item. Often the URI will use some standardized identifier scheme
 * such as DOI's so that items can be identified even if they appear in
 * multiple feeds with different "links" (they might be on different
 * hosting platforms but be the same item). Also, though rare, there
 * could be multiple items with the same link but a different URI and
 * associated metadata which need to be treated as distinct entities.
 * In the RSS 1.0 case the URI must be a valid RDF URI reference.
 * @return the feed link, <b>null</b> if none.
 */
public String getLink() {
    return _link;
}
```

* Note: The URI is the unique identifier, in the RSS 2.0/atom case this is
* the GUID, for RSS 1.0 this is the URI attribute of the item. The Link
* is the URL that the item is accessible under, the URI is the
* permanent identifier which the aggregator should use to reference
* this item. Often the URI will use some standardized identifier scheme
* such as DOI's so that items can be identified even if they appear in
* multiple feeds with different "links" (they might be on different
* hosting platforms but be the same item). Also, though rare, there
* could be multiple items with the same link but a different URI and
* associated metadata which need to be treated as distinct entities.
* In the RSS 1.0 case the URI must be a valid RDF URI reference.
* <p>
* @param link the feed link to set, <b>null</b> if none.
* *
* */
public void setLink(String link) {
    _link = link;
}

/**
* Returns the feed description.
* <p>
* @return the feed description, <b>null</b> if none.
* *
* */
public String getDescription() {
    if (_description != null) return _description.getValue();
    return null;
}

/**
* Sets the feed description.
* <p>
* @param description the feed description to set, <b>null</b> if none.
* *
* */
public void setDescription(String description) {
    if (_description == null) _description = new SyndContentImpl();
    _description.setValue(description);
}

/**
* Returns the feed description as a text construct.
* <p>
* @return the feed description, <b>null</b> if none.
* *
* */
public SyndContent getDescriptionEx() {

return _description;
}

/**
 * Sets the feed description as a text construct.
 * <p>
 * @param description the feed description to set, <b>null</b> if none.
 * *
 * /
 *public void setDescriptionEx(SyndContent description) {
    _description = description;
}

/**
 * Returns the feed published date.
 * <p>
 * This method is a convenience method, it maps to the Dublin Core module date.
 * <p>
 * @return the feed published date, <b>null</b> if none.
 * *
 * /
 *public Date getPublishedDate() {
    return getDCModule().getDate();
}

/**
 * Sets the feed published date.
 * <p>
 * This method is a convenience method, it maps to the Dublin Core module date.
 * <p>
 * @param publishedDate the feed published date to set, <b>null</b> if none.
 * *
 * /
 *public void setPublishedDate(Date publishedDate) {
    getDCModule().setDate(publishedDate);
}

/**
 * Returns the feed copyright.
 * <p>
 * This method is a convenience method, it maps to the Dublin Core module rights.
 * <p>
 * @return the feed copyright, <b>null</b> if none.
 * *
 * /
 *public String getCopyright() {
    return getDCModule().getRights();
}
/**
 * Sets the feed copyright.
 * \<p\>
 * This method is a convenience method, it maps to the Dublin Core module rights.
 * \<p\>
 * @param copyright the feed copyright to set, \(null\) if none.
 * *
 * /
 * public void setCopyright(String copyright) {
 *     getDCModule().setRights(copyright);
 * }
 */

/**
 * Returns the feed image.
 * \<p\>
 * @return the feed image, \(null\) if none.
 * *
 * /
 * public SyndImage getImage() {
 *     return _image;
 * }
 */

/**
 * Sets the feed image.
 * \<p\>
 * @param image the feed image to set, \(null\) if none.
 * *
 * /
 * public void setImage(SyndImage image) {
 *     _image = image;
 * }
 */

/**
 * Returns the feed categories.
 * \<p\>
 * This method is a convenience method, it maps to the Dublin Core module subjects.
 * \<p\>
 * @return a list of SyndCategoryImpl elements with the feed categories,
 *         an empty list if none.
 * *
 * /
 * public List getCategories() {
 *     return new SyndCategoryListFacade(getDCModule().getSubjects());
 * }
 */

/**
 * Sets the feed categories.
* <p>
* This method is a convenience method, it maps to the Dublin Core module subjects.
* <p>
* @param categories the list of SyndCategoryImpl elements with the feed categories to set,
* an empty list or <b>null</b> if none.
* *
*
public void setCategories(List categories) {
    getDCModule().setSubjects(SyndCategoryListFacade.convertElementsSyndCategoryToSubject(categories));
}

/**
 * Returns the feed entries.
 * <p>
 * @return a list of SyndEntryImpl elements with the feed entries,
 * an empty list if none.
 * *
 */
public List getEntries() {
    return (_entries==null) ? (_entries=new ArrayList()) : _entries;
}

/**
 * Sets the feed entries.
 * <p>
 * @param entries the list of SyndEntryImpl elements with the feed entries to set,
 * an empty list or <b>null</b> if none.
 * *
 */
public void setEntries(List entries) {
    _entries = entries;
}

/**
 * Returns the feed language.
 * <p>
 * This method is a convenience method, it maps to the Dublin Core module language.
 * <p>
 * @return the feed language, <b>null</b> if none.
 * *
 */
public String getLanguage() {
    return getDCModule().getLanguage();
}

/**
 * Sets the feed language.
 * <p>
* This method is a convenience method, it maps to the Dublin Core module language.
* <p>
* @param language the feed language to set, <b>null</b> if none.
* *
* /
public void setLanguage(String language) {
    getDCModule().setLanguage(language);
}

/**
* Returns the feed modules.
* <p>
* @return a list of ModuleImpl elements with the feed modules,
*         an empty list if none.
* *
* /
public List getModules() {
    if  (_modules==null) {
        _modules=new ArrayList();
    }
    if (ModuleUtils.getModule(_modules,DCModule.URI)==null) {
        _modules.add(new DCModuleImpl());
    }
    return _modules;
}

/**
* Sets the feed modules.
* <p>
* @param modules the list of ModuleImpl elements with the feed modules to set,
*         an empty list or <b>null</b> if none.
* *
* /
public void setModules(List modules) {
    _modules = modules;
}

/**
* Returns the module identified by a given URI.
* <p>
* @param uri the URI of the ModuleImpl.
* @return The module with the given URI, <b>null</b> if none.
* *
* /
public Module getModule(String uri) {
    return ModuleUtils.getModule(getModules(),uri);
}
private DCModule getDCModule() {
    return (DCModule) getModule(DCModule.URI);
}

public Class getInterface() {
    return SyndFeed.class;
}

public void copyFrom(Object obj) {
    COPY_FROM_HELPER.copy(this, obj);
}

// TODO We need to find out how to refactor this one in a nice reusable way.

private static final CopyFromHelper COPY_FROM_HELPER;

static {
    Map basePropInterfaceMap = new HashMap();
    basePropInterfaceMap.put("feedType", String.class);
    basePropInterfaceMap.put("encoding", String.class);
    basePropInterfaceMap.put("uri", String.class);
    basePropInterfaceMap.put("title", String.class);
    basePropInterfaceMap.put("link", String.class);
    basePropInterfaceMap.put("description", String.class);
    basePropInterfaceMap.put("image", SyndImage.class);
    basePropInterfaceMap.put("entries", SyndEntry.class);
    basePropInterfaceMap.put("modules", Module.class);

    Map basePropClassImplMap = new HashMap();
    basePropClassImplMap.put(SyndEntry.class, SyndEntryImpl.class);
    basePropClassImplMap.put(SyndImage.class, SyndImageImpl.class);
    basePropClassImplMap.put(DCModule.class, DCModuleImpl.class);
    basePropClassImplMap.put(SyModule.class, SyModuleImpl.class);

    COPY_FROM_HELPER = new CopyFromHelper(SyndFeed.class, basePropInterfaceMap, basePropClassImplMap);
}

/**
 * Returns the links
 * @return Returns the links.
 */
/**
 * Get the links.
 * <p>
 * @return The links.
 */
public List getLinks() {
    return _links;
}

/**
 * Set the links.
 * <p>
 * @param links The links to set.
 */
public void setLinks(List links) {
    _links = links;
}

/**
 * Get the authors.
 * <p>
 * @return The authors.
 */
public List getAuthors() {
    return _authors;
}

/**
 * Set the authors.
 * <p>
 * @param authors The authors to set.
 */
public void setAuthors(List authors) {
    this._authors = authors;
}

/**
 * Get the feed author.
 * <p>
 * This method is a convenience method, it maps to the Dublin Core module creator.
 * <p>
 * @return The feed author, null if none.
 */
public String getAuthor() {
    return getDCModule().getCreator();
}

/**
 * Set the feed author.
 * <p>
 * This method is a convenience method, it maps to the Dublin Core module creator.
 * <p>
 * @param author The feed author to set, null if none.
 */
public void setAuthor(String author) {
    getDCModule().setCreator(author);
}

/**
 * Get the contributors.
 * <p>
 * @return The contributors.
 */
public List getContributors() {
    return _contributors;
}
public void setContributors(List contributors) {
    this._contributors = contributors;
}

/**
 * Returns foreign markup found at channel level.
 * <p>
 * @return Opaque object to discourage use
 *
 */
public Object getForeignMarkup() {
    return (_foreignMarkup==null) ? (_foreignMarkup=new ArrayList()) : _foreignMarkup;
}

/**
 * Sets foreign markup found at channel level.
 * <p>
 * @param foreignMarkup Opaque object to discourage use
 *
 */
public void setForeignMarkup(Object foreignMarkup) {
    _foreignMarkup = (List)foreignMarkup;
}

/*
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 *
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 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 * 
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 *
 */
package com.sun.syndication.feed.synd;

import com.sun.syndication.feed.impl.ObjectBean;
import com.sun.syndication.feed.module.*;
import com.sun.syndication.feed.module.impl.ModuleUtils;
import com.sun.syndication.feed.synd.impl.URINormalizer;
import com.sun.syndication.feed.impl.CopyFromHelper;

import java.util.*;
import java.io.Serializable;

/**
 * Bean for entries of SyndFeedImpl feeds.
 * <p>
 * @author Alejandro Abdelnur
 */

public class SyndEntryImpl implements Serializable, SyndEntry {
    private ObjectBean _objBean;
    private String _uri;
    private String _link;
    private Date _updatedDate;
    private SyndContent _title;
    private SyndContent _description;
    private List _links;
    private List _contents; // deprecated by Atom 1.0
    private List _modules;
    private List _enclosures;
    private List _authors;
    private List _contributors;
    private List _foreignMarkup;

    // ISSUE: some converters assume this is never null
    private List _categories = new ArrayList();

    private static final Set IGNORE_PROPERTIES = new HashSet();

    /**
     * Unmodifiable Set containing the convenience properties of this class.
     * <p>
     * Convenience properties are mapped to Modules, for cloning the convenience properties
     * can be ignored as the will be copied as part of the module cloning.
     */
    public static final Set CONVENIENCE_PROPERTIES = Collections.unmodifiableSet(IGNORE_PROPERTIES);

    static {
        IGNORE_PROPERTIES.add("publishedDate");
        IGNORE_PROPERTIES.add("author");
    }

    /**
     * For implementations extending SyndEntryImpl to be able to use the ObjectBean functionality
     * with extended interfaces.
     */

protected SyndEntryImpl(Class beanClass, Set convenienceProperties) {
    _objBean = new ObjectBean(beanClass, this, convenienceProperties);
}

/**
 * Default constructor. All properties are set to <b>null</b>.
 * <p>
 * public SyndEntryImpl() {
 *    this(SyndEntry.class, IGNORE_PROPERTIES);
 * }

/**
 * Creates a deep 'bean' clone of the object.
 * <p>
 * @return a clone of the object.
 * @throws CloneNotSupportedException thrown if an element of the object cannot be cloned.
 * <p>
 * public Object clone() throws CloneNotSupportedException {
 *    return _objBean.clone();
 * }

/**
 * Indicates whether some other object is "equal to" this one as defined by the Object equals() method.
 * <p>
 * @param other the reference object with which to compare.
 * @return <b>true</b> if 'this' object is equal to the 'other' object.
 * <p>
 * public boolean equals(Object other) {
 *    // can't use foreign markup in equals, due to JDOM equals impl
 *    Object fm = getForeignMarkup();
 *    setForeignMarkup(((SyndEntryImpl)other).getForeignMarkup());
 *    boolean ret = _objBean.equals(other);
 *    // restore foreign markup
 *    setForeignMarkup(fm);
 *    return ret;
 * }

/**
 * Returns a hashcode value for the object.
* <p>
* It follows the contract defined by the Object hashCode() method.
* <p>
* @return the hashcode of the bean object.
* 
*/

```java
public int hashCode() {
    return _objBean.hashCode();
}
```

/**
 * Returns the String representation for the object.
 * <p>
 * @return String representation for the object.
 * 
*/

```java
public String toString() {
    return _objBean.toString();
}
```

/**
 * Returns the entry URI.
 * <p>
 * How the entry URI maps to a concrete feed type (RSS or Atom) depends on
 * the concrete feed type. This is explained in detail in Rome documentation,
 * <a href="http://wiki.java.net/bin/edit/Javawsxml/Rome04URIMapping">Feed and entry URI mapping</a>.
 * <p>
 * The returned URI is a normalized URI as specified in RFC 2396bis.
 * <p>
 * @return the entry URI, <b>null</b> if none.
 * 
*/

```java
public String getUri() {
    return _uri;
}
```

/**
 * Sets the entry URI.
 * <p>
 * How the entry URI maps to a concrete feed type (RSS or Atom) depends on
 * the concrete feed type. This is explained in detail in Rome documentation,
 * <a href="http://wiki.java.net/bin/edit/Javawsxml/Rome04URIMapping">Feed and entry URI mapping</a>.
 * <p>
 * @param uri the entry URI to set, <b>null</b> if none.
 * 
*/

```java
public void setUri(String uri) {
```
_uri = URINormalizer.normalize(uri);
}

/**
 * Returns the entry title.
 * <p>
 * @return the entry title, <b>null</b> if none.
 * *
 */
public String getTitle() {
    if (_title != null) return _title.getValue();
    return null;
}

/**
 * Sets the entry title.
 * <p>
 * @param title the entry title to set, <b>null</b> if none.
 * *
 */
public void setTitle(String title) {
    if (_title == null) _title = new SyndContentImpl();
    _title.setValue(title);
}

/**
 * Returns the entry title as a text construct.
 * <p>
 * @return the entry title, <b>null</b> if none.
 * *
 */
public SyndContent getTitleEx() {
    return _title;
}

/**
 * Sets the entry title as a text construct.
 * <p>
 * @param title the entry title to set, <b>null</b> if none.
 * *
 */
public void setTitleEx(SyndContent title) {
    _title = title;
}

/**
 * Returns the entry link.
 * <p>
* @return the entry link, <b>null</b> if none.
* *
public String getLink() {
    return _link;
}

/**
* Sets the entry link.
* <p>
* @param link the entry link to set, <b>null</b> if none.
* *
*/
public void setLink(String link) {
    _link = link;
}

/**
* Returns the entry description.
* <p>
* @return the entry description, <b>null</b> if none.
* *
*/
public SyndContent getDescription() {
    return _description;
}

/**
* Sets the entry description.
* <p>
* @param description the entry description to set, <b>null</b> if none.
* *
*/
public void setDescription(SyndContent description) {
    _description = description;
}

/**
* Returns the entry contents.
* <p>
* @return a list of SyndContentImpl elements with the entry contents,
*         an empty list if none.
* *
*/
public List getContents() {
    return (_contents==null) ? (_contents=new ArrayList()) : _contents;
}
/**
 * Sets the entry contents.
 * @param contents the list of SyndContentImpl elements with the entry contents to set,
 *        an empty list or null if none.
 */
public void setContents(List contents) {
    _contents = contents;
}

/**
 * Returns the entry enclosures.
 * @return a list of SyndEnclosure elements with the entry enclosures,
 *         an empty list if none.
 */
public List getEnclosures() {
    return (_enclosures==null) ? (_enclosures=new ArrayList()) : _enclosures;
}

/**
 * Sets the entry enclosures.
 * @param enclosures the list of SyndEnclosure elements with the entry enclosures to set,
 *        an empty list or null if none.
 */
public void setEnclosures(List enclosures) {
    _enclosures = enclosures;
}

/**
 * Returns the entry published date.
 * This method is a convenience method, it maps to the Dublin Core module date.
 * @return the entry published date, null if none.
 */
public Date getPublishedDate() {
    return getDCModule().getDate();
}

/**
 * Sets the entry published date.
 */
* <p>
* This method is a convenience method, it maps to the Dublin Core module date.
* <p>
* @param publishedDate the entry published date to set, <b>null</b> if none.
* *
* /public void setPublishedDate(Date publishedDate) {
  getDCModule().setDate(publishedDate);
}

/**
* Returns the entry categories.
* <p>
* @return a list of SyndCategoryImpl elements with the entry categories,
*        an empty list if none.
* *
* /
public List getCategories() {
  return _categories;
}

/**
* Sets the entry categories.
* <p>
* This method is a convenience method, it maps to the Dublin Core module subjects.
* <p>
* @param categories the list of SyndCategoryImpl elements with the entry categories to set,
*        an empty list or <b>null</b> if none.
* *
* /
public void setCategories(List categories) {
  _categories = categories;
}

/**
* Returns the entry modules.
* <p>
* @return a list of ModuleImpl elements with the entry modules,
*        an empty list if none.
* *
* /
public List getModules() {
  if (_modules==null) {
    _modules=new ArrayList();
  }
  if (ModuleUtils.getModule(_modules,DCModule.URI)==null) {
    _modules.add(new DCModuleImpl());
  }
}
return _modules;
}

/**
 * Sets the entry modules.
 * <p>
 * @param modules the list of ModuleImpl elements with the entry modules to set,
 * an empty list or <b>null</b> if none.
 * 
 */
public void setModules(List modules) {
    _modules = modules;
}

/**
 * Returns the module identified by a given URI.
 * <p>
 * @param uri the URI of the ModuleImpl.
 * @return The module with the given URI, <b>null</b> if none.
 * 
 */
public Module getModule(String uri) {
    return ModuleUtils.getModule(getModules(),uri);
}

/**
 * Returns the Dublin Core module of the feed.
 * @return the DC module, it's never <b>null</b>
 * 
 */
private DCModule getDCModule() {
    return (DCModule) getModule(DCModule.URI);
}

public Class getInterface() {
    return SyndEntry.class;
}

public void copyFrom(Object obj) {
    COPY_FROM_HELPER.copy(this,obj);
}

private static final CopyFromHelper COPY_FROM_HELPER;

static {
    Map basePropInterfaceMap = new HashMap();
    basePropInterfaceMap.put("uri",String.class);
    basePropInterfaceMap.put("title",String.class);
    basePropInterfaceMap.put("link",String.class);
}
basePropInterfaceMap.put("uri", String.class);
basePropInterfaceMap.put("description", SyndContent.class);
basePropInterfaceMap.put("contents", SyndContent.class);
basePropInterfaceMap.put("enclosures", SyndEnclosure.class);
basePropInterfaceMap.put("modules", Module.class);

Map basePropClassImplMap = new HashMap();
basePropClassImplMap.put(SyndContent.class, SyndContentImpl.class);
basePropClassImplMap.put(SyndEnclosure.class, SyndEnclosureImpl.class);
basePropClassImplMap.put(DCModule.class, DCModuleImpl.class);
basePropClassImplMap.put(SyModule.class, SyModuleImpl.class);

COPY_FROM_HELPER = new CopyFromHelper(SyndEntry.class, basePropInterfaceMap, basePropClassImplMap);
}

/**
 * Returns the links
 * <p>
 * @return Returns the links.
 */
public List getLinks() {
    return (_links==null) ? (_links=new ArrayList()) : _links;
}

 /**
 * Set the links
 * <p>
 * @param links The links to set.
 */
public void setLinks(List links) {
    _links = links;
}

/**
 * Returns the updatedDate
 * <p>
 * @return Returns the updatedDate.
 */
public Date getUpdatedDate() {
    return _updatedDate;
}

/**
 * Set the updatedDate
 * <p>
 * @param updatedDate The updatedDate to set.
 */
public void setUpdatedDate(Date updatedDate) {
    _updatedDate = updatedDate;
}

public List getAuthors() {
    return _authors;
}

/* (non-Javadoc)
 * @see com.sun.syndication.feed.synd.SyndEntry#setAuthors(java.util.List)
 */
public void setAuthors(List authors) {
    _authors = authors;
}

/**
 * Returns the entry author.
 * <p>
 * This method is a convenience method, it maps to the Dublin Core module creator.
 * <p>
 * @return the entry author, <b>null</b> if none.
 * *
 */
public String getAuthor() {
    String author;

    // Start out looking for one or more authors in _authors. For non-Atom
    // feeds, _authors may actually be null.
    if ((_authors != null) && (_authors.size() > 0)) {
        author = ((SyndPerson)_authors.get(0)).getName();
    } else {
        author = getDCModule().getCreator();
    }

    if (author == null) {
        author = "";
    }

    return author;
}

/**
 * Sets the entry author.
 * <p>
 * This method is a convenience method, it maps to the Dublin Core module creator.
 * <p>
 * @param author the entry author to set, <b>null</b> if none.
 * *
 */
public void setAuthor(String author) {
    // Get the DCModule so that we can check to see if "creator" is already
    // set.
    DCModule dcModule = getDCModule();
    String currentValue = dcModule.getCreator();

    if ((currentValue == null) || (currentValue.length() == 0)) {
        getDCModule().setCreator(author);
    }
}

public List getContributors() {
    return _contributors;
}

/* (non-Javadoc)
 * @see com.sun.syndication.feed.synd.SyndEntry#setContributors(java.util.List)
 */
public void setContributors(List contributors) {
    _contributors = contributors;
}

/**
 * Returns foreign markup found at channel level.
 * <p>
 * @return list of JDOM nodes containing channel-level foreign markup,
 *         an empty list if none.
 * @
 *
 */
public Object getForeignMarkup() {
    return (_foreignMarkup==null) ? (_foreignMarkup=new ArrayList()) : _foreignMarkup;
}

/**
 * Sets foreign markup found at channel level.
 * <p>
 * @param foreignMarkup list of JDOM nodes containing channel-level foreign markup,
 *         an empty list if none.
 * @
 *
 */
public void setForeignMarkup(Object foreignMarkup) {
    _foreignMarkup = (List)foreignMarkup;
}

/*
 * Copyright 2004 Sun Microsystems, Inc.
 * 
 * Licensed under the Apache License, Version 2.0 (the "License");
package com.sun.syndication.feed.synd;

import com.sun.syndication.feed.impl.ObjectBean;
import java.io.Serializable;

/**
 * Represents a link or an enclosure.
 * <p>
 * @author Alejandro Abdelnur
 * @author Dave Johnson (updated for Atom 1.0)
 */
public class SyndLinkImpl implements Cloneable,Serializable, SyndLink {

    private ObjectBean _objBean;
    private String _href;
    private String _rel;
    private String _type;
    private String _hreflang;
    private String _title;
    private long   _length;

    /**
     * Default constructor. All properties are set to <b>null</b>.
     * <p>
     * 
     */
    public SyndLinkImpl() {
        _objBean = new ObjectBean(this.getClass(),this);
    }

    /**
     * Creates a deep 'bean' clone of the object.
     * <p>
     * @return a clone of the object.
     */
    }
* @throws CloneNotSupportedException thrown if an element of the object cannot be cloned.
*
public Object clone() throws CloneNotSupportedException {
    return _objBean.clone();
}

/**
* Indicates whether some other object is "equal to" this one as defined by the Object equals() method.
* <p>
* @param other the reference object with which to compare.
* @return <b>true</b> if 'this' object is equal to the 'other' object.
* 
*/
public boolean equals(Object other) {
    return _objBean.equals(other);
}

/**
* Returns a hashcode value for the object.
* <p>
* It follows the contract defined by the Object hashCode() method.
* <p>
* @return the hashcode of the bean object.
* 
*/
public int hashCode() {
    return _objBean.hashCode();
}

/**
* Returns the String representation for the object.
* <p>
* @return String representation for the object.
* 
*/
public String toString() {
    return _objBean.toString();
}

/**
* Returns the link rel.
* <p>
* @return the link rel, <b>null</b> if none.
* 
*/
public String getRel() {
    return _rel;
/**
 * Sets the link rel.
 * @param rel the link rel, <b>null</b> if none.
 * @/ 
 * @return the link rel, <b>null</b> if none.
 * */
 public void setRel(String rel) {
     //TODO add check, ask P@ about the check
     _rel = rel;
 }

/**
 * Returns the link type.
 * @return the link type, <b>null</b> if none.
 * */
 public String getType() {
     return _type;
 }

/**
 * Sets the link type.
 * @param type the link type, <b>null</b> if none.
 * */
 public void setType(String type) {
     _type = type;
 }

/**
 * Returns the link href.
 * @return the link href, <b>null</b> if none.
 * */
 public String getHref() {
     return _href;
 }

/**
 * Sets the link href.
 * @param href the link href, <b>null</b> if none.
 * */

public void setHref(String href) {
    _href = href;
}

/**
 * Returns the link title.
 * <p>
 * @return the link title, <b>null</b> if none.
 * *
 */
public String getTitle() {
    return _title;
}

/**
 * Sets the link title.
 * <p>
 * @param title the link title, <b>null</b> if none.
 * *
 */
public void setTitle(String title) {
    _title = title;
}

/**
 * Returns the hreflang
 * <p>
 * @return Returns the hreflang.
 * *
 */
public String getHreflang() {
    return _hreflang;
}

/**
 * Set the hreflang
 * <p>
 * @param hreflang The hreflang to set.
 * *
 */
public void setHreflang(String hreflang) {
    _hreflang = hreflang;
}

/**
 * Returns the length
 * <p>
 * @return Returns the length.
 * *
 */
public long getLength() {
    return _length;
}

/**
 * Set the length
 * <p>
 * @param length The length to set.
 */
public void setLength(long length) {
    _length = length;
}

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 *
 */
package com.sun.syndication.feed.synd;

import com.sun.syndication.feed.impl.ObjectBean;
import com.sun.syndication.feed.module.DCSubjectImpl;
import com.sun.syndication.feed.module.DCSubject;
import java.util.AbstractList;
import java.util.List;
import java.util.ArrayList;
import java.io.Serializable;

/**
 * Bean for categories of SyndFeedImpl feeds and entries.
 * <p>
 * @author Alejandro Abdelnur
 */
public class SyndCategoryImpl implements Serializable,SyndCategory {
    private ObjectBean _objBean;
}
private DCSubject _subject;

/**
 * For implementations extending SyndContentImpl to be able to use the ObjectBean functionality
 * with extended interfaces.
 * <p>
 * @param subject the DC subject to wrap.
 */
SyndCategoryImpl(DCSubject subject) {
    _objBean = new ObjectBean(SyndCategory.class,this);
    _subject = subject;
}

/**
 * Creates a deep 'bean' clone of the object.
 * <p>
 * @return a clone of the object.
 * @throws CloneNotSupportedException thrown if an element of the object cannot be cloned.
 */
public Object clone() throws CloneNotSupportedException {
    return _objBean.clone();
}

/**
 * Indicates whether some other object is "equal to" this one as defined by the Object equals() method.
 * <p>
 * @param other the reference object with which to compare.
 * @return <b>true</b> if 'this' object is equal to the 'other' object.
 */
public boolean equals(Object other) {
    return _objBean.equals(other);
}

/**
 * Returns a hashcode value for the object.
 * <p>
 * It follows the contract defined by the Object hashCode() method.
 * <p>
 * @return the hashcode of the bean object.
 */
public int hashCode() {
    return _objBean.hashCode();
}

/**
** Returns the String representation for the object.
** *
** @return String representation for the object.
** *
** /
public String toString() {
    return _objBean.toString();
}

/**
* Package private constructor, used by SyndCategoryListFacade.
* *
* @return the DC subject being wrapped.
* *
* /
DCSubject getSubject() {
    return _subject;
}

/**
* Default constructor. All properties are set to <b>null</b>.
* *
* *
* /
public SyndCategoryImpl() {
    this(new DCSubjectImpl());
}

/**
* Returns the category name.
* *
* @return the category name, <b>null</b> if none.
* *
* *
* /
public String getName() {
    return _subject.getValue();
}

/**
* Sets the category name.
* *
* @param name the category name to set, <b>null</b> if none.
* *
* *
* /
public void setName(String name) {
    _subject.setValue(name);
}
/**
 * Returns the category taxonomy URI.
 * @return the category taxonomy URI, <b>null</b> if none.
 */
public String getTaxonomyUri() {
    return _subject.getTaxonomyUri();
}

/**
 * Sets the category taxonomy URI.
 * @param taxonomyUri the category taxonomy URI to set, <b>null</b> if none.
 */
public void setTaxonomyUri(String taxonomyUri) {
    _subject.setTaxonomyUri(taxonomyUri);
}

/**
 * List implementation for SyndCategoryImpl elements. To be directly used by the SyndFeedImpl
 * and SyndEntryImpl classes only.
 * @param taxonomyUri the category taxonomy URI to set, <b>null</b> if none.
 * @return the category taxonomy URI, <b>null</b> if none.
 */
public String getTaxonomyUri() {
    return _subject.getTaxonomyUri();
}

public void setTaxonomyUri(String taxonomyUri) {
    _subject.setTaxonomyUri(taxonomyUri);
}

/**
 * List implementation for SyndCategoryImpl elements. To be directly used by the SyndFeedImpl
 * and SyndEntryImpl classes only.
 * It acts as a facade on top of the DCSubjectImpl elements of the underlying list
 * and remains in synch with it. It is possible to work on either list, the categories
 * one or the subjects one and they remain in synch.
 * This is necessary because the SyndFeedImpl categories are just a convenience to access
 * the DublinCore subjects.
 * All this mess to avoid making DCSubjectImpl implement SyndCategory (which it would be odd).
 * @author Alejandro Abdelnur
 */
class SyndCategoryListFacade extends AbstractList {
    private List _subjects;

    /**
     * Default constructor. Creates and empty list.
     */
    public SyndCategoryListFacade() {
        this(new ArrayList());
    }
/**
 * Creates a facade list of categories on top the given subject list.
 * <p>
 * @param subjects the list of subjects to create the facade.
 * *
 */
public SyndCategoryListFacade(List subjects) {
    _subjects = subjects;
}

/**
 * Gets the category by index.
 * <p>
 * @param index the index position to retrieve the category.
 * @return the SyndCategoryImpl in position index, <b>null</b> if none.
 * *
 */
public Object get(int index) {
    return new SyndCategoryImpl((DCSubject) _subjects.get(index));
}

/**
 * Returns the size of the list.
 * <p>
 * @return the size of the list.
 * *
 */
public int size() {
    return _subjects.size();
}

/**
 * Sets a category in an existing position in the list.
 * <p>
 * @param index position to set the category.
 * @param obj the SyndCategoryImpl object to set.
 * @return the SyndCategoryImpl object that is being replaced, <b>null</b> if none.
 * *
 */
public Object set(int index, Object obj) {
    SyndCategoryImpl sCat = (SyndCategoryImpl) obj;
    DCSubject subject = (sCat!=null) ? sCat.getSubject() : null;
    subject = (DCSubject) _subjects.set(index,subject);
    return (subject!=null) ? new SyndCategoryImpl(subject) : null;
}
* Adds a category to the list.
  * `<p>`
  * `@param index position to add the category.`
  * `@param obj the SyndCategoryImpl object to add.`
  *
  */
public void add(int index, Object obj) {
    SyndCategoryImpl sCat = (SyndCategoryImpl) obj;
    DCSubject subject = (sCat != null) ? sCat.getSubject() : null;
    _subjects.add(index, subject);
}

/**
 * Removes a category element from a specific position.
  * `<p>`
  * `@param index position to remove the category from.`
  * `@return the SyndCategoryImpl being removed from position index, `<b>null</b>` if none.`
  *
  */
public Object remove(int index) {
    DCSubject subject = (DCSubject) _subjects.remove(index);
    return (subject != null) ? new SyndCategoryImpl(subject) : null;
}

/**
 * Returns a list with the DCSubject elements of the SyndCategoryImpl list facade.
  * To be used by the SyndFeedImpl class only.
  * `<p>`
  * `@param cList the list with SyndCategoryImpl elements to convert to subject list.`
  * `@return a list with DCSubject elements corresponding to the categories in the given list.`
  *
  */
public static List convertElementsSyndCategoryToSubject(List cList) {
    List sList = null;
    if (cList != null) {
      sList = new ArrayList();
      for (int i = 0; i < cList.size(); i++) {
        SyndCategoryImpl sCat = (SyndCategoryImpl) cList.get(i);
        DCSubject subject = null;
        if (sCat != null) {
          subject = sCat.getSubject();
        }
        sList.add(subject);
      }
      return sList;
    }
}
package com.sun.syndication.feed.module;

import com.sun.syndication.feed.impl.ObjectBean;
import com.sun.syndication.feed.impl.CopyFromHelper;

import java.util.Collections;
import java.util.HashMap;
import java.util.Map;
import java.io.Serializable;

/**
 * Subject of the Dublin Core ModuleImpl, default implementation.
 * @see <a href="http://web.resource.org/rss/1.0/modules/dc/">Dublin Core module</a>.
 * @author Alejandro Abdelnur
 *
 */
public class DCSubjectImpl implements Cloneable,Serializable, DCSubject {
    private ObjectBean _objBean;
    private String _taxonomyUri;
    private String _value;

    /**
     * Default constructor. All properties are set to <b>null</b>.
     * @see <p>
     * @author Alejandro Abdelnur
     */
    public DCSubjectImpl() {
        _objBean = new ObjectBean(this.getClass(),this);
    }
}
/**
 * Creates a deep 'bean' clone of the object.
 * @return a clone of the object.
 * @throws CloneNotSupportedException thrown if an element of the object cannot be cloned.
 */
public Object clone() throws CloneNotSupportedException {
    return _objBean.clone();
}

/**
 * Indicates whether some other object is "equal to" this one as defined by the Object equals() method.
 * @param other the reference object with which to compare.
 * @return <b>true</b> if 'this' object is equal to the 'other' object.
 */
public boolean equals(Object other) {
    return _objBean.equals(other);
}

/**
 * Returns a hashcode value for the object.
 * It follows the contract defined by the Object hashCode() method.
 * @return the hashcode of the bean object.
 */
public int hashCode() {
    return _objBean.hashCode();
}

/**
 * Returns the String representation for the object.
 * @return String representation for the object.
 */
public String toString() {
    return _objBean.toString();
}

/**
 * Returns the DublinCore subject taxonomy URI.
 * @return the DublinCore subject taxonomy URI, <b>null</b> if none.
 */

public String getTaxonomyUri() {
    return _taxonomyUri;
}

/**
* Sets the DublinCore subject taxonomy URI.
* <p>
* @param taxonomyUri the DublinCore subject taxonomy URI to set, <b>null</b> if none.
* *
*/
public void setTaxonomyUri(String taxonomyUri) {
    _taxonomyUri = taxonomyUri;
}

/**
* Returns the DublinCore subject value.
* <p>
* @return the DublinCore subject value, <b>null</b> if none.
* *
*/
public String getValue() {
    return _value;
}

/**
* Sets the DublinCore subject value.
* <p>
* @param value the DublinCore subject value to set, <b>null</b> if none.
* *
*/
public void setValue(String value) {
    _value = value;
}

public Class getInterface() {
    return DCSector.class;
}

public void copyFrom(Object obj) {
    COPY_FROM_HELPER.copy(this, obj);
}

private static final CopyFromHelper COPY_FROM_HELPER;
static {
    Map basePropInterfaceMap = new HashMap();
basePropInterfaceMap.put("taxonomyUri",String.class);
basePropInterfaceMap.put("value",String.class);

Map basePropClassImplMap = Collections.EMPTY_MAP;

COPY_FROM_HELPER = new CopyFromHelper(DCSubject.class,basePropInterfaceMap,basePropClassImplMap);
}

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* limitations under the License.
* */
package com.sun.syndication.feed.module;

import com.sun.syndication.feed.impl.CopyFromHelper;

import java.util.*;

/**
 * Syndication ModuleImpl, default implementation.
 * <p>
 * @see <a href="http://web.resource.org/rss/1.0/modules/syndication/">Syndication module</a>
 * @author Alejandro Abdelnur
 * */

public class SyModuleImpl extends ModuleImpl implements SyModule {
    private static final Set PERIODS = new HashSet();

    static {
        PERIODS.add(HOURLY);
        PERIODS.add(DAILY);
        PERIODS.add(WEEKLY);
        PERIODS.add(MONTHLY);
        PERIODS.add(YEARLY);
    }
private String _updatePeriod;
private int _updateFrequency;
private Date _updateBase;

/**
 * Default constructor. All properties are set to <b>null</b>.
 * <p>
 * public SyModuleImpl() {
 * super(SyModule.class,URI);
 * }
 *
 */

/**
 * Returns the Syndication module update period.
 * <p>
 * @return the Syndication module update period, <b>null</b> if none.
 * 
 */
public String getUpdatePeriod() {
    return _updatePeriod;
}

/**
 * Sets the Syndication module update period.
 * <p>
 * @param updatePeriod the Syndication module update period to set, <b>null</b> if none.
 * 
 */
public void setUpdatePeriod(String updatePeriod) {
    if (!PERIODS.contains(updatePeriod)) {
        throw new IllegalArgumentException("Invalid period ["+updatePeriod+"]");
    }
    _updatePeriod = updatePeriod;
}

/**
 * Returns the Syndication module update frequency.
 * <p>
 * @return the Syndication module update frequency, <b>null</b> if none.
 * 
 */
public int getUpdateFrequency() {
    return _updateFrequency;
}
/**
 * Sets the Syndication module update frequency.
 * @param updateFrequency the Syndication module update frequency to set, <b>null</b> if none.
 */
public void setUpdateFrequency(int updateFrequency) {
    _updateFrequency = updateFrequency;
}

/**
 * Returns the Syndication module update base date.
 * @return the Syndication module update base date, <b>null</b> if none.
 */
public Date getUpdateBase() {
    return _updateBase;
}

/**
 * Sets the Syndication module update base date.
 * @param updateBase the Syndication module update base date to set, <b>null</b> if none.
 */
public void setUpdateBase(Date updateBase) {
    _updateBase = updateBase;
}

public Class getInterface() {
    return SyModule.class;
}

public void copyFrom(Object obj) {
    COPY_FROM_HELPER.copy(this, obj);
}

private static final CopyFromHelper COPY_FROM_HELPER;

static {
    Map basePropInterfaceMap = new HashMap();
    basePropInterfaceMap.put("updatePeriod", String.class);
    basePropInterfaceMap.put("updateFrequency", Integer.TYPE);
    basePropInterfaceMap.put("updateBase", Date.class);

    Map basePropClassImplMap = Collections.EMPTY_MAP;
}
COPY_FROM_HELPER = new
CopyFromHelper(SyModule.class,basePropInterfaceMap,basePropClassImplMap);
}
}
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* limitations under the License.
*
*/
package com.sun.syndication.feed.synd;

import com.sun.syndication.feed.impl.ObjectBean;
import com.sun.syndication.feed.module.DCSubjectImpl;
import com.sun.syndication.feed.module.DCSubject;
import java.util.AbstractList;
import java.util.List;
import java.util.ArrayList;
import java.io.Serializable;

/**
* Bean for authors and contributors of SyndFeedImpl feeds and entries.
* @author Dave Johnson
* *
*/
public class SyndPersonImpl implements Serializable, SyndPerson {
    private ObjectBean _objBean;
    private String _name;
    private String _uri;
    private String _email;

    /**
    * For implementations extending SyndContentImpl to be able to use the ObjectBean functionality
    * with extended interfaces.
    */
public SyndPersonImpl() {
    _objBean = new ObjectBean(SyndPerson.class, this);
}

/**
 * Creates a deep 'bean' clone of the object.
 * <p>
 * @return a clone of the object.
 * @throws CloneNotSupportedException thrown if an element of the object cannot be cloned.
 * 
 */

public Object clone() throws CloneNotSupportedException {
    return _objBean.clone();
}

/**
 * Indicates whether some other object is "equal to" this one as defined by the Object equals() method.
 * 
 * @param other the reference object with which to compare.
 * @return <b>true</b> if 'this' object is equal to the 'other' object.
 */

public boolean equals(Object other) {
    return _objBean.equals(other);
}

/**
 * Returns a hashcode value for the object.
 * 
 * It follows the contract defined by the Object hashCode() method.
 * 
 * @return the hashcode of the bean object.
 */

public int hashCode() {
    return _objBean.hashCode();
}

/**
 * Returns the String representation for the object.
 * 
 * @return String representation for the object.
 */

public String toString() {
    return _objBean.toString();
}
/**
 * Returns the person name.
 * @return the person name, <b>null</b> if none.
 */
public String getName() {
    return _name;
}

/**
 * Sets the category name.
 * @param name the category name to set, <b>null</b> if none.
 */
public void setName(String name) {
    _name = name;
}

/**
 * Returns the person's e-mail address.
 * @return the person's e-mail address, <b>null</b> if none.
 */
public String getEmail() {
    return _email;
}

/**
 * Sets the person's e-mail address.
 * @param email The person's e-mail address to set, <b>null</b> if none.
 */
public void setEmail(String email) {
    _email = email;
}

/**
 * Returns the person's URI.
 * @return the person's URI, <b>null</b> if none.
 */
public String getUri() {
return _uri;
}

/**
 * Sets the person's URI.
 * <p>
 * @param uri the person's URI to set, <b>null</b> if none.
 * 
 * /
 * 
 * public void setUri(String uri) {
 *     _uri = uri;
 * }
 */

package com.sun.syndication.feed.synd;

import com.sun.syndication.feed.impl.ObjectBean;
import com.sun.syndication.feed.impl.CopyFromHelper;

import java.util.Collections;
import java.util.HashMap;
import java.util.Map;
import java.io.Serializable;

/**
 * Bean for images of SyndFeedImpl feeds.
 * <p>
 * @author Alejandro Abdelnur
 * 
 * /
 * 
 * public class SyndImageImpl implements Serializable,SyndImage {
 *     private ObjectBean _objBean;
 *     private String _title;
 */

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 * limitations under the License.
 */


private String _url;
private String _link;
private String _description;

/**
 * Default constructor. All properties are set to <b>null</b>.
 * <p>
 * 
 */
public SyndImageImpl() {
    _objBean = new ObjectBean(SyndImage.class,this);
}

/**
 * Creates a deep 'bean' clone of the object.
 * <p>
 * @return a clone of the object.
 * @throws CloneNotSupportedException thrown if an element of the object cannot be cloned.
 * 
 */
public Object clone() throws CloneNotSupportedException {
    return _objBean.clone();
}

/**
 * Indicates whether some other object is "equal to" this one as defined by the Object equals() method.
 * <p>
 * @param other the reference object with which to compare.
 * @return <b>true</b> if 'this' object is equal to the 'other' object.
 * 
 */
public boolean equals(Object other) {
    return _objBean.equals(other);
}

/**
 * Returns a hashcode value for the object.
 * <p>
 * It follows the contract defined by the Object hashCode() method.
 * <p>
 * @return the hashcode of the bean object.
 * 
 */
public int hashCode() {
    return _objBean.hashCode();
}

/**
public String toString() {
    return _objBean.toString();
}

/**
 * Returns the image title.
 * <p>
 * @return the image title, <b>null</b> if none.
 * *
 */
public String getTitle() {
    return _title;
}

/**
 * Sets the image title.
 * <p>
 * @param title the image title to set, <b>null</b> if none.
 * *
 */
public void setTitle(String title) {
    _title = title;
}

/**
 * Returns the image URL.
 * <p>
 * @return the image URL, <b>null</b> if none.
 * *
 */
public String getUrl() {
    return _url;
}

/**
 * Sets the image URL.
 * <p>
 * @param url the image URL to set, <b>null</b> if none.
 * *
 */
public void setUrl(String url) {
    _url = url;
}
/**
 * Returns the image link.
 * <p>
 * @return the image link, <b>null</b> if none.
 * *
 */
public String getLink() {
    return _link;
}

/**
 * Sets the image link.
 * <p>
 * @param link the image link to set, <b>null</b> if none.
 * *
 */
public void setLink(String link) {
    _link = link;
}

/**
 * Returns the image description.
 * <p>
 * @return the image description, <b>null</b> if none.
 * *
 */
public String getDescription() {
    return _description;
}

/**
 * Sets the image description.
 * <p>
 * @param description the image description to set, <b>null</b> if none.
 * *
 */
public void setDescription(String description) {
    _description = description;
}

public Class getInterface() {
    return SyndImage.class;
}

public void copyFrom(Object syndImage) {
    COPY_FROM_HELPER.copy(this,syndImage);
}
private static final CopyFromHelper COPY_FROM_HELPER;

static {
    Map basePropInterfaceMap = new HashMap();
    basePropInterfaceMap.put("title",String.class);
    basePropInterfaceMap.put("url",String.class);
    basePropInterfaceMap.put("link",String.class);
    basePropInterfaceMap.put("description",String.class);

    Map basePropClassImplMap = Collections.EMPTY_MAP;

    COPY_FROM_HELPER = new
    CopyFromHelper(SyndImage.class,basePropInterfaceMap,basePropClassImplMap);
}  
*/
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* 
*/
package com.sun.syndication.feed.synd;

import com.sun.syndication.feed.impl.ObjectBean;
import com.sun.syndication.feed.impl.CopyFromHelper;

import java.util.Collections;
import java.util.HashMap;
import java.util.Map;
import java.io.Serializable;

/**
 * Bean for content of SyndFeedImpl entries.
 * <p>
 * @author Alejandro Abdelnur
 */
public class SyndContentImpl implements Serializable, SyndContent {
    private ObjectBean _objBean;
    private String _type;
    private String _value;
    private String _mode;

    /**
     * Default constructor. All properties are set to <b>null</b>.
     * <p>
     * 
     */
    public SyndContentImpl() {
        _objBean = new ObjectBean(SyndContent.class, this);
    }

    /**
     * Creates a deep 'bean' clone of the object.
     * <p>
     * @return a clone of the object.
     * @throws CloneNotSupportedException thrown if an element of the object cannot be cloned.
     * <p>
     */
    public Object clone() throws CloneNotSupportedException {
        return _objBean.clone();
    }

    /**
     * Indicates whether some other object is "equal to" this one as defined by the Object equals() method.
     * <p>
     * @param other he reference object with which to compare.
     * @return <b>true</b> if 'this' object is equal to the 'other' object.
     * <p>
     */
    public boolean equals(Object other) {
        return _objBean.equals(other);
    }

    /**
     * Returns a hashcode value for the object.
     * <p>
     * It follows the contract defined by the Object hashCode() method.
     * <p>
     * @return the hashcode of the bean object.
     * <p>
     */
    public int hashCode() {
    }
return _objBean.hashCode();
}

/**
 * Returns the String representation for the object.
 * <p>
 * @return String representation for the object.
 * *
 */
public String toString() {
    return _objBean.toString();
}

/**
 * Returns the content type.
 * <p>
 * When used for the description of an entry, if &lt;b&gt;null&lt;/b&gt; 'text/plain' must be assumed.
 * <p>
 * @return the content type, &lt;b&gt;null&lt;/b&gt; if none.
 * *
 */
public String getType() {
    return _type;
}

/**
 * Sets the content type.
 * <p>
 * When used for the description of an entry, if &lt;b&gt;null&lt;/b&gt; 'text/plain' must be assumed.
 * <p>
 * @param type the content type to set, &lt;b&gt;null&lt;/b&gt; if none.
 * *
 */
public void setType(String type) {
    _type = type;
}

/**
 * Returns the content mode.
 * <p>
 * @return the content mode, &lt;b&gt;null&lt;/b&gt; if none.
 * *
 */
public String getMode() {
    return _mode;
}

/**
 * Sets the content mode.
 *<p>
 */
* @param type the content mode to set, <b>null</b> if none.
* 
* /
public void setMode(String mode) {
    _mode = mode;
}

/**
* Returns the content value.
* <p>
* @return the content value, <b>null</b> if none.
* 
* /
public String getValue() {
    return _value;
}

/**
* Sets the content value.
* <p>
* @param value the content value to set, <b>null</b> if none.
* 
* /
public void setValue(String value) {
    _value = value;
}

public Class getInterface() {
    return SyndContent.class;
}

public void copyFrom(Object obj) {
    COPY_FROM_HELPER.copy(this,obj);
}

private static final CopyFromHelper COPY_FROM_HELPER;

static {
    Map basePropInterfaceMap = new HashMap();
    basePropInterfaceMap.put("type",String.class);
    basePropInterfaceMap.put("value",String.class);
    
    Map basePropClassImplMap = Collections.EMPTY_MAP;
    
    COPY_FROM_HELPER = new CopyFromHelper(SyndContent.class,basePropInterfaceMap,basePropClassImplMap);
}
package com.sun.syndication.feed.module;

import com.sun.syndication.feed.impl.CopyFromHelper;
import com.sun.syndication.feed.impl.ObjectBean;

import java.util.*;

/**
 * Dublin Core ModuleImpl, default implementation.
 * <p>
 * @see <a href="http://web.resource.org/rss/1.0/modules/dc/">Dublin Core module</a>.
 * @author Alejandro Abdelnur
 *
 */
public class DCModuleImpl extends ModuleImpl implements DCModule {
    private ObjectBean _objBean;
    private List _title;
    private List _creator;
    private List _subject;
    private List _description;
    private List _publisher;
    private List _contributors;
    private List _date;
    private List _type;
    private List _format;
    private List _identifier;
    private List _source;
    private List _language;
    private List _relation;
}
private List _coverage;
private List _rights;

/**
 * Properties to be ignored when cloning.
 */
private static final Set IGNORE_PROPERTIES = new HashSet();

/**
 * Unmodifiable Set containing the convenience properties of this class.
 * <p>
 * Convenience properties are mapped to Modules, for cloning the convenience
 * properties can be ignored as the will be copied as part of the module
 * cloning.
 * <p>
 */
public static final Set CONVENIENCE_PROPERTIES = Collections.unmodifiableSet(IGNORE_PROPERTIES);

static {
    IGNORE_PROPERTIES.add("title");
    IGNORE_PROPERTIES.add("creator");
    IGNORE_PROPERTIES.add("subject");
    IGNORE_PROPERTIES.add("description");
    IGNORE_PROPERTIES.add("publisher");
    IGNORE_PROPERTIES.add("contributor");
    IGNORE_PROPERTIES.add("date");
    IGNORE_PROPERTIES.add("type");
    IGNORE_PROPERTIES.add("format");
    IGNORE_PROPERTIES.add("identifier");
    IGNORE_PROPERTIES.add("source");
    IGNORE_PROPERTIES.add("language");
    IGNORE_PROPERTIES.add("relation");
    IGNORE_PROPERTIES.add("coverage");
    IGNORE_PROPERTIES.add("rights");
}

/**
 * Default constructor. All properties are set to <b>null</b>.
 */
public DCModuleImpl() {
    super(DCModule.class, URI);
    _objBean = new ObjectBean(DCModule.class, this, CONVENIENCE_PROPERTIES);
}

/**
 * Returns the DublinCore module titles.
 */
* @return a list of Strings representing the DublinCore module title,
*        an empty list if none.
* */

public List getTitles() {
    return (_title == null) ? (_title = new ArrayList()) : _title;
}

/**
 * Sets the DublinCore module titles.
 * <p>
 * @param titles the list of String representing the DublinCore module
 * titles to set, an empty list or &lt;b&gt;null&lt;/b&gt; if none.
 * *
 * */
public void setTitles(List titles) {
    _title = titles;
}

/**
 * Gets the DublinCore module title. Convenience method that can be used to
 * obtain the first item, &lt;b&gt;null&lt;/b&gt; if none.
 * <p>
 * @return the first DublinCore module title, &lt;b&gt;null&lt;/b&gt; if none.
 * *
 * */
public String getTitle() {
    return ((_title != null) && (_title.size() > 0))
        ? (String) _title.get(0) : null;
}

/**
 * Sets the DublinCore module title. Convenience method that can be used
 * when there is only one title to set.
 * <p>
 * @param title the DublinCore module title to set, &lt;b&gt;null&lt;/b&gt; if none.
 * *
 * */
public void setTitle(String title) {
    _title = new ArrayList();
    _title.add(title);
}

/**
 * Returns the DublinCore module creator.
 * <p>
 * @return a list of Strings representing the DublinCore module creator,
 *        an empty list if none.
 * *
 * */
```java
public List getCreators() {
    return (_creator == null) ? (_creator = new ArrayList()) : _creator;
}

/**
 * Sets the DublinCore module creators.
 * <p>
 * @param creators the list of String representing the DublinCore module
 * creators to set, an empty list or null if none.
 * *
 */
public void setCreators(List creators) {
    _creator = creators;
}

/**
 * Gets the DublinCore module title. Convenience method that can be used
 * to obtain the first item, null if none.
 * <p>
 * @return the first DublinCore module title, null if none.
 */
public String getCreator() {
    return ((_creator != null) && (_creator.size() > 0)) ? (String) _creator.get(0) : null;
}

/**
 * Sets the DublinCore module creator. Convenience method that can be used
 * when there is only one creator to set.
 * <p>
 * @param creator the DublinCore module creator to set, null if none.
 * *
 */
public void setCreator(String creator) {
    _creator = new ArrayList();
    _creator.add(creator);
}

/**
 * Returns the DublinCore module subjects.
 * <p>
 * @return a list of DCSubject elements with the DublinCore module subjects,
 * an empty list if none.
 * *
 */
public List getSubjects() {
    return (_subject == null) ? (_subject = new ArrayList()) : _subject;
}
```

/**
 * Sets the DublinCore module subjects.
 * @param subjects the list of DCSubject elements with the DublinCore module subjects to set, an empty list or null if none.
 */
public void setSubjects(List subjects) {
    _subject = subjects;
}

/**
 * Gets the DublinCore module subject. Convenience method that can be used to obtain the first item, null if none.
 * @return the first DublinCore module subject, null if none.
 */
public DCSubject getSubject() {
    return ((_subject != null) && (_subject.size() > 0)) ?
        (DCSubject) _subject.get(0) : null;
}

/**
 * Sets the DCSubject element. Convenience method that can be used when there is only one subject to set.
 * @param subject the DublinCore module subject to set, null if none.
 */
public void setSubject(DCSubject subject) {
    _subject = new ArrayList();
    _subject.add(subject);
}

/**
 * Returns the DublinCore module description.
 * @return a list of Strings representing the DublinCore module description, an empty list if none.
 */
public List getDescriptions() {
    return (_description == null) ? (_description = new ArrayList()) : _description;
}

/**
 * Sets the DublinCore module descriptions.
 * @param descriptions the list of String elements with the DublinCore module descriptions to set, an empty list or null if none.
 */
public void setDescriptions(List descriptions) {
    _description = descriptions;
}

/**
 * Gets the DublinCore module description. Convenience method that can be used to obtain the first item, null if none.
 * @return the first DublinCore module description, null if none.
 */
public String getDescription() {
    return (_description != null) ?
        (_description.size() > 0) ?
            _description.get(0) : null : null;
}
* @param descriptions the list of String representing the DublinCore
* module descriptions to set, an empty list or <b>null</b> if none.
*
*/

public void setDescriptions(List descriptions) {
    _description = descriptions;
}

/**
* Gets the DublinCore module description. Convenience method that can be
* used to obtain the first item, <b>null</b> if none.
* <p>
* @return the first DublinCore module description, <b>null</b> if none.
* */
public String getDescription() {
    return ((_description != null) && (_description.size() > 0)) ?
        (String) _description.get(0) : null;
}

/**
* Sets the DublinCore module description. Convenience method that can be
* used when there is only one description to set.
* <p>
* @param description the DublinCore module description to set, <b>null</b> if none.
* *
*/
public void setDescription(String description) {
    _description = new ArrayList();
    _description.add(description);
}

/**
* Returns the DublinCore module publisher.
* <p>
* @return a list of Strings representing the DublinCore module publisher,
*         an empty list if none.
* *
*/
public List getPublishers() {
    return (_publisher == null) ? (_publisher = new ArrayList()) : _publisher;
}

/**
* Sets the DublinCore module publishers.
* <p>
* @param publishers the list of String representing the DublinCore module
* publishers to set, an empty list or <b>null</b> if none.
* *
*/

public void setPublishers(List publishers) {
    _publisher = publishers;
}

public String getPublisher() {
    return ((_publisher != null) && (_publisher.size() > 0)) ?
        (String) _publisher.get(0) : null;
}

public void setPublisher(String publisher) {
    _publisher = new ArrayList();
    _publisher.add(publisher);
}

public List getContributors() {
    return (_contributors == null) ? (_contributors = new ArrayList()) : _contributors;
}

public void setContributors(List contributors) {
    _contributors = contributors;
}
/**
 * Gets the DublinCore module contributor. Convenience method that can be
 * used to obtain the first item, <b>null</b> if none.
 * @return the first DublinCore module contributor, <b>null</b> if none.
 */
public String getContributor() {
    return ((_contributors != null) && (_contributors.size() > 0)) ?
            (String) _contributors.get(0) : null;
}

/**
 * Sets the DublinCore module contributor. Convenience method that can be
 * used when there is only one contributor to set.
 * @param contributor the DublinCore module contributor to set, <b>null</b> if none.
 */
public void setContributor(String contributor) {
    _contributors = new ArrayList();
    _contributors.add(contributor);
}

/**
 * Returns the DublinCore module date.
 * @return a list of Strings representing the DublinCore module date,
 *         an empty list if none.
 */
public List getDates() {
    return (_date == null) ? (_date = new ArrayList()) : _date;
}

/**
 * Sets the DublinCore module dates.
 * @param dates the list of Date representing the DublinCore module dates
 *              to set, an empty list or <b>null</b> if none.
 */
public void setDates(List dates) {
    _date = dates;
}

/**
 * Sets the DublinCore module dates.
 * @param dates the list of Date representing the DublinCore module dates
 *              to set, an empty list or <b>null</b> if none.
 */
public void setDates(List dates) {
    _date = dates;
}

/**
 * Returns the DublinCore module date.
 * @return a list of Strings representing the DublinCore module date,
 *         an empty list if none.
 */
public List getDates() {
    return (_date == null) ? (_date = new ArrayList()) : _date;
}

/**
 * Sets the DublinCore module dates.
 * @param dates the list of Date representing the DublinCore module dates
 *              to set, an empty list or <b>null</b> if none.
 */
public void setDates(List dates) {
    _date = dates;
}

/**
 * Returns the DublinCore module date.
 * @return a list of Strings representing the DublinCore module date,
 *         an empty list if none.
 */
public List getDates() {
    return (_date == null) ? (_date = new ArrayList()) : _date;
}

/**
 * Sets the DublinCore module dates.
 * @param dates the list of Date representing the DublinCore module dates
 *              to set, an empty list or <b>null</b> if none.
 */
public void setDates(List dates) {
    _date = dates;
}

/**
 * Returns the DublinCore module date.
 * @return a list of Strings representing the DublinCore module date,
 *         an empty list if none.
 */
public List getDates() {
    return (_date == null) ? (_date = new ArrayList()) : _date;
}

/**
 * Sets the DublinCore module dates.
 * @param dates the list of Date representing the DublinCore module dates
 *              to set, an empty list or <b>null</b> if none.
 */
public void setDates(List dates) {
    _date = dates;
}

/**
 * Returns the DublinCore module date.
 * @return a list of Strings representing the DublinCore module date,
 *         an empty list if none.
 */
public List getDates() {
    return (_date == null) ? (_date = new ArrayList()) : _date;
}

/**
 * Sets the DublinCore module dates.
 * @param dates the list of Date representing the DublinCore module dates
 *              to set, an empty list or <b>null</b> if none.
 */
public void setDates(List dates) {
    _date = dates;
}

/**
 * Returns the DublinCore module date.
 * @return a list of Strings representing the DublinCore module date,
 *         an empty list if none.
 */
public List getDates() {
    return (_date == null) ? (_date = new ArrayList()) : _date;
}

/**
 * Sets the DublinCore module dates.
 * @param dates the list of Date representing the DublinCore module dates
 *              to set, an empty list or <b>null</b> if none.
 */
public void setDates(List dates) {
    _date = dates;
}
* Gets the DublinCore module date. Convenience method that can be used to
* obtain the first item, <b>null</b> if none.
* <p>
* @return the first DublinCore module date, <b>null</b> if none.
*/
public Date getDate() {
    return (_date != null) && (_date.size() > 0) ?
        (Date) _date.get(0) : null;
}
/**
* Sets the DublinCore module date. Convenience method that can be used
* when there is only one date to set.
* <p>
* @param date the DublinCore module date to set, <b>null</b> if none.
* *
* /
public void setDate(Date date) {
    _date = new ArrayList();
    _date.add(date);
}
/**
* Returns the DublinCore module type.
* <p>
* @return a list of Strings representing the DublinCore module type,
* an empty list if none.
* *
* /
public List getTypes() {
    return (_type == null) ? (_type = new ArrayList()) : _type;
}
/**
* Sets the DublinCore module types.
* <p>
* @param types the list of String representing the DublinCore module types
* to set, an empty list or <b>null</b> if none.
* *
* /
public void setTypes(List types) {
    _type = types;
}
/**
* Gets the DublinCore module type. Convenience method that can be used to
* obtain the first item, <b>null</b> if none.
* <p>
* @return the first DublinCore module type, <b>null</b> if none.
/**
 * Gets the DublinCore module format. Convenience method that can be used
 * to obtain the first item, <b>null</b> if none.
 * <p>
 * @return the first DublinCore module format, <b>null</b> if none.
 */

public String getFormat() {
    return ((_format != null) && (_format.size() > 0)) ?
            (String) _format.get(0) : null;
}

/**
 * Sets the DublinCore module formats.
 * <p>
 * @param formats the list of String representing the DublinCore module
 * formats to set, an empty list or <b>null</b> if none.
 * <p>
 */

public void setFormats(List formats) {
    _format = formats;
}

/**
 * Returns the DublinCore module format.
 * <p>
 * @return a list of Strings representing the DublinCore module format,
 * an empty list if none.
 * <p>
 */

public List getFormats() {
    return (_format == null) ? (_format = new ArrayList()) : _format;
}

/**
 * Sets the DublinCore module type. Convenience method that can be used
 * when there is only one type to set.
 * <p>
 * @param type the DublinCore module type to set, <b>null</b> if none.
 * <p>
 */

public void setType(String type) {
    _type = new ArrayList();
    _type.add(type);
}

/**
 * Gets the DublinCore module type. Convenience method that can be used
 * to obtain the first item, <b>null</b> if none.
 * <p>
 * @return the first type, <b>null</b> if none.
 */

public String getType() {
    return ((_type != null) && (_type.size() > 0)) ?
            (String) _type.get(0) : null;
}

/**
 * Sets the DublinCore module format. Convenience method that can be used
 * when there is only one format to set.
 * <p>
 * @param formats the list of String representing the DublinCore module
 * formats to set, an empty list or <b>null</b> if none.
 * <p>
 */

public void setFormats(List formats) {
    _format = formats;
}
(String) _format.get(0) : null;
}

/**
 * Sets the DublinCore module format. Convenience method that can be used
 * when there is only one format to set.
 * <p>
 * @param format the DublinCore module format to set, &lt;b&gt;null&lt;/b&gt; if none.
 * @
 */
public void setFormat(String format) {
    _format = new ArrayList();
    _format.add(format);
}

/**
 * Returns the DublinCore module identifier.
 * <p>
 * @return a list of Strings representing the DublinCore module identifier,
 *         an empty list if none.
 * @
 */
public List getIdentifiers() {
    return (_identifier == null) ? (_identifier = new ArrayList()) : _identifier;
}

/**
 * Sets the DublinCore module identifiers.
 * <p>
 * @param identifiers the list of String representing the DublinCore module
 * identifiers to set, an empty list or &lt;b&gt;null&lt;/b&gt; if none.
 * @
 */
public void setIdentifiers(List identifiers) {
    _identifier = identifiers;
}

/**
 * Gets the DublinCore module identifier. Convenience method that can be
 * used to obtain the first item, &lt;b&gt;null&lt;/b&gt; if none.
 * <p>
 * @return the first DublinCore module identifier, &lt;b&gt;null&lt;/b&gt; if none.
 * @
 */
public String getIdentifier() {
    return ((_identifier != null) && (_identifier.size() > 0)) ?
        (String) _identifier.get(0) : null;
/**
 * Sets the DublinCore module identifier. Convenience method that can be
 * used when there is only one identifier to set.
 * @param identifier the DublinCore module identifier to set, <b>null</b> if none.
 * /
 * public void setIdentifier(String identifier) {
 *     _identifier = new ArrayList();
 *     _identifier.add(identifier);
 * }
 */

/**
 * Returns the DublinCore module source.
 * @return a list of Strings representing the DublinCore module source,
 *         an empty list if none.
 * /
 * public List getSources() {
 *     return (_source == null) ? (_source = new ArrayList()) : _source;
 * }
 */

/**
 * Sets the DublinCore module sources.
 * @param sources the list of String representing the DublinCore module
 *                 sources to set, an empty list or <b>null</b> if none.
 * /
 * public void setSources(List sources) {
 *     _source = sources;
 * }
 */

/**
 * Gets the DublinCore module source. Convenience method that can be used
 * to obtain the first item, <b>null</b> if none.
 * @return the first DublinCore module source, <b>null</b> if none.
 * /
 * public String getSource() {
 *     return (_source != null) && (_source.size() > 0)) ?
 *             (String) _source.get(0) : null;
 * }
 */

/**
 * Sets the DublinCore module source. Convenience method that can be used
 * when there is only one source to set.
 *
/**
 * Returns the DublinCore module language.
 * @return a list of Strings representing the DublinCore module language,
 *         an empty list if none.
 */
public List getLanguages() {
    return (_language == null) ? (_language = new ArrayList()) : _language;
}

/**
 * Sets the DublinCore module languages.
 * @param languages the list of String representing the DublinCore module
 *                    languages to set, an empty list or <b>null</b> if none.
 */
public void setLanguages(List languages) {
    _language = languages;
}

/**
 * Gets the DublinCore module language. Convenience method that can be
 * used to obtain the first item, <b>null</b> if none.
 * @return the first DublinCore module language, <b>null</b> if none.
 */
public String getLanguage() {
    return ((_language != null) && (_language.size() > 0)) ?
           (String) _language.get(0) : null;
}

/**
 * Sets the DublinCore module language. Convenience method that can be used
 * when there is only one language to set.
 * @param language the DublinCore module language to set, <b>null</b> if none.
 */

public void setLanguage(String language) {
    _language = new ArrayList();
    _language.add(language);
}

/**
 * Returns the DublinCore module relation.
 * <p>
 * @return a list of Strings representing the DublinCore module relation,
 *         an empty list if none.
 * *
 */
public List getRelations() {
    return (_relation == null) ? (_relation = new ArrayList()) : _relation;
}

/**
 * Sets the DublinCore module relations.
 * <p>
 * @param relations the list of String representing the DublinCore module
 *         relations to set, an empty list or <b>null</b> if none.
 * *
 */
public void setRelations(List relations) {
    _relation = relations;
}

/**
 * Gets the DublinCore module relation. Convenience method that can be used
 * to obtain the first item, <b>null</b> if none.
 * <p>
 * @return the first DublinCore module relation, <b>null</b> if none.
 */
public String getRelation() {
    return ((_relation != null) && (_relation.size() > 0)) ?
           (String) _relation.get(0) : null;
}

/**
 * Sets the DublinCore module relation. Convenience method that can be used
 * when there is only one relation to set.
 * <p>
 * @param relation the DublinCore module relation to set, <b>null</b> if none.
 * *
 */
public void setRelation(String relation) {
    _relation = new ArrayList();
    _relation.add(relation);
/**
 * Returns the DublinCore module coverage.
 * <p>
 * @return a list of Strings representing the DublinCore module coverage,
 * an empty list if none.
 * <p>
 * / *
 * public List getCoverages() { 
 * return (_coverage == null) ? (_coverage = new ArrayList()) : _coverage;
 *
 * */
 */

/**
 * Sets the DublinCore module coverages.
 * <p>
 * @param coverages the list of String representing the DublinCore module
 * coverages to set, an empty list or <b>null</b> if none.
 * <p>
 * */
 public void setCoverages(List coverages) {
 _coverage = coverages;
 }

/**
 * Gets the DublinCore module coverage. Convenience method that can be used
 * to obtain the first item, <b>null</b> if none.
 * <p>
 * @return the first DublinCore module coverage, <b>null</b> if none.
 * <p>
 * */
 public String getCoverage() {
 return ((_coverage != null) && (_coverage.size() > 0)) ?
 (String) _coverage.get(0) : null;
 }

/**
 * Sets the DublinCore module coverage. Convenience method that can be used
 * when there is only one coverage to set.
 * <p>
 * @param coverage the DublinCore module coverage to set, <b>null</b> if none.
 * <p>
 * */
 public void setCoverage(String coverage) {
 _coverage = new ArrayList();
 _coverage.add(coverage);
 }

/**
* Returns the DublinCore module rights.

* <p>

* @return a list of Strings representing the DublinCore module rights,

* an empty list if none.

*/

public List getRightsList() {
    return (_rights == null) ? (_rights = new ArrayList()) : _rights;
}

/**
* Sets the DublinCore module rights.

* <p>

* @param rights the list of String representing the DublinCore module

* rights to set, an empty list or <b>null</b> if none.

* */

public void setRightsList(List rights) {
    _rights = rights;
}

/**
* Gets the DublinCore module rights. Convenience method that can be used

* to obtain the first item, <b>null</b> if none.

* <p>

* @return the first DublinCore module rights, <b>null</b> if none.

*/

public String getRights() {
    return ((_rights != null) && (_rights.size() > 0)) ?
        (String) _rights.get(0) : null;
}

/**
* Sets the DublinCore module rights. Convenience method that can be used

* when there is only one rights to set.

* <p>

* @param rights the DublinCore module rights to set, <b>null</b> if none.

* */

public void setRights(String rights) {
    _rights = new ArrayList();
    _rights.add(rights);
}

/**
* Creates a deep 'bean' clone of the object.

* <p>

* @return a clone of the object.
* @throws CloneNotSupportedException thrown if an element of the object cannot be cloned.
* */
public final Object clone() throws CloneNotSupportedException {
    return _objBean.clone();
}

/**
* Indicates whether some other object is "equal to" this one as defined by the Object equals() method.
* @param other the reference object with which to compare.
* @return <b>true</b> if 'this' object is equal to the 'other' object.
* */
public final boolean equals(Object other) {
    return _objBean.equals(other);
}

/**
* Returns a hashcode value for the object.
* @return the hashcode of the bean object.
* */
public final int hashCode() {
    return _objBean.hashCode();
}

/**
* Returns the String representation for the object.
* @return String representation for the object.
* */
public final String toString() {
    return _objBean.toString();
}

public final Class getInterface() {
    return DCModule.class;
}

public final void copyFrom(Object obj) {
    COPY_FROM_HELPER.copy(this, obj);
}
package com.sun.syndication.feed.module;

import com.sun.syndication.feed.impl.ObjectBean;

import java.io.Serializable;

private static final CopyFromHelper COPY_FROM_HELPER;

static {
    Map basePropInterfaceMap = new HashMap();
    basePropInterfaceMap.put("titles", String.class);
    basePropInterfaceMap.put("creators", String.class);
    basePropInterfaceMap.put("subjects", DCSubject.class);
    basePropInterfaceMap.put("descriptions", String.class);
    basePropInterfaceMap.put("publishers", String.class);
    basePropInterfaceMap.put("contributors", String.class);
    basePropInterfaceMap.put("dates", Date.class);
    basePropInterfaceMap.put("types", String.class);
    basePropInterfaceMap.put("formats", String.class);
    basePropInterfaceMap.put("identifiers", String.class);
    basePropInterfaceMap.put("sources", String.class);
    basePropInterfaceMap.put("languages", String.class);
    basePropInterfaceMap.put("relations", String.class);
    basePropInterfaceMap.put("coverages", String.class);
    basePropInterfaceMap.put("rightsList", String.class);

    Map basePropClassImplMap = new HashMap();
    basePropClassImplMap.put(DCSubject.class, DCSummaryImpl.class);

    COPY_FROM_HELPER = new
            CopyFromHelper(DCModule.class, basePropInterfaceMap, basePropClassImplMap);
}

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 * 
 */
package com.sun.syndication.feed.module;

import com.sun.syndication.feed.impl.ObjectBean;

import java.io.Serializable;
/**
 * Base class for modules describing Metadata of feeds, default implementations.
 * Examples of such modules are the Dublin Core and Syndication modules.
 * <p>
 * @author Alejandro Abdelnur
 * 
 */

class ModuleImpl implements Cloneable, Serializable, Module {
    private ObjectBean _objBean;
    private String _uri;

    /**
     * Constructor.
     * <p>
     * @param uri URI of the module.
     * 
     */
    protected ModuleImpl(Class beanClass, String uri) {
        _objBean = new ObjectBean(beanClass, this);
        _uri = uri;
    }

    /**
     * Creates a deep 'bean' clone of the object.
     * <p>
     * @return a clone of the object.
     * @throws CloneNotSupportedException thrown if an element of the object cannot be cloned.
     * 
     */
    public Object clone() throws CloneNotSupportedException {
        return _objBean.clone();
    }

    /**
     * Indicates whether some other object is "equal to" this one as defined by the Object equals() method.
     * <p>
     * @param other the reference object with which to compare.
     * @return <b>true</b> if this object is equal to the 'other' object.
     * 
     */
    public boolean equals(Object other) {
        return _objBean.equals(other);
    }

    /**
     * Returns a hashcode value for the object.
     * <p>
     */

* It follows the contract defined by the Object hashCode() method.
* <p>
* @return the hashcode of the bean object.
* <p>
*/
public int hashCode() {
    return _objBean.hashCode();
}

/**
 * Returns the String representation for the object.
 * <p>
 * @return String representation for the object.
 * <p>
*/
public String toString() {
    return _objBean.toString();
}

/**
 * Returns the URI of the module.
 * <p>
 * @return URI of the module.
 * <p>
*/
public String getUri() {
    return _uri;
}

1.947 swagger-core 1.5.16

1.948 swagger-annotations 1.5.20

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```java
package io.swagger.annotations;

import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
 * License metadata available within the info section of a Swagger definition, see
 * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
 * @since 1.5.0
 */

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {
    /**
     * The name of the license.
     * @return the name of the license
     */
    String name();

    /**
     * An optional URL for the license.
     * @return an optional URL for the license.
     */
    String url() default "";
}
```

1.949 wso2-carbon-apimgt-authenticator-oidc-stub 6.4.50
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1.950 jackson-jaxrs-json-provider 2.9.6

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# Jackson JSON processor

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

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1.951 cxf-rt-transports-http 2.7.16
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 */

package org.apache.cxf.io;

import java.io.IOException;
import java.io.InputStream;

/**
 * Marker interface for OutputStreams that can directly support copying from an input stream. OutputStreams that maintain their own byte buffer or similar may be able to optimize the copy instead of using the read/write into a temporary buffer that the normal IOUtils.copy method requires.
 */
public interface CopyingOutputStream {

    int copyFrom(InputStream in) throws IOException;

}
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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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**1.974 kerberos 1.15-1+deb9u1**

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
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lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
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cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd.rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mecggssapiP_spnego.h
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lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
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lib/libgss/g_verify.c
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uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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* /opt/ws_local/PERMITS_SQL/1063698744_1593013287.58/0/vertx-bridge-common-3-9-1-sources-jar/io/vertx/ext/bridge/BridgeOptions.java
* /opt/ws_local/PERMITS_SQL/1063698744_1593013287.58/0/vertx-bridge-common-3-9-1-sources-jar/io/vertx/ext/bridge/package-info.java
* /opt/ws_local/PERMITS_SQL/1063698744_1593013287.58/0/vertx-bridge-common-3-9-1-sources-jar/io/vertx/ext/bridge/PermittedOptions.java

1.980 slf4j-log4j 1.7.25
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1.981 concurrent 1.1.0.v20130327-1442

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1.982 javassist 3.18.1-GA

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jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /opt/ws_local/PERMITS_SQL/1013582616_1591370584.7/0/javassist-3-18-1-ga-sources-jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/ws_local/PERMITS_SQL/1013582616_1591370584.7/0/javassist-3-18-1-ga-sources-jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /opt/ws_local/PERMITS_SQL/1013582616_1591370584.7/0/javassist-3-18-1-ga-sources-jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/ws_local/PERMITS_SQL/1013582616_1591370584.7/0/javassist-3-18-1-ga-sources-jar/javassist/bytecode/annotation/Annotation.java
* /opt/ws_local/PERMITS_SQL/1013582616_1591370584.7/0/javassist-3-18-1-ga-sources-jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /opt/ws_local/PERMITS_SQL/1013582616_1591370584.7/0/javassist-3-18-1-ga-sources-jar/javassist/bytecode/annotation/ShortMemberValue.java

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* /opt/ws_local/PERMITS_SQL/1013582616_1591370584.7/0/javassist-3-18-1-ga-sources-jar/javassist/compiler/AccessorMaker.java
* /opt/ws_local/PERMITS_SQL/1013582616_1591370584.7/0/javassist-3-18-1-ga-sources-jar/javassist/bytecode/annotation/AnnotationsWriter.java
* /opt/ws_local/PERMITS_SQL/1013582616_1591370584.7/0/javassist-3-18-1-ga-sources-jar/javassist/CtNewConstructor.java
* /opt/ws_local/PERMITS_SQL/1013582616_1591370584.7/0/javassist-3-18-1-ga-sources-jar/javassist/CtBehavior.java
* /opt/ws_local/PERMITS_SQL/1013582616_1591370584.7/0/javassist-3-18-1-ga-sources-jar/javassist/bytecode/ExceptionsAttribute.java
* /opt/ws_local/PERMITS_SQL/1013582616_1591370584.7/0/javassist-3-18-1-ga-sources-jar/javassist/bytecode/ParameterAnnotationsAttribute.java
* /opt/ws_local/PERMITS_SQL/1013582616_1591370584.7/0/javassist-3-18-1-ga-sources-jar/javassist/expr/ConstructorCall.java
jar/javassist/bytecode/analysis/ControlFlow.java
* /opt/ws_local/PERMITS_SQL/1013582616_1591370584.7/javassist-3-18-1-ga-sources.jar/javassist/runtime/DotClass.java
* /opt/ws_local/PERMITS_SQL/1013582616_1591370584.7/javassist-3-18-1-ga-sources.jar/javassist/bytecode/InnerClassesAttribute.java
* /opt/ws_local/PERMITS_SQL/1013582616_1591370584.7/javassist-3-18-1-ga-sources.jar/javassist/bytecode/InstructionPrinter.java
* /opt/ws_local/PERMITS_SQL/1013582616_1591370584.7/javassist-3-18-1-ga-sources.jar/javassist/util/proxy/SerializedProxy.java
* /opt/ws_local/PERMITS_SQL/1013582616_1591370584.7/javassist-3-18-1-ga-sources.jar/javassist/compiler/MemberCodeGen.java
* /opt/ws_local/PERMITS_SQL/1013582616_1591370584.7/javassist-3-18-1-ga-sources.jar/javassist/URLClassPath.java
* /opt/ws_local/PERMITS_SQL/1013582616_1591370584.7/javassist-3-18-1-ga-sources.jar/javassist/bytecode/analysis/Executor.java
* /opt/ws_local/PERMITS_SQL/1013582616_1591370584.7/javassist-3-18-1-ga-sources.jar/javassist/ClassPool.java
* /opt/ws_local/PERMITS_SQL/1013582616_1591370584.7/javassist-3-18-1-ga-sources.jar/javassist/tools/rmi/ObjectImporter.java
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* /opt/ws_local/PERMITS_SQL/1013582616_1591370584.7/javassist-3-18-1-ga-sources.jar/javassist/convert/Transformer.java
* /opt/ws_local/PERMITS_SQL/1013582616_1591370584.7/javassist-3-18-1-ga-sources.jar/javassist/CodeConverter.java
* /opt/ws_local/PERMITS_SQL/1013582616_1591370584.7/javassist-3-18-1-ga-sources.jar/javassist/bytecode/Mnemonic.java
* /opt/ws_local/PERMITS_SQL/1013582616_1591370584.7/javassist-3-18-1-ga-sources.jar/javassist/bytecode/ExceptionTable.java
* /opt/ws_local/PERMITS_SQL/1013582616_1591370584.7/javassist-3-18-1-ga-sources.jar/javassist/tools/reflect/Metaobject.java
* /opt/ws_local/PERMITS_SQL/1013582616_1591370584.7/javassist-3-18-1-ga-sources.jar/javassist/compiler/ProceedHandler.java
* /opt/ws_local/PERMITS_SQL/1013582616_1591370584.7/javassist-3-18-1-ga-sources.jar/javassist/bytecode/CodeAnalyzer.java
* /opt/ws_local/PERMITS_SQL/1013582616_1591370584.7/javassist-3-18-1-ga-sources.jar/javassist/bytecode/ClassFilePrinter.java

1.983 cxf-rt-rs-security-xml 2.7.16

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* /opt/ws_local/PERMITS_SQL/1068719370_1594426949.98/0/json-schema-validator-1-0-31-sources-jar/com/networknt/schema/format/InetAddressValidator.java
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## Special Recognition ##

One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire buildsystem we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks : but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

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

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

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

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

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

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

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

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the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
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which the executable runs, unless that component itself accompanies
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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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1.1005 grub 2.02-88.el8

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

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jloup@gzip.org          madler@alumni.caltech.edu
=encoding utf8

=head1 NAME

parent - Establish an ISA relationship with base classes at compile time

=head1 SYNOPSIS

package Baz;
use parent qw(Foo Bar);

=head1 DESCRIPTION

Allows you to both load one or more modules, while setting up inheritance from those modules at the same time. Mostly similar in effect to

package Baz;
BEGIN {
    require Foo;
    require Bar;
    push @ISA, qw(Foo Bar);
}

By default, every base class needs to live in a file of its own. If you want to have a subclass and its parent class in the same file, you can tell C<parent> not to load any modules by using the C<-norequire> switch:

package Foo;
sub exclaim { "I CAN HAS PERL" }

package DoesNotLoadFooBar;
use parent -norequire, 'Foo', 'Bar';
# will not go looking for Foo.pm or Bar.pm

This is equivalent to the following code:

package Foo;
sub exclaim { "I CAN HAS PERL" }

package DoesNotLoadFooBar;
push @DoesNotLoadFooBar::ISA, 'Foo', 'Bar';

This is also helpful for the case where a package lives within a differently named file:

```perl
package MyHash;
use Tie::Hash;
use parent -norequire, 'Tie::StdHash';
```

This is equivalent to the following code:

```perl
package MyHash;
require Tie::Hash;
push @ISA, 'Tie::StdHash';
```

If you want to load a subclass from a file that `require` would not consider an eligible filename (that is, it does not end in either `.*` or `.*`), use the following code:

```perl
package MySecondPlugin;
require './plugins/custom.plugin'; # contains Plugin::Custom
use parent -norequire, 'Plugin::Custom';
```

=head1 HISTORY

This module was forked from `base` to remove the cruft that had accumulated in it.

=head1 CAVEATS

=head1 SEE ALSO

L`base`

=head1 AUTHORS AND CONTRIBUTORS

Rafaël Garcia-Suarez, Bart Lateur, Max Maischein, Anno Siegel, Michael Schwern

=head1 MAINTAINER

Max Maischein C`corion@cpan.org`

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Based on the idea of `base.pm`, which was introduced with Perl 5.004_04.

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---

abstract: 'Establish an ISA relationship with base classes at compile time'

author:
- 'Max Maischein <corion@cpan.org>'

build_requires:
  ExtUtils::MakeMaker: '0'

configure_requires:
  ExtUtils::MakeMaker: '0'

dynamic_config: 1

generated_by: 'ExtUtils::MakeMaker version 7.34, CPAN::Meta::Converter version 2.150005'

license: perl

meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'

name: parent

no_index:

directory:
  - t
  - inc

requires:
  Test::More: '0.4'
  perl: '5.006'

resources:
  repository: https://github.com/Corion/parent
  version: '0.237'

x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

---

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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Protocol Buffers for Go with Gadgets

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Gocheck - A rich testing framework for Go

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1.1036 tomcat-servlet-api 7.0.85.wso2v1

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Version 2.1, February 1999

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<td>apache2</td>
</tr>
<tr>
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<td>geronimo-jta_1.1_spec-1.1.jar</td>
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<td>apache2</td>
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geronimo-saaj_1.3_spec_1.0.1.wso2v2.jar  bundle  apache2  16051
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h2_1.3.175.wso2v1.jar  bundle  apache2  9731
hazelcast_3.5.4.wso2v2.jar  bundle  apache2  8481
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javasysmon_0.3.3.wso2v1.jar  bundle  bsd  721
javax.cache.wso2_4.4.35.jar  bundle  apache2  3229
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jettison_1.3.4.wso2v1.jar  bundle  apache2  2162
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1.1056 wso2-carbon-feature-mgt-stub 4.4.35

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# Jackson JSON processor

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**Open Source Used In Connected-Pharma 1.5-UI & ServiceLayer 10487**
tcpmon-1.0.jar  
tiles-jsp_2.0.5.wso2v1.jar  
tomcat-annotations-api-7.0.85.jar  
tomcat-catalina-ha_7.0.85.wso2v1.jar  
tomcat-el-api_7.0.85.wso2v1.jar  
tomcat-jsp-api_7.0.85.wso2v1.jar  
tomcat-juli-7.0.85.jar  
tomcat-servlet-api_7.0.85.wso2v1.jar  
tomcat_7.0.85.wso2v1.jar  
tyrus-standalone-client_1.7.0.wso2v1.jar  
uddi4j-1.0.1.jar  
velocity-1.7.jar  
wadl-core_1.1.6.wso2v1.jar  
waffle-jna.jar  
waffle-jna_1.6.0.wso2v5.jar  
woden_1.0.0.M9-wso2v1.jar  
woodstox-core-asm-4.4.1.jar  
wsdl-validator_1.2.0.wso2v1.jar  
wsdl4j-1.6.3.jar  
wsdl4j.wso2_1.6.3.wso2v3.jar  
wsdl4j_1.6.2.wso2v4.jar  
wso2-uri-templates_1.6.5.jar  
wss4j_1.5.11.wso2v17.jar  
xercesImpl-2.8.1.wso2v2.jar  
xml-api-1.4.01.jar  
xml-resolver-1.2.jar  
xmlbeans-2.3.0.jar  
xmlbeans_2.3.0.wso2v1.jar  
xmlschema-core-2.1.0.jar  
XmlSchema_1.4.7.wso2v3.jar  
xmlsec-1.5.8.jar

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1.1071 ncurses 6.1-7.20180224.el8

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package api

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "regexp"
    "testing"
)

// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|The Go Authors)(\.)*( All rights reserved\.)*( //|#) Use of this source code is governed by a BSD-style ( //|#) license that can be found in the LICENSE file. `)

const prefix = "// Copyright"

// A few files have to be skipped.
var skip = map[string]bool{
    "tools.go": false, // This file requires another comment above the license.
    "internal/third_party/uritemplates/uritemplates.go": true, // This file is licensed to an individual.
    "internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.
}

// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {

err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
    if skip[path] {
        return nil
    }

    if err != nil {
        return err
    }

    if filepath.Ext(path) != ".go" && filepath.Ext(path) != ".sh" {
        return nil
    }

    src, err := ioutil.ReadFile(path)
    if err != nil {
        return nil
    }

    // Verify that the license is matched.
    if !sentinel.Match(src) {
        t.Errorf("%v: license header not present", path)
        return nil
    }

    // Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
    if filepath.Ext(path) == ".go" && !bytes.HasPrefix(src, []byte(prefix)) {
        t.Errorf("%v: license header not at the top", path)
    }
    return nil
})
if err != nil {
    t.Fatal(err)
}
}

---

1.1078 classmate 1.1.0

1.1078.1 Available under license:

Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel

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langdetect

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It was originally written by Tatu Saloranta (tatu.salaranta@iki.fi), and has
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It specifically implements StAX 1.0 API:


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Woodstox was originally written by Tatu Saloranta (<tatu.saloranta@iki.fi>).

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# Jackson JSON processor

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

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

CyberNeko HTML Parser
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NekoHTML is a simple HTML scanner and tag balancer that enables
application programmers to parse HTML documents and access the
information using standard XML interfaces. The parser can scan HTML
files and "fix up" many common mistakes that human (and computer)
authors make in writing HTML documents. NekoHTML adds missing parent
elements; automatically closes elements with optional end tags; and can
handle mismatched inline element tags.

NekoHTML is written using the Xerces Native Interface (XNI) that is the
foundation of the Xerces2 implementation. This enables you to use the
NekoHTML parser with existing XNI tools without modification or
rewriting code.

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

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---

When upgrading Lucene-Java Jars, remember to generate new Analysis 
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details...

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The initial code for shuffling an array (originally in class "org.apache.commons.math3.random.RandomDataGenerator", now replaced by a method in class "org.apache.commons.math3.util.MathArrays") was inspired from the algorithm description provided in "Algorithms", by Ian Craw and John Pulham (University of Aberdeen 1999).

The textbook (containing a proof that the shuffle is uniformly random) is available here:
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noggit

https://github.com/yonik/noggit

1.1082 wso2-carbon-governance-wsdltool

4.7.27

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* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/sslHandshakeCompletionEvent.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/ocsp/package-info.java
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* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/OpenSslPrivateKey.java
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* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java

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jar/io/netty/handler/ssl/PemX509Certificate.java
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* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1.jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
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5.1.42

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* /opt/ws_local/PERMITS_SQL/1069396078_1594653426.01/0/netty-buffer-4-0-39-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1069396078_1594653426.01/0/netty-buffer-4-0-39-final-sources-1-
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1.1101 mime-pull 1.9.1

1.1102 procps 3.3.10 10.el7
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1.1106 wso2-carbon-server-admin 4.4.35

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The license types used by the above libraries and their information is given below:

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Version 2.0, January 2004

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SampleServlet
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3.2.44

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/* lib/font/fontfile/gunzip.c
   written by Mark Eichin <eichin@kitten.gen.ma.us> September 1996.
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4.4.35

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

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SampleServlet
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* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-jar/io/netty/resolver/dns/DnsCnameCache.java
* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-jar/io/netty/resolver/dns/DnsAddressDecoder.java
* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-jar/io/netty/resolver/dns/DnsAddressResolverGroup.java
* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-jar/io/netty/resolver/dns/NoopDnsAddressResolverGroup.java
* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-jar/io/netty/resolver/dns/DnsAddressDecoder.java
jar/io/netty/resolver/dns/Cache.java
* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-
jar/io/netty/resolver/dns/DefaultDnsCnameCache.java
* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-
jar/io/netty/resolver/dns/AuthoritativeDnsServerCacheAdapter.java
* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-
jar/io/netty/resolver/dns/NameServerComparator.java
* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-
jar/io/netty/resolver/dns/NoopAuthoritativeDnsServerCache.java
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jar/io/netty/resolver/dns/NoopDnsCnameCache.java
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jar/io/netty/resolver/dns/RotationalDnsServerAddresses.java
* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-
jar/io/netty/resolver/dns/DnsQueryContextManager.java

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* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-
jar/io/netty/resolver/dns/DnsNameResolverException.java
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1.1131 perl-text-parsewords 3.30-395.el8

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=head1 NAME

Text::ParseWords - parse text into an array of tokens or array of arrays

=head1 SYNOPSIS

use Text::ParseWords;
@lists = nested_quotewords($delim, $keep, @lines);
@words = quotewords($delim, $keep, @lines);
@words = shellwords(@lines);
@words = parse_line($delim, $keep, $line);
@words = old_shellwords(@lines); # DEPRECATED!

=head1 DESCRIPTION

The &nested_quotewords() and &quotewords() functions accept a delimiter
(which can be a regular expression)
and a list of lines and then breaks those lines up into a list of
words ignoring delimiters that appear inside quotes. &quotewords()
returns all of the tokens in a single long list, while &nested_quotewords()
returns a list of token lists corresponding to the elements of @lines.
&parse_line() does tokenizing on a single string. The &quotewords() functions simply call &parse_line(), so if you're only splitting
one line you can call &parse_line() directly and save a function
call.

The $keep argument is a boolean flag. If true, then the tokens are
split on the specified delimiter, but all other characters (including
quotes and backslashes) are kept in the tokens. If $keep is false then the
&quotewords() functions remove all quotes and backslashes that are
not themselves backslash-escaped or inside of single quotes (i.e.,
&quotewords() tries to interpret these characters just like the Bourne
shell). NB: these semantics are significantly different from the
original version of this module shipped with Perl 5.000 through 5.004.
As an additional feature, $keep may be the keyword "delimiters" which
causes the functions to preserve the delimiters in each string as tokens in the token lists, in addition to preserving quote and backslash characters.

&shellwords() is written as a special case of &quotewords(), and it does token parsing with whitespace as a delimiter-- similar to most Unix shells.

=head1 EXAMPLES

The sample program:

use Text::ParseWords;
@words = quotewords(\s+\, 0, q{this is "a test" of \ quotewords \"for you\});
$i = 0;
foreach (@words) {
    print "$i: <$_>\n";
    $i++;
}

produces:

0: <this>
1: <is>
2: <a test>
3: <of quotewords>
4: <"for>
5: <you>

demonstrating:

=over 4
=item 0Z<> a simple word
=item 1Z<> multiple spaces are skipped because of our $delim
=item 2Z<> use of quotes to include a space in a word
=item 3Z<> use of a backslash to include a space in a word
use of a backslash to remove the special meaning of a double-quote

another simple word (note the lack of effect of the backslashed double-quote)

Replacing C<quotewords(\s+, 0, q{this is...})>
with C<shellwords(q{this is...})>
is a simpler way to accomplish the same thing.

SEE ALSO

L<Text::CSV> - for parsing CSV files

AUTHORS

Maintainer: Alexandr Ciornii <alexchornyATgmail.com>.

Previous maintainer: Hal Pomeranz <pomeranz@netcom.com>, 1994-1997 (Original author unknown). Much of the code for &parse_line() (including the primary regexp) from Joerk Behrends <jbehrends@multimediaproduzenten.de>.

Examples section another documentation provided by John Heidemann <johnh@ISI.EDU>

Bug reports, patches, and nagging provided by lots of folks-- thanks everybody! Special thanks to Michael Schwern <schwern@envirolink.org> for assuring me that a &nested_quotewords() would be useful, and to Jeff Friedl <jfriedl@yahoo-inc.com> for telling me not to worry about error-checking (sort of-- you had to be there).

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---

abstract: parse text into an array of tokens or array of arrays
author:
  - 'Alexandr Ciornii <alexchorny@gmail.com>'
build_requires:
  ExtUtils::MakeMaker: 0
  Scalar::Util: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.78, CPAN::Meta::Converter version 2.143240'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Text-ParseWords
no_index:
directory:
  - t
  - inc
requires:
  perl: 5.006
resources:
  repository: http://github.com/chorny/Text-ParseWords
  version: 3.30

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1.1132 wso2-carbon-tenant-mgt 4.6.15
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* /opt/ws_local/PERMITS_SQL/1078335643_1597294858.63/0/jackson-mapper-asl-1-9-12-sources-5-jar/org/codehaus/jackson/map/MappingJsonFactory.java

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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
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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
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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
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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.)

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.

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
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You must give prominent notice with each copy of the work that the
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during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

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

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

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

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.

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.

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Version 3, 29 June 2007

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An "Application" is any work that makes use of an interface provided
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of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an
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The "Minimal Corresponding Source" for a Combined Work means the
Corresponding Source for the Combined Work, excluding any source code
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2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

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b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.


The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

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e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)


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When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these 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 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.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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

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

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

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

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

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

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

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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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.

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

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

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1.1150 wso2-carbon-registry-search-stub

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<td>apache2</td>
<td>15490</td>
</tr>
</tbody>
</table>
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### 1.1159 wso2-carbon-governance-common

#### 4.7.27

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/*
package org.antlr.codegen;

import org.antlr.analysis.*;
import org.antlr.misc.Utils;
import org.antlr.stringtemplate.StringTemplate;
import org.antlr.stringtemplate.StringTemplateGroup;
import java.util.List;

public class ACyclicDFACodeGenerator {
protected CodeGenerator parentGenerator;

public ACyclicDFACodeGenerator(CodeGenerator parent) {
this.parentGenerator = parent;
}

public StringTemplate genFixedLookaheadDecision(StringTemplateGroup templates, DFA dfa)
{
    return walkFixedDFAGeneratingStateMachine(templates, dfa, dfa.startState, 1);
}

protected StringTemplate walkFixedDFAGeneratingStateMachine(
StringTemplateGroup templates,
DFA dfa,
DFAState s,
int k)
{
    //System.out.println("walk "+s.stateNumber+" in dfa for decision "+dfa.decisionNumber);
    if ( s.isAcceptState() ) {
        StringTemplate dfaST = templates.getInstanceOf("dfaAcceptState");
        dfaST.setAttribute("alt", Utilities.integer(s.getUniquelyPredictedAlt()));
        return dfaST;
    }

    // the default templates for generating a state and its edges
    // can be an if-then-else structure or a switch
    String dfaStateName = "dfaState";
    String dfaLoopbackStateName = "dfaLoopbackState";
    String dfaOptionalBlockStateName = "dfaOptionalBlockState";
    String dfaEdgeName = "dfaEdge";
    if ( parentGenerator.canGenerateSwitch(s) ) {
        dfaStateName = "dfaStateSwitch";
        dfaLoopbackStateName = "dfaLoopbackStateSwitch";
        dfaOptionalBlockStateName = "dfaOptionalBlockStateSwitch";
        dfaEdgeName = "dfaEdgeSwitch";
    }

    StringTemplate dfaST = templates.getInstanceOf(dfaStateName);
    if ( dfa.getNFADecisionStartState().decisionStateType==NFAState.LOOPBACK ) {
        dfaST = templates.getInstanceOf(dfaLoopbackStateName);
    }
    else if ( dfa.getNFADecisionStartState().decisionStateType==NFAState.OPTIONAL_BLOCK_START ) {
        dfaST = templates.getInstanceOf(dfaOptionalBlockStateName);
    }
    dfaST.setAttribute("k", Utilities.integer(k));
    dfaST.setAttribute("stateNumber", Utilities.integer(s.stateNumber));
    dfaST.setAttribute("semiPredState",
        Boolean.valueOf(s.isResolvedWithPredicates()));

    /*
    String description = dfa.getNFADecisionStartState().getDescription();
    description = parentGenerator.target.getTargetStringLiteralFromString(description);
    //System.out.println("DFA: "+description+" associated with AST "+dfa.getNFADecisionStartState());
    if ( description!=null ) {
        dfaST.setAttribute("description", description);
    }
    */

    int EOTPredicts = NFA.INVALID_ALT_NUMBER;
    DFAState EOTTarget = null;
    //System.out.println("DFA state "+s.stateNumber);
    for (int i = 0; i < s.getNumberOfTransitions(); i++) {
        Transition edge = (Transition) s.transition(i);
        //...
//System.out.println("edge "+s.stateNumber+".-"+edge.label.toString()+"->"+edge.target.stateNumber);
if ( edge.label.getAtom()==Label.EOT ) {
    // don't generate a real edge for EOT; track alt EOT predicts
    // generate that prediction in the else clause as default case
    EOTTARGET = (DFAState)edge.target;
    EOTPredicts = EOTTARGET.getUniquelyPredictedAlt();
} /* System.out.println("DFA s"+s.stateNumber+" EOT goes to s"+
    edge.target.stateNumber+" predicates alt "+
    EOTPredicts);
*/
continue;
}
StringTemplate edgeST = templates.getInstanceOf(dfaEdgeName);
// If the template wants all the label values delineated, do that
if ( edgeST.getFormalArgument("labels")!=null ) {
    List labels = edge.label.getSet().toList();
    for (int j = 0; j < labels.size(); j++) {
        Integer vI = (Integer) labels.get(j);
        String label =
        parentGenerator.getTokenTypeAsTargetLabel(vI.intValue());
        labels.set(j, label); // rewrite List element to be name
    }
    edgeST.setAttribute("labels", labels);
}
else { // else create an expression to evaluate (the general case)
    edgeST.setAttribute("labelExpr",
    parentGenerator.genLabelExpr(templates,edge,k));
}

// stick in any gated predicates for any edge if not already a pred
if ( !edge.label.isSemanticPredicate() ) {
    DFAState target = (DFAState)edge.target;
    SemanticContext preds =
    target.getGatedPredicatesInNFAConfigurations();
    if ( preds!=null ) {
        //System.out.println("preds="+target.getGatedPredicatesInNFAConfigurations());
        StringTemplate predST = preds.genExpr(parentGenerator,
            parentGenerator.getTemplates(),
            dfa);
        edgeST.setAttribute("predicates", predST);
    }
}
}

StringTemplate targetST =
walkFixedDFAGeneratingStateMachine(templates,
    dfa,
    (DFAState)edge.target,
k+1);
edgeST.setAttribute("targetState", targetST);
dfaST.setAttribute("edges", edgeST);
/*
System.out.println("back to DFA "+
   dfa.decisionNumber+"."+s.stateNumber);
*/
}

// HANDLE EOT EDGE
if ( EOTPredicts!=NFA.INVALID_ALT_NUMBER ) {
   // EOT unique predicts an alt
dfaST.setAttribute("eotPredictsAlt", Utils.integer(EOTPredicts));
}
else if ( EOTTarget!=null && EOTTarget.getNumberOfTransitions()>0 ) {
   // EOT state has transitions so must split on predicates.
   // Generate predicate else-if clauses and then generate
   // NoViableAlt exception as else clause.
   // Note: these predicates emanate from the EOT target state
   // rather than the current DFAState s so the error message
   // might be slightly misleading if you are looking at the
   // state number. Predicates emanating from EOT targets are
   // hoisted up to the state that has the EOT edge.
   for (int i = 0; i < EOTTarget.getNumberOfTransitions(); i++) {
      Transition predEdge = (Transition)EOTTarget.transition(i);
      StringTemplate edgeST = templates.getInstanceOf(dfaEdgeName);
      edgeST.setAttribute("labelExpr",
         parentGenerator.genSemanticPredicateExpr(templates,predEdge));
      // the target must be an accept state
      //System.out.println("EOT edge");
      StringTemplate targetST =
         walkFixedDFAGeneratingStateMachine(templates,
            dfa,
            (DFAState)predEdge.target,
            k+1);
      edgeST.setAttribute("targetState", targetST);
dfaST.setAttribute("edges", edgeST);
   }
}
return dfaST;
}
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      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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* which handles inbound and outbound operations.
* But the most useful for developers may be:
  * {@link ChannelInboundHandlerAdapter} handles and intercepts inbound operations
  * {@link ChannelOutboundHandlerAdapter} handles and intercepts outbound operations
* 
* You will also find more detailed explanation from the documentation of
* each sub-interface on how an event is interpreted when it goes upstream and
* downstream respectively.
* 
* <h3>The context object</h3>
* 
* A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext} object. A {@link ChannelHandler} is supposed to interact with the
* {@link ChannelPipeline} it belongs to via a context object. Using the
* context object, the {@link ChannelHandler} can pass events upstream or
* downstream, modify the pipeline dynamically, or store the information
* (using {@link AttributeKey}s) which is specific to the handler.
* 
* <h3>State management</h3>
* 
* A {@link ChannelHandler} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* 
* ```java
* public interface Message {
*     // your methods here
* }
* 
* public class DataServerHandler extends SimpleChannelInboundHandler<
*     public interface Message {
* }
* 
*     private boolean loggedIn;
* 
*     @Override
*     public void channelRead0(@link ChannelHandlerContext) ctx, Message message) {
*         @link Channel} ch = e.getChannel();
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             loggedIn = true;
*         } else (message instanceof GetDataMessage) {
*             if (loggedIn) {
*                 ch.write(fetchSecret((GetDataMessage) message));
*             } else {
*                 fail();
*             }
*         }
*     }
* ```
Because the handler instance has a state variable which is dedicated to
one connection, you have to create a new handler instance for each new
channel to avoid a race condition where a unauthenticated client can get
the confidential information:

```java
// Create a new handler instance per channel.
// See \{@link ChannelInitializer\#initChannel(\{Channel\})\}.
public class DataServerInitializer extends \{@link ChannelInitializer\\}&lt;\{@link Channel\}\&gt; {  
  \{@code @Override\}  
  public void initChannel(\{@link Channel\} channel) {  
    channel.pipeline().addLast("handler", new DataServerHandler());  
  }  
}  
```

<h4>Using \{@link AttributeKey\}</h4>

Although it's recommended to use member variables to store the state of a
handler, for some reason you might not want to create many handler instances.
In such a case, you can use \{@link AttributeKey\}s which is provided by
\{@link ChannelHandlerContext\}:

```java
public class DataServerHandler extends \{@link SimpleChannelInboundHandler\}&lt;Message\&gt; {  
  private final \{@link AttributeKey\}&lt;\{link Boolean\}\&gt; auth = \{  
    \{@link AttributeKey\#valueOf\{String\} AttributeKey.valueOf("auth")\};  
  }  
  \{@code @Override\}  
  public void channelRead(\{@link ChannelHandlerContext\} ctx, Message message) {  
    \{@link Attribute\}&lt;\{@link Boolean\}\&gt; attr = ctx.attr(auth);  
    \{@link Channel\} ch = ctx.channel();  
    if (message instanceof LoginMessage) {  
      authenticate((LoginMessage) o);  
      \{b\}attr.set(true)\{/b\};  
    } else (message instanceof GetDataMessage) {  
      if \{b\}Boolean.TRUE.equals(attr)(\{/b\}) {  
        ch.write(fetchSecret((GetDataMessage) o));  
      } else {  
        fail();  
      }  
    }  
  }
```
Now that the state of the handler is attached to the \{@link ChannelHandlerContext\}, you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends \{\@link ChannelInitializer\} \{\@link Channel\} \{?

private static final DataServerHandler \texttt{SHARED} = new DataServerHandler();

\{
\@code \@Override
public void initChannel(\{\@link Channel\} channel) { channel.pipeline().addLast("handler", \texttt{SHARED});
\}
\}

</pre>

<h4>The \texttt{\@Sharable} annotation</h4>

In the example above which used an \{\@link AttributeKey\}, you might have noticed the \texttt{\@Sharable} annotation.

If a \{\@link ChannelHandler\} is annotated with the \texttt{\@Sharable} annotation, it means you can create an instance of the handler just once and add it to one or more \{\@link ChannelPipeline\}s multiple times without a race condition.

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

This annotation is provided for documentation purpose, just like \texttt{\@Sharable}.

Please refer to the \{\@link ChannelHandler\}, and \{\@link ChannelPipeline\} to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

Found in path(s):

/opt/ws_local/PERMITS_SQL/1069395265_1594653408.7/0/netty-transport-4-0-39-final-sources-1-jar/io/netty/channel/ChannelHandler.java
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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd

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1.1188 jgrapht-core 0.9.0

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1.1189 wso2-carbon-feature-mgt-ui 4.4.35

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Open Source Used In Connected-Pharma 1.5-UI & ServiceLayer

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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
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SampleServlet
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The Apache Software Foundation (http://www.apache.org/).
package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

package RESOURCE

import ("github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
    q, err := gophercloud.BuildQueryString(opts)
    return q.String(), err
// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
    if opts != nil {
        query, err := opts.ToResourceListQuery()
        if err != nil {
            return pagination.Pager{Err: err}
        }
        url += query
    }
        return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
    })
}

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    resp, err := client.Get(getURL(client, id), &r.Body, nil)
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    resp, err := client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: jint(201),
    })
// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    resp, err := client.Delete(deleteURL(client, id), nil)
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    resp, err := client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

Step 1: Read Our Guides
========================

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING]/.github/CONTRIBUTING.md]: The Contributing guide is a detailed
document which describes the different ways you can contribute to Gophercloud
and how to get started. This tutorial you're reading is very similar to that
guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

Step 7: Congratulations!

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

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

Step 3: Code Hunting

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

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621). In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package.

Meaning, we want to change:

```go
type Network struct {
    ID        string `json:"id"
    Name      string `json:"name"
    AdminStateUp bool `json:"admin_state_up"
    Status    string `json:"status"
    Subnets   []string `json:"subnets"
    TenantID  string `json:"tenant_id"
    Shared    bool `json:"shared"
}
```

...to look like

```go
type Network struct {
    ID        string `json:"id"
    Name      string `json:"name"
```
AdminStateUp    bool    `json:"admin_state_up"`
Status          string  `json:"status"`
Subnets        []string `json:"subnets"`
TenantID       string   `json:"tenant_id"`
Shared          bool     `json:"shared"

AvailabilityZoneHints []string `json:"availability_zone_hints"
}
```

We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/).

However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying that the API docs aren't useful or that the contributors who work on the API docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[]string`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:
OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

`/*
Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/
package RESOURCE
package testing

import (  "fmt"  "net/http"  "testing"  "github.com/gophercloud/gophercloud/openstack/service/vN/resources"  th "github.com/gophercloud/gophercloud/testhelper"
const ListResult = `{
`

const GetResult = `{
`

const CreateRequest = `{
`

const UpdateRequest = `{
`

const UpdateResult = `{
`

var FirstResource = resources.Resource{} 

var SecondResource = resources.Resource{} 

var SecondResourceUpdated = resources.Resource{} 

var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource} 

func HandleListResourceSuccessfully(t *testing.T) {

th.Mux.HandleFunc("/resources", func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "GET")
    th.TestHeader(t, r, "Accept", "application/json")
    th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

    w.Header().Set("Content-Type", "application/json")
    w.WriteHeader(http.StatusOK)
    fmt.Fprintf(w, ListResult)
})

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc("/resources", func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, CreateRequest)

        w.WriteHeader(http.StatusCreated)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "DELETE")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.WriteHeader(http.StatusNoContent)
    })
}
// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "PATCH")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
th.TestJSONRequest(t, r, UpdateRequest)
w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, UpdateResult)
})
}

package testing

import (
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

func TestListResources(t *testing.T) {
th.SetupHTTP()
defer th.TeardownHTTP()
HandleListResourcesSuccessfully(t)

    count := 0
count++

        actual, err := resources.ExtractResources(page)
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)

        return true, nil
    })
th.AssertNoErr(t, err)
th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
th.SetupHTTP()
defer th.TeardownHTTP()
HandleListResourcesSuccessfully(t)

    func TestListResourcesAllPages(t *testing.T) {
        th.SetupHTTP()
        defer th.TeardownHTTP()
        HandleListResourcesSuccessfully(t)
    }

    count := 0

        actual, err := resources.ExtractResources(page)
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)

        return true, nil
    })

    count++

        actual, err := resources.ExtractResources(page)
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)

        return true, nil
    })

    th.AssertNoErr(t, err)
th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)
allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
actual, err := resources.ExtractResources(allPages)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleGetResourceSuccessfully(t)

    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleCreateResourceSuccessfully(t)

    createOpts := resources.CreateOpts{
        Name: "resource two",
    }

    actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
    th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)

    res := resources.Delete(client.ServiceClient(), "9fe1d3")
    th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleUpdateResourceSuccessfully(t)

    updateOpts := resources.UpdateOpts{
        Description: "Staging Resource",
    }

Step 4: Acceptance Testing

If we haven’t started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don’t have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you’ve confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

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Step 2: Create an Issue

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:
* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
* https://github.com/gophercloud/gophercloud/issues/647

Feature Request
---------------

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is to start a discussion about whether or not the feature should be included in Gophercloud. We don't want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The “core” of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658
There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much
appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

Step 6: Code Review

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.

3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and
Ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review
---------------------

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used.

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes
-------------------

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal
-------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.
Please don’t take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

Contributor Tutorial

This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we’re very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// RESOURCE represents...
type Resource struct {
}

type commonResult struct {
gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method to interpret it as a RESOURCE.
type GetResult struct {
    commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method to interpret it as a RESOURCE.
type CreateResult struct {
    commonResult
}
// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
type DeleteResult struct {
  gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
  commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
  pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
  resources, err := ExtractResources(r)
  return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
  var s struct {
    Links struct {
      Next     string `json:"next"`
      Previous string `json:"previous"`
    } `json:"links"`
  }
  err := r.ExtractInto(&s)
  if err != nil {
    return "", err
  }
  return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
  var s struct {
    Resources []Resource `json:"resources"`
  }
  err := r.(ResourcePage).ExtractInto(&s)
  return s.Resources, err
}
func (r commonResult) Extract() (*Resource, error) {
    var s struct {
        Resource *Resource `json:"resource"
    }
    err := r.ExtractInto(&s)
    return s.Resource, err
}

Step 5: Writing the Code
========================

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the
[CONTRIBUTING](https://github.com/gophercloud/gophercloud/blob/master/CONTRIBUTING.md) guide again as a refresh. Notably
the [Getting Started](https://github.com/gophercloud/gophercloud/blob/master/CONTRIBUTING.md#getting-started) section will
help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples
of similar implementations. It would be a _very_ rare occurrence for you
to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and
logic.

Types of Pull Requests
----------------------

The amount of changes you plan to make will determine how much code you should
submit as Pull Requests.

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and
submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See
[#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of
this.

If you plan to add more than one missing field, you will need to open a Pull
Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* https://github.com/gophercloud/gophercloud/pull/584
* https://github.com/gophercloud/gophercloud/pull/586
* https://github.com/gophercloud/gophercloud/pull/587
* https://github.com/gophercloud/gophercloud/pull/594

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request

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

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.
### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're testing with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

### Dealing with Related Pull Requests

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
```
Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```
```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child Pull Requests based off of the parent.

The choice of method is up to you.
Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

**1.1191 dns 1.1.30**

**1.1191.1 Available under license:**

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1.1192 xz 5.2.4-3.el8

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=head1 NAME

Digest - Modules that calculate message digests

=head1 SYNOPSIS

$md5  = Digest->new("MD5");
$sha1 = Digest->new("SHA-1");
$sha256 = Digest->new("SHA-256");
$sha384 = Digest->new("SHA-384");
$sha512 = Digest->new("SHA-512");

$hmac = Digest->HMAC_MD5($key);

=head1 DESCRIPTION

The C<Digest::> modules calculate digests, also called "fingerprints" or "hashes", of some data, called a message. The digest is (usually) some small/fixed size string. The actual size of the digest depend of the algorithm used. The message is simply a sequence of arbitrary bytes or bits.

An important property of the digest algorithms is that the digest is
I<likely> to change if the message change in some way. Another property is that digest functions are one-way functions, that is it should be I<hard> to find a message that correspond to some given digest. Algorithms differ in how "likely" and how "hard", as well as how efficient they are to compute.

Note that the properties of the algorithms change over time, as the algorithms are analyzed and machines grow faster. If your application for instance depends on it being "impossible" to generate the same digest for a different message it is wise to make it easy to plug in stronger algorithms as the one used grow weaker. Using the interface documented here should make it easy to change algorithms later.

All C<Digest::> modules provide the same programming interface. A functional interface for simple use, as well as an object oriented interface that can handle messages of arbitrary length and which can read files directly.

The digest can be delivered in three formats:

=over 8

=item I<binary>

This is the most compact form, but it is not well suited for printing or embedding in places that can't handle arbitrary data.

=item I<hex>

A twice as long string of lowercase hexadecimal digits.

=item I;base64

A string of portable printable characters. This is the base64 encoded representation of the digest with any trailing padding removed. The string will be about 30% longer than the binary version. L<MIME::Base64> tells you more about this encoding.

=back

The functional interface is simply importable functions with the same name as the algorithm. The functions take the message as argument and return the digest. Example:

use Digest::MD5 qw(md5);
$digest = md5($message);
There are also versions of the functions with ".hex" or ".base64" appended to the name, which returns the digest in the indicated form.

=head1 OO INTERFACE

The following methods are available for all C<Digest::> modules:

=over 4

=item $ctx = Digest->XXX($arg,...)

=item $ctx = Digest->new(XXX => $arg,...)

=item $ctx = Digest::XXX->new($arg,...)

The constructor returns some object that encapsulate the state of the message-digest algorithm. You can add data to the object and finally ask for the digest. The "XXX" should of course be replaced by the proper name of the digest algorithm you want to use.

The two first forms are simply syntactic sugar which automatically load the right module on first use. The second form allow you to use algorithm names which contains letters which are not legal perl identifiers, e.g. "SHA-1". If no implementation for the given algorithm can be found, then an exception is raised.

If new() is called as an instance method (i.e. $ctx->new) it will just reset the state the object to the state of a newly created object. No new object is created in this case, and the return value is the reference to the object (i.e. $ctx).

=item $other_ctx = $ctx->clone

The clone method creates a copy of the digest state object and returns a reference to the copy.

=item $ctx->reset

This is just an alias for $ctx->new.

=item $ctx->add( $data )

=item $ctx->add( $chunk1, $chunk2, ... )

The string value of the $data provided as argument is appended to the message we calculate the digest for. The return value is the $ctx object itself.
If more arguments are provided then they are all appended to the message, thus all these lines will have the same effect on the state of the $ctx object:

```perl
$ctx->add("a"); $ctx->add("b"); $ctx->add("c");
$ctx->add("a")->add("b")->add("c");
$ctx->add("a", "b", "c");
$ctx->add("abc");
```

Most algorithms are only defined for strings of bytes and this method might therefore croak if the provided arguments contain chars with ordinal number above 255.

```perl
=item $ctx->addfile( $io_handle )
```

The $io_handle is read until EOF and the content is appended to the message we calculate the digest for. The return value is the $ctx object itself.

The addfile() method will croak() if it fails reading data for some reason. If it croaks it is unpredictable what the state of the $ctx object will be in. The addfile() method might have been able to read the file partially before it failed. It is probably wise to discard or reset the $ctx object if this occurs.

In most cases you want to make sure that the $io_handle is in "binmode" before you pass it as argument to the addfile() method.

```perl
=item $ctx->add_bits( $data, $nbits )
=item $ctx->add_bits( $bitstring )
```

The add_bits() method is an alternative to add() that allow partial bytes to be appended to the message. Most users should just ignore this method as partial bytes is very unlikely to be of any practical use.

The two argument form of add_bits() will add the first $nbits bits from $data. For the last potentially partial byte only the high order C<< $nbits % 8 >> bits are used. If $nbits is greater than C<< length($data) * 8 >>, then this method would do the same as C<< $ctx->add($data) >>.

The one argument form of add_bits() takes a $bitstring of "1" and "0" chars as argument. It's a shorthand for C<< $ctx->add_bits(pack("B*", $bitstring), length($bitstring)) >>.

The return value is the $ctx object itself.
This example shows two calls that should have the same effect:

```perl
$ctx->add_bits("111100001010");
$ctx->add_bits("\xF0\xA0", 12);
```

Most digest algorithms are byte based and for these it is not possible to add bits that are not a multiple of 8, and the add_bits() method will croak if you try.

=item $ctx->digest

Return the binary digest for the message.

Note that the C<digest> operation is effectively a destructive, read-once operation. Once it has been performed, the $ctx object is automatically C<reset> and can be used to calculate another digest value. Call $ctx->clone->digest if you want to calculate the digest without resetting the digest state.

=item $ctx->hexdigest

Same as $ctx->digest, but will return the digest in hexadecimal form.

=item $ctx->b64digest

Same as $ctx->digest, but will return the digest as a base64 encoded string.

=head1 Digest speed

This table should give some indication on the relative speed of different algorithms. It is sorted by throughput based on a benchmark done with of some implementations of this API:

<table>
<thead>
<tr>
<th>Algorithm</th>
<th>Size</th>
<th>Implementation</th>
<th>MB/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>MD4</td>
<td>128</td>
<td>Digest::MD4 v1.3</td>
<td>165.0</td>
</tr>
<tr>
<td>MD5</td>
<td>128</td>
<td>Digest::MD5 v2.33</td>
<td>98.8</td>
</tr>
<tr>
<td>SHA-256</td>
<td>256</td>
<td>Digest::SHA2 v1.1.0</td>
<td>66.7</td>
</tr>
<tr>
<td>SHA-1</td>
<td>160</td>
<td>Digest::SHA v4.3.1</td>
<td>58.9</td>
</tr>
<tr>
<td>SHA-1</td>
<td>160</td>
<td>Digest::SHA1 v2.10</td>
<td>48.8</td>
</tr>
<tr>
<td>SHA-256</td>
<td>256</td>
<td>Digest::SHA v4.3.1</td>
<td>41.3</td>
</tr>
<tr>
<td>Haval-256</td>
<td>256</td>
<td>Digest::Haval256 v1.0.4</td>
<td>39.8</td>
</tr>
<tr>
<td>SHA-384</td>
<td>384</td>
<td>Digest::SHA2 v1.1.0</td>
<td>19.6</td>
</tr>
<tr>
<td>SHA-512</td>
<td>512</td>
<td>Digest::SHA2 v1.1.0</td>
<td>19.3</td>
</tr>
<tr>
<td>Algorithm</td>
<td>Digest::</td>
<td>Version</td>
<td>Time (s)</td>
</tr>
<tr>
<td>------------</td>
<td>----------</td>
<td>-----------</td>
<td>----------</td>
</tr>
<tr>
<td>SHA-384</td>
<td>Digest::SHA v4.3.1</td>
<td>19.2</td>
<td></td>
</tr>
<tr>
<td>SHA-512</td>
<td>Digest::SHA v4.3.1</td>
<td>19.2</td>
<td></td>
</tr>
<tr>
<td>Whirlpool</td>
<td>Digest::Whirlpool v1.0.2</td>
<td>13.0</td>
<td></td>
</tr>
<tr>
<td>MD2</td>
<td>Digest::MD2 v2.03</td>
<td>9.5</td>
<td></td>
</tr>
<tr>
<td>Adler-32</td>
<td>Digest::Adler32 v0.03</td>
<td>1.3</td>
<td></td>
</tr>
<tr>
<td>CRC-16</td>
<td>Digest::CRC v0.05</td>
<td>1.1</td>
<td></td>
</tr>
<tr>
<td>CRC-32</td>
<td>Digest::CRC v0.05</td>
<td>1.1</td>
<td></td>
</tr>
<tr>
<td>MD5</td>
<td>Digest::Perl::MD5 v1.5</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>CRC-CCITT</td>
<td>Digest::CRC v0.05</td>
<td>0.8</td>
<td></td>
</tr>
</tbody>
</table>

These numbers were achieved Apr 2004 with ActivePerl-5.8.3 running under Linux on a P4 2.8 GHz CPU. The last 5 entries differ by being pure Perl implementations of the algorithms, which explains why they are so slow.

=head1 SEE ALSO

L<Digest::Adler32>, L<Digest::CRC>, L<Digest::Haval256>,
L<Digest::HMAC>, L<Digest::MD2>, L<Digest::MD4>, L<Digest::MD5>,
L<Digest::SHA>, L<Digest::SHA1>, L<Digest::SHA2>, L<Digest::Whirlpool>

New digest implementations should consider subclassing from L<Digest::base>.

L<MIME::Base64>

http://en.wikipedia.org/wiki/Cryptographic_hash_function

=head1 AUTHOR

Gisle Aas <gisle@aas.no>

The C<Digest::> interface is based on the interface originally developed by Neil Winton for his C<MD5> module.

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 */
package org.apache.cxf.rs.security.oauth.data;

/**
 * Base permission description which is visible to
 * authorization handlers
 * @see OAuthAuthorizationData
 */
public class Permission {
    private String permission;
    private String description;
    private boolean isDefault;

    public Permission() {
    }

    public Permission(String permission, String description) {
        this.description = description;
        this.permission = permission;
    }

    public String getDescription() {
        return description;
    }

    public void setDescription(String description) {
        this.description = description;
    }

    public String getPermission() {
        return permission;
    }

    public void setPermission(String permission) {
        this.permission = permission;
    }

    /**
     * Indicates that this permission has been allocated by default.
     * Authorization View handlers may use this property in order to restrict
     * the list of scopes which may be refused to non-default scopes only
     * @param isDefault
     */
    public void setDefault(boolean value) {
        this.isDefault = value;
    }

    public boolean isDefault() {
        return isDefault;
    }
}
    return isDefault;
    }
}

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     */

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    * /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/FormatString.java
    * /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/DoNotMock.java
    * /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/CompatibleWith.java
    * /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/RestrictedApi.java
    * /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/MustBeClosed.java
    * /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/FormatMethod.java

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* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/DoNotCall.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/concurrent/GuardedBy.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/CheckReturnValue.java

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* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/Immutable.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/ForOverride.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/CheckReturnValue.java

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jar/com/google/errorprone/annotations/Var.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
jar/com/google/errorprone/annotations/SuppressPackageLocation.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
jar/com/google/errorprone/annotations/IncompatibleModifiers.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
jar/com/google/errorprone/annotations/CompileTimeConstant.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
jar/com/google/errorprone/annotations/concurrent/LazyInit.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
jar/com/google/errorprone/annotations/concurrent/LockMethod.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
jar/com/google/errorprone/annotations/NoAllocation.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
jar/com/google/errorprone/annotations/RequiredModifiers.java

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5.1.42

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1.1230 uilive 2.6.0

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# Jackson JSON processor

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

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Open Source Used in Connected-Pharma 1.5-UI & ServiceLayer

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## Open Source Used In Connected-Pharma 1.5-UI & ServiceLayer

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- siddhi-extension-time_3.2.3.jar
- siddhi-query-api_3.2.3.jar
- siddhi-query-compiler_3.2.3.jar
- slf4j-api_1.7.25.jar
- slf4j-log4j12_1.7.25.jar
- slf4j-api_1.6.1.jar
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- slf4j-api_1.7.21.jar
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- snakeyaml_1.16.0.wso2v1.jar
- solr_5.2.1.wso2v1.jar
- spatial4j_0.4.1.wso2v1.jar
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- spring-core-3.2.18.RELEASE.jar
- spring-expression-3.2.18.RELEASE.jar
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- step2-consumer-1.0.0.wso2v2.jar
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- synapse-tasks_2.1.7.wso2v80.jar
- tcpmon-1.0.jar
- tiles-jsp_2.0.5.wso2v1.jar
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1.1.20

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- com/lowagie/text/pdf/LZWDecoder.java (first appearance in iText: 2002-02-08)

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FYI: Brian also added: "A bit of history might be in order. The codec classes that you used originally were based on some classes included with JAI but not strictly part of JAI. As of Java SE 1.4 an official Image I/O framework was added in javax.imageio.... This framework supports these formats:

Java 1.4: GIF (read only), JPEG, PNG
Java 1.5: Added support for BMP and WBMP
Java 1.6: Added support for writing GIF

The JAI Image I/O Tools packages (jai-imageio-core) were created to support formats handled by JAI but not included in Java SE as well as some new things like JPEG2000."

(4) the file com/lowagie/text/pdf/codec/TIFFConstants
and some other TIFF related code is derived from LIBTIFF:

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3.6.1/google/protobuf/internal/api_implementation.cc
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1.1255 httpasyncclient 4.1.3

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1.1264 wso2-carbon-mediator-fastxslt 4.6.105

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abstract: 'Build and install Perl modules'

author:
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attach them to the start of each source file to most effectively convey
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"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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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
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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:

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

That's all there is to it!
#!perl

=head1 NAME
copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' } 

if ( $Config{usecrosscompile} ) { 
  skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();


# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
  my $current_year = (gmtime)[5] + 1900;
  is $v_year, $current_year, 'perl -v copyright includes current year';
  is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
  is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
  open my $readme, '<', '../README' or die "Opening README failed: $!'';

  # The copyright message is the first paragraph:
  local $/ = '';
  my $copyright_msg = <$readme>;
  my ($year) = $copyright_msg =~ /.*\d{4,}/s
    or die "Year not found in README copyright message \'$copyright_msg'';  

  $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
  my $output = runperl switches => ['-v'];
  my ($year) = $output =~ /copyright 1987.*\b\d{4,}/i
    or die "Copyright statement not found in perl -v output $output'';

  $year;
}
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documentation, are copyright (C) 1996-2010 Julian R Seward. All
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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<signature of Ty Coon>, 1 April 1989
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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

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

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

The precise terms and conditions for copying, distribution and
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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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.

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

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

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
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Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

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

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

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

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.

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- the GNU.Gettext.dll C# library,
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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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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.

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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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
Open Source Used In Connected-Pharma 1.5-UI & ServiceLayer 12304

Modifications: Added cronjob, configuration file, and man pages.

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distribution or on the World Wide Web at
http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html. You can also
obtain it by writing to the Free Software Foundation, Inc., 51
Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

CrackLib was originally licensed with a variant of the Artistic
license. In the interests of wider acceptance and more modern
licensing, it was switched with the original author's blessing to GPL
v2.

This approval was carried out in email discussions in 2005, and has
been reconfirmed as of 2007-10-01 with the following email from Alec
Muffett. Cracklib's license was changed from the GPL to the LGPL after
consensus of all previous developers in October 2008, effective with
release 2.8.15 released on 2009-11-19. See the email discussion below
for both license changes.

-------------------------------------
-----------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
in released code until Nov 2009 - slow release cycle...)
-----------

Discussion thread from mailing list archive, with approval from everyone actively
involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
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GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

Re: [Cracklib-devel] cracklib license
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=20
------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li... [mailto:cracklib-devel-bounces@li...]
> On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
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Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

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the original license (before moving to sourceforge -- aka, 2.7) was not GPL-2 ... it was a modified artistic license ... i didn't notice the license change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which IMO is just wrong. It isn't the place of the library to dictate to application writers what license they should be using. Thus LGPL-2.1 enters to fill this void.

=Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme you all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing you all come up with is fine by me.

-- Nathan

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
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> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
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> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
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> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.
Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
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> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
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looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now?
-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
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> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now?
> >
> yes. go for it. thanks++
Nathan Neulinger is the only one who can actually make said change ...
-mike

-----------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
-----------

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
   by scanin-ipv5.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
   by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
   for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
   by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
   for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
   by rutherford.zen.co.uk with esmtp (Exim 4.50)
   id 1IcOcX-0004Qt-6L
   for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
   <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>

Any chance you could write me a self-contained email stating clearly that the license is being changed to GPL, so I could include that email in the repository and clean up the repository/tarballs? I have all the original discussion, but something succinct and self contained would be ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

----------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
----------

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.
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GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

=2Dmike

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EMail: nneul@um...
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(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.

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> > > > by me.
I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:

In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike
CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
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for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
   by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
   by rutherford.zen.co.uk with esmtp (Exim 4.50)
   id 1M0cX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
   <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
   <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.1277 kryo-parent 3.0.3

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1.1278 concurrent-trees 2.6.0

1.1279 go-toml wso2-apimcli-1.2.0

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1.1280 guava 19.0
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Mon Aug 17 10:11:49 PDT 2020 Martin Fujitani <martinf@cisco.com>

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=head1 NAME
Mozilla::CA - Mozilla's CA cert bundle in PEM format

=head1 SYNOPSIS

use IO::Socket::SSL;
use Mozilla::CA;

my $host = "www.paypal.com";
my $client = IO::Socket::SSL->new(
    PeerHost => "$host:443",
    SSL_verify_mode => 0x02,
    SSL_ca_file => Mozilla::CA::SSL_ca_file(),
); || die "Can't connect: $@";

$client->verify_hostname($host, "http") || die "hostname verification failure";

=head1 DESCRIPTION
Mozilla::CA provides a copy of Mozilla's bundle of Certificate Authority certificates in a form that can be consumed by modules and libraries based on OpenSSL.

The module provide a single function:

=over
SSL_ca_file()

Returns the absolute path to the Mozilla's CA cert bundle PEM file.

SEE ALSO

L<http://curl.haxx.se/docs/caextract.html>

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NAME

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SYNOPSIS

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use Mozilla::CA;

my $host = "www.paypal.com";
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    PeerHost => "$host:443",
    SSL_verify_mode => 0x02,
    SSL_ca_file => Mozilla::CA::SSL_ca_file(),
)
|| die "Can't connect: $@";

$client->verify_hostname($host, "http")
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The module provides a single function:

SSL_ca_file()
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 */

package io.swagger.annotations;

import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
 * License metadata available within the info section of a Swagger definition, see
 * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
 * <p>
 * @since 1.5.0
 */

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {

/**
 * The name of the license.
 * <p>
 * @return the name of the license
 */
/*
 * String name();
 */

/**
 * An optional URL for the license.
 *
 * @return an optional URL for the license.
 */
String url() default "";
}

1.1293 wso2-carbon-event-input-adapter-kafka 5.1.42

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{{version}}OpenAPI spec version: {{version}}
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# * DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

-----------------------------------------------------------------------------
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1.1308 wso2-carbon-tenant-mgt-stub 4.6.15

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1.1312 libxau 1.0.9-3.el8

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* /opt/ws_local/PERMITS_SQL/1063698666_1593013365.37/0/vertx-web-3-9-1-sources-jar/io/vertx/ext/web
jar/io/vertx/ext/web/handler/FaviconHandler.java
* /opt/ws_local/PERMITS_SQL/1063698666_1593013365.37/0/vertx-web-3-9-1-sources-
jar/io/vertx/ext/web/handler/impl/TimeoutHandlerImpl.java
* /opt/ws_local/PERMITS_SQL/1063698666_1593013365.37/0/vertx-web-3-9-1-sources-
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* /opt/ws_local/PERMITS_SQL/1063698666_1593013365.37/0/vertx-web-3-9-1-sources-
jar/io/vertx/ext/web/handler/impl/RedirectAuthHandlerImpl.java
* /opt/ws_local/PERMITS_SQL/1063698666_1593013365.37/0/vertx-web-3-9-1-sources-
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* /opt/ws_local/PERMITS_SQL/1063698666_1593013365.37/0/vertx-web-3-9-1-sources-
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* /opt/ws_local/PERMITS_SQL/1063698666_1593013365.37/0/vertx-web-3-9-1-sources-
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* /opt/ws_local/PERMITS_SQL/1063698666_1593013365.37/0/vertx-web-3-9-1-sources-
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* /opt/ws_local/PERMITS_SQL/1063698666_1593013365.37/0/vertx-web-3-9-1-sources-
jar/io/vertx/ext/web/handler/ssockjs/SockJSHandlerOptions.java
* /opt/ws_local/PERMITS_SQL/1063698666_1593013365.37/0/vertx-web-3-9-1-sources-
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* /opt/ws_local/PERMITS_SQL/1063698666_1593013365.37/0/vertx-web-3-9-1-sources-
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1.1348 wso2-carbon-utils 4.4.35

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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## 1.1373 wso2-carbon-tenant-throttling-agent

### 4.6.15

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Version 2.1, February 1999

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import java.io.IOException;
import java.io.InputStream;

/**
 * Marker interface for OutputStreams that can directly support
 * copying from an input stream. OutputStreams that maintain their
 * own byte buffer or similar may be able to optimize the copy
 * instead of using the read/write into a temporary buffer that
 * the normal IOUtils.copy method requires.
 */
public interface CopyingOutputStream {

    int copyFrom(InputStream in) throws IOException;

}

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

* <h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt> for
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0
*
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>

* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* <b>lengthFieldOffset</b> = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b> = <b>3</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* | 0xCAFE  | 0x00000C | "HELLO, WORLD" |      | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive `<tt>lengthAdjustment</tt>` so that the decoder counts the extra header into the frame length calculation.

```plaintext
lengthFieldOffset = 0
lengthFieldLength = 3
<b>lengthAdjustment</b> = <b>2</b> (the length of Header 1)
initialBytesToStrip = 0

BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
+----------+----------+----------------+      +----------+----------+----------------+
|  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
| 0x00000C | 0xCAFE   | "HELLO, WORLD" |      | 0x00000C | 0xCAFE   | "HELLO, WORLD" |
+----------+----------+----------------+      +----------+----------+----------------+
</plaintext>

This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field. The prepended header affects the `<tt>lengthFieldOffset</tt>` and the extra header affects the `<tt>lengthAdjustment</tt>`. We also specified a non-zero `<tt>initialBytesToStrip</tt>` to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify `<tt>0</tt>` for `<tt>initialBytesToSkip</tt>`.

```plaintext
lengthFieldOffset = 1 (= the length of HDR1)
lengthFieldLength = 2
<b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
<b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)

BEFORE DECODE (16 bytes)                      AFTER DECODE (13 bytes)
+--------+--------+--------+----------------+      +--------+----------------+
| HDR1   | Length | HDR2   | Actual Content |----->| HDR2   | Actual Content |
| 0xCA   | 0x000C | 0xFE   | "HELLO, WORLD" |      | 0xFE   | "HELLO, WORLD" |
+--------+--------+--------+----------------+      +--------+----------------+
</plaintext>

This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field. The prepended header affects the `<tt>lengthFieldOffset</tt>` and the extra header affects the `<tt>lengthAdjustment</tt>`. We also specified a non-zero `<tt>initialBytesToStrip</tt>` to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify `<tt>0</tt>` for `<tt>initialBytesToSkip</tt>`.

```plaintext
lengthFieldOffset = 1 (= the length of HDR1)
lengthFieldLength = 2
<b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
<b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)

BEFORE DECODE (16 bytes)                      AFTER DECODE (13 bytes)
+--------+--------+--------+----------------+      +--------+----------------+
| HDR1   | Length | HDR2   | Actual Content |----->| HDR2   | Actual Content |
| 0xCA   | 0x000C | 0xFE   | "HELLO, WORLD" |      | 0xFE   | "HELLO, WORLD" |
+--------+--------+--------+----------------+      +--------+----------------+
</plaintext>

This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field. The prepended header affects the `<tt>lengthFieldOffset</tt>` and the extra header affects the `<tt>lengthAdjustment</tt>`.

```plaintext
lengthFieldOffset = 0
lengthFieldLength = 3
<b>lengthAdjustment</b> = <b>2</b> (the length of Header 1)
initialBytesToStrip = 0

BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
+----------+----------+----------------+      +----------+----------+----------------+
|  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
| 0x00000C | 0xCAFE   | "HELLO, WORLD" |      | 0x00000C | 0xCAFE   | "HELLO, WORLD" |
+----------+----------+----------------+      +----------+----------+----------------+
</plaintext>

This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive `<tt>lengthAdjustment</tt>` so that the decoder counts the extra header into the frame length calculation.

```plaintext
lengthFieldOffset = 0
lengthFieldLength = 3
<b>lengthAdjustment</b> = <b>2</b> (the length of Header 1)
initialBytesToStrip = 0

BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
+----------+----------+----------------+      +----------+----------+----------------+
|  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
| 0x00000C | 0xCAFE   | "HELLO, WORLD" |      | 0x00000C | 0xCAFE   | "HELLO, WORLD" |
+----------+----------+----------------+      +----------+----------+----------------+
</plaintext>

This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field. The prepended header affects the `<tt>lengthFieldOffset</tt>` and the extra header affects the `<tt>lengthAdjustment</tt>`.
Let's give another twist to the previous example. The only difference from the previous example is that the length field represents the length of the whole message instead of the message body, just like the third example. We have to count the length of HDR1 and Length into \texttt{lengthAdjustment}.

Please note that we don't need to take the length of HDR2 into account because the length field already includes the whole header length.

\begin{verbatim}
   \begin{tabular}{l}
   \hline
   lengthFieldOffset   =  1  \\
   lengthFieldLength   =  2  \\
   \textbf{lengthAdjustment}    = \textbf{-3} (= the length of HDR1 + LEN, negative)  \\
   \textbf{initialBytesToStrip} = \textbf{3}
   \\
   \hline
   \end{tabular}
\end{verbatim}

\begin{verbatim}
BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
\begin{tabular}{l}
\hline
| HDR1 | Length | HDR2 | Actual Content |
\hline
| 0xCA | 0x0010 | 0xFE | "HELLO, WORLD"
\hline
\end{tabular}
\end{verbatim}

\texttt{@see LengthFieldPrepender}

Found in path(s):

\texttt{/opt/ws_local/PERMITS_SQL/1069394819_1594653197.81/0/netty-codec-4.0.39-final-sources-1.jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java}

\subsection{1.1381 bcpkix-jdk15on 1.52}

\subsection{1.1382 wso2-carbon-tenant-mgt-ui 4.6.15}

\subsubsection{1.1382.1 Available under license :}

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Version 2.1, February 1999

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1.1386 perl 1.28-416.el8
1.1386.1 Available under license :

#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the
C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match
reality.

Optionally you can pass the C<--now> option to check they are at the current
year. This isn't checked by default, so that it doesn't fail for people
working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = "";
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ m\b\(\d{4,}\)/s
    or die "Year not found in README copyright message $copyright_msg";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
my $output = runperl switches => ['-v'];
my ($year) = $output =~ /copyright 1987.*(\d{4,})/i  
or die "Copyright statement not found in perl -v output '$output'";

$year;
}

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    <signature of Ty Coon>, 1 April 1989
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abstract: 'Build and install Perl modules'

author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\n  Module-Build mailing list at <module-build@perl.org>.'

build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49

generated_by: 'Module::Build version 0.3608'

license: gpl

meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4

name: Module-Build

resources:
  MailingList: mailto:module-build@perl.org
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  version: 3

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

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1.1390 antlr-runtime 4.5

1.1391 wso2-carbon-identity-application-authenticator-basicauth 6.0.6

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* /opt/ws_local/PERMITS_SQL/1068448904_1594399742.49/0/mvel2-2-3-1-final-sources-1-jar/org/mvel2/asm/commons/RemappingFieldAdapter.java
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 * [@link LocalVariableAnnotationNode(int, TypePath, LabelNode, LabelNode, int, String)] version.
 *
 * @param typeRef a reference to the annotated type. See [@link TypeReference].
 * @param typePath the path to the annotated type argument, wildcard bound, array
 * element type, or static inner type within `typeRef`. May be
 * <tt>null</tt> if the annotation targets `typeRef` as a whole.
 * @param start the first instructions corresponding to the continuous ranges
 * that make the scope of this local variable (inclusive).
 * @param end the last instructions corresponding to the continuous ranges
 * that make the scope of this local variable (exclusive). This
 * array must have the same size as the `start` array.
 * @param index the local variable's index in each range. This array must have
 * the same size as the `start` array.
 * @param desc the class descriptor of the annotation class.
 */

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* /opt/ws_local/PERMITS_SQL/1068448904_1594399742.49/0/mvel2-2-3-1-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068448904_1594399742.49/0/mvel2-2-3-1-final-sources-1-
jar/org/mvel2/asm/xml/Processor.java
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jar/org/mvel2/asm/xml/SAXFieldAdapter.java
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* /opt/ws_local/PERMITS_SQL/1068448904_1594399742.49/0/mvel2-2-3-1-final-sources-1.jar/org/mvel2/optimizers/impl/refl/nodes/DynamicFieldAccessor.java
* /opt/ws_local/PERMITS_SQL/1068448904_1594399742.49/0/mvel2-2-3-1-final-sources-1.jar/org/mvel2/optimizers/impl/refl/collection/ArrayCreator.java
* /opt/ws_local/PERMITS_SQL/1068448904_1594399742.49/0/mvel2-2-3-1-final-sources-1.jar/org/mvel2/optimizers/impl/refl/nodes/FieldAccessorNH.java
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* /opt/ws_local/PERMITS_SQL/1068448904_1594399742.49/0/mvel2-2-3-1-final-sources-1.jar/org/mvel2/optimizers/impl/refl/nodes/MapAccessorNest.java
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 * Creates a new JSRInliner. <i>Subclasses must not use this
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 * { @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
 * version.
 *
 * @param mv
 *            the <code>MethodVisitor</code> to send the resulting inlined
 *            method code to (use <code>null</code> for none).
 * @param access
 *            the method's access flags (see {@link Opcodes}). This
 *            parameter also indicates if the method is synthetic and/or
 *            deprecated.
 * @param name
 *            the method's name.
 * @param desc
 *            the method's descriptor (see {@link Type}).
 * @param signature
 *            the method's signature. May be <tt>null</tt>.
 * @param exceptions
 *            the internal names of the method's exception classes (see
 *            { @link Type#getInternalName()} getInternalName()). May be
 *            <tt>null</tt>.
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
 */

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  jar/org/mvel2/asm/commons/JSRInlinerAdapter.java
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/**
 * Constructs a new [@link Textifier]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [@link #Textifier(int)]
 * version.
 *
 * @throws IllegalStateException
 *     If a subclass calls this constructor.
 */

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 */

/**
 * 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):
*/

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* /opt/ws_local/PERMITS_SQL/1068448904_1594399742.49/0/mvel2-2-3-1-final-sources-1-
* jar/org/mvel2/asm/commons/GeneratorAdapter.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 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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* /opt/ws_local/PERMITS_SQL/1068448904_1594399742.49/0/mvel2-2-3-1-final-sources-1- jar/org/mvel2/conversion/StringCH.java
* /opt/ws_local/PERMITS_SQL/1068448904_1594399742.49/0/mvel2-2-3-1-final-sources-1- jar/org/mvel2/templates/util/ArrayIterator.java
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* /opt/ws_local/PERMITS_SQL/1068448904_1594399742.49/0/mvel2-2-3-1-final-sources-1- jar/org/mvel2/ast/IndexedPreFixDecNode.java
* /opt/ws_local/PERMITS_SQL/1068448904_1594399742.49/0/mvel2-2-3-1-final-sources-1- jar/org/mvel2/templates/res/CompiledIfNode.java
* /opt/ws_local/PERMITS_SQL/1068448904_1594399742.49/0/mvel2-2-3-1-final-sources-1- jar/org/mvel2/ast/WithNode.java
* /opt/ws_local/PERMITS_SQL/1068448904_1594399742.49/0/mvel2-2-3-1-final-sources-1- jar/org/mvel2/optimizers/impl/asm/ASMAccessorOptimizer.java
* /opt/ws_local/PERMITS_SQL/1068448904_1594399742.49/0/mvel2-2-3-1-final-sources-1- jar/org/mvel2/ast/IndexedDecITypedVarNode.java
* /opt/ws_local/PERMITS_SQL/1068448904_1594399742.49/0/mvel2-2-3-1-final-sources-1- jar/org/mvel2/ast/Contains.java
* /opt/ws_local/PERMITS_SQL/1068448904_1594399742.49/0/mvel2-2-3-1-final-sources-1- jar/org/mvel2/integration/ResolverTools.java
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/opt/ws_local/PERMITS_SQL/1068448904_1594399742.49/0/mvel2-2-3-1-final-sources-1-
jar/org/mvel2/asm/util/Textifiable.java
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https://github.com/google/go-github/ and
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BSON library for Go

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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# License - Operator HTTP API

-> **Enterprise Only!** This API endpoint and functionality only exists in Consul Enterprise. This is not present in the open source version of Consul.

The licensing functionality described here is available only in [Consul Enterprise](https://www.hashicorp.com/products/consul/) version 1.1.0 and later.

## Getting the Consul License

This endpoint gets information about the current license.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td>------</td>
<td>----------------------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td><code>GET</code></td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

The table below shows this endpoint's support for [blocking queries](/api/features/blocking.html), [consistency modes](/api/features/consistency.html), [agent caching](/api/features/caching.html), and
[required ACLs](#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>all</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` (string: `""`) - Specifies the datacenter whose license should be retrieved. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Request

```text
$ curl
   http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```json
{
  "Valid": true,
  "License": {
    "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
    "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
    "installation_id": "*",
    "issue_time": "2018-05-21T20:03:35.911567355Z",
    "start_time": "2018-05-21T04:00:00Z",
    "expiration_time": "2019-05-22T03:59:59.999Z",
    "product": "consul",
    "flags": {
      "package": "premium"
    },
    "features": [
      "Automated Backups",
      "Automated Upgrades",
      "Enhanced Read Scalability",
      "Network Segments",
      "Redundancy Zone",
      "Advanced Network Federation"
    ],
    "temporary": false
  },
  "Warnings": []
}
```
## Updating the Consul License

This endpoint updates the Consul license and returns some of the license contents as well as any warning messages regarding its validity.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>PUT</code></td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

The table below shows this endpoint's support for [blocking queries](/api/features/blocking.html), [consistency modes](/api/features/consistency.html), [agent caching](/api/features/caching.html), and [required ACLs](/api/index.html#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
<td><code>operator:write</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` (string: `""`) - Specifies the datacenter whose license should be updated. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Payload

The payload is the raw license blob.

### Sample Request

```
$ curl \
  --request PUT \
  --data @consul.license \
  http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```
{
  "Valid": true,
  "License": {
    "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
    "customer_id": "0259271d-8ffec-e85e-0830-c0822c1f5f2b",
    "installation_id": "*",
```
"issue_time": "2018-05-21T20:03:35.911567355Z",
"start_time": "2018-05-21T04:00:00Z",
"expiration_time": "2019-05-22T03:59:59.999Z",
"product": "consul",
"flags": {
    "package": "premium"
},
"features": [
    "Automated Backups",
    "Automated Upgrades",
    "Enhanced Read Scalability",
    "Network Segments",
    "Redundancy Zone",
    "Advanced Network Federation"
],
"temporary": false
},
"Warnings": []

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mgo - MongoDB driver for Go

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   */

/**
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   */

package datatypes

// no documentation yet
type Legal_RegulatedWorkload struct {
    Entity

    // no documentation yet
    Account *Account `json:"account,omitempty" xmlrpc:"account,omitempty"

    // no documentation yet
    AccountId *int `json:"accountId,omitempty" xmlrpc:"accountId,omitempty"`
// no documentation yet
EnabledFlag *bool `json:"enabledFlag,omitempty" xmlrpc:"enabledFlag,omitempty"

// no documentation yet
Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"

// no documentation yet
Type *Legal_RegulatedWorkload_Type `json:"type,omitempty" xmlrpc:"type,omitempty"

// no documentation yet
WorkloadTypeId *int `json:"workloadTypeId,omitempty" xmlrpc:"workloadTypeId,omitempty"

// no documentation yet
type Legal_RegulatedWorkload_Type struct {
  Entity
  // no documentation yet
  Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"

  // no documentation yet
  KeyName *string `json:"keyName,omitempty" xmlrpc:"keyName,omitempty"

  // no documentation yet
  Name *string `json:"name,omitempty" xmlrpc:"name,omitempty"
}

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>>> aws_sdk-go_aws-master
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>>> docker_go-events-aa2e3b613fbbfdddbe055a7b9e3ee271cfd83eca
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>>> agl_ed25519-master
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>>> boltbd_bolt-b514920f8f2e0a68f857e5a12c774385a59ae9
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>>> codegangsta_cli-master
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>>> curl-7.59.0-4.ph2
>>> expat-2.2.4-1.ph2
>>> iputils-20151218-4.ph2
>>> krb5-1.16-2.ph2
>>> libarchive-3.3.1-2.ph2
>>> libcap-2.25-7.ph2
>>> libdb-5.3.28-1.ph2
>>> libffi-3.2.1-5.ph2
>>> libspect-0.6.26-3.ph2
>>> libssh2-1.8.0-1.ph2
>>> libtirpc-1.0.1-8.ph2
>>> linux-pam-1.3.0-1.ph2
>>> lsof-4.89-2.ph2
>>> ncurses-6.0-14.ph2
>>> openssl-1.0.2q-1.ph2
>>> pcre-8.41-1.ph2
>>> popt-1.16-5.ph2
>>> shadow-4.2.1-16.ph2
>>> sqlite-3.22.0-3.ph2
>>> sudo-1.8.20p2-5.ph2
>>> vim-8.0.0533-6.ph2
>>> xz-5.2.3-2.ph2
>>> zlib-1.2.11-1.ph2

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>>> gcc-6.3.0-7.ph2
>>> iproute2-4.10.0-3.ph2
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>>> glibc-2.26-13.ph2
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3b13ebb46790d871d74a6c2450fa4b1280f90854/middleware/negotiate_test.go

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>>> golang_groupcache_lru-72d04f9fcddec7d3821820cc4a6f150eae553639a

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google-api-go-client-dfa61ae24628a06502b9c2805d983b57e89399b5/examples/compute.go

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>>> asaskevich_govalidator-9699ab6b38bee2e02cd3fe8b99ecf67665395c96

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>>> codegangsta/inject-33e0aa1eb7c019ccc3f049a8262a6403d30504

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>>> cpuguy83_go-md2man_md2man-a65d4d2de4d5f7c74868dfa9b202a3c8be315aaa

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>>> gemnasium_logrus-airbrake-hook_v2-31e6fd4bd5a98d8ee7673d24bc54ec73c31810dd

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Gocheck - A rich testing framework for Go

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```
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protobuf-6a92c871a8f5333cf106b2cdf937567208dbb2b7.tar
protobuf-6a92c871a8f5333cf106b2cdf937567208dbb2b7\codec\codec.go
```

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```gogo_protobuf_sortkeys-6a92c871a8f5333cf106b2cdf937567208dbb2b7
```

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>>> goji/param-d7f49fd7d1ed53fd562e737a8b5bbcc7e3d925e2

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>>> graylog2_go-gelf_gelf-master

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tomb - support for clean goroutine termination in Go.

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>>> tylerb/graceful.v1-4654dfeb6ad53cb5e27f37d99b02e16c1872fbbb

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It was heavily inspired by the go blowfish package.

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>>> x_tools_go_buildutil-381149a2d6e5d8f319ccf04bfefc71e03a78b868

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+build appengine

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
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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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SHA-1 in C
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Upstream source http://invisible-island.net/ncurses/ncurses-examples.html

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>>> openssh-7.5p1-11.ph2

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@version 3.0 (December 2000)

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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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Maciej Soltysiak <solt@dns.toxicfilms.tv>
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his C header file is part of the SoftFloat IEC/IEEE Floating-point Arithmetic Package, Release 2.

Written by John R. Hauser. This work was made possible in part by the International Computer Science Institute, located at Suite 600, 1947 Center Street, Berkeley, California 94704. Funding was partially provided by the National Science Foundation under grant MIP-9311980. The original version of this code was written as part of a project to build a fixed-point vector processor in collaboration with the University of California at Berkeley, overseen by Profs. Nelson Morgan and John Wawrzynek. More information is available through the Web page http://www.jhauser.us/arithmetic/SoftFloat-2b/SoftFloat-source.txt

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Reasonably optimised generic C-code for memcpy on Microblaze
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This code offers a very basic support for this EISA bus present in the SGI Indigo-2. It currently only supports PIO (forget about DMA for the time being). This is enough for a low-end ethernet card, but forget about your favorite SCSI card...
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4.9.154.tar\Documentation\PCI\pci.txt

A more complete resource is the third edition of "Linux Device Drivers"
LDD3 is available for free (under Creative Commons License) from:

http://lwn.net/Kernel/LDD3/

However, keep in mind that all documents are subject to "bit rot".
Refer to the source code if things are not working as described here.

Please send questions/comments/patches about Linux PCI API to the
"Linux PCI" <linux-pci@atrey.karlin.mff.cuni.cz> mailing list.

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Written by Andrew Lutomirski, 2011-2014.

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line - read one line


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uuidparse.c --- Interpret uuid encoded information. This program 
violates the UUID abstraction barrier by reaching into the 
guts of a UUID.

Based on libuuid/src/uuid_time.c
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From Simon Josefsson
-- derivated from coreutils m4/warnings.m4

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2.32\login-utils\setpwnam.c
setpwnam.c -- edit an entry in a password database.

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Edited 11/10/96 (DD/MM/YY ;-) by Nicolai Langfeldt (janl@math.uio.no)
to read /etc/passwd directly so that passwd, chsh and chfn can work on
machines that run NIS (previously YP). Changes will not be made to
usernames starting with +.

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Usage:
1) get a struct passwd from getpwnam().
You should assume a struct passwd has an infinite number of fields, so
you should not try to create one from scratch.
2) edit the fields you want to edit.
3) call setpwnam() with the edited struct passwd.

A _normal user_ program should never directly manipulate etc/passwd but
/use getpwnam() and (family, as well as) setpwnam().

But, setpwnam was made to _edit_ the password file. For use by chfn,
chsh and passwd. _I_ _HAVE_ to read and write /etc/passwd directly. Let
those who say nay be forever silent and think about how getpwnam (and
family) works on a machine running YP.

Added checks for failure of malloc() and removed error reporting to
stderr, this is a library function and should not print on the screen,
but return appropriate error codes.
27-Jan-97 - poe@daimi.aau.dk

Thanks to "two guys named Ian".

$Author: poer $
$Revision: 1.13 $
$Date: 1997/06/23 08:26:29 $

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A Bison parser, made by GNU Bison 3.0.4.

Bison interface for Yacc-like parsers in C


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bash-4.4.tar.gz/bash-4.4.tar/bash-4.4/lib/sh/inet_aton.c

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/ Bison implementation for Yacc-like parsers in C


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(Mostly) portable public-domain implementation -- D A Gwyn

This implementation of the PWB library alloca function,
which is used to allocate space off the run-time stack so
that it is automatically reclaimed upon procedure exit,
was inspired by discussions with J. Q. Johnson of Cornell.
J. Otto Tennant <jot@cray.com> contributed the Cray support.

There are some preprocessor constants that can
be defined when compiling for your specific system, for
improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep
track of all alloca-allocated blocks, and reclaim any
that are found to be deeper in the stack than the current
invocation. This heuristic does not reclaim storage as
soon as it becomes invalid, but it will do so eventually.

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alloca.c -- allocate automatically reclaimed memory
(Mostly) portable public-domain implementation -- D A Gwyn

This implementation of the PWB library alloca function, which is used to allocate space off the run-time stack so that it is automatically reclaimed upon procedure exit, was inspired by discussions with J. Q. Johnson of Cornell. J.Otto Tennant <jot@cray.com> contributed the Cray support.

There are some preprocessor constants that can be defined when compiling for your specific system, for improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any that are found to be deeper in the stack than the current invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.

As a special case, alloca(0) reclaims storage without allocating any. It is a good idea to use alloca(0) in your main control loop, etc. to force garbage collection.

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Heavily modified for GnuPG by Werner Koch

/
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[Here is the notice from lib_rand.c:]

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DRBG: Deterministic Random Bits Generator
Based on NIST Recommended DRBG from NIST SP800-90A with the following properties:
CTR DRBG with DF with AES-128, AES-192, AES-256 cores  
Hash DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores  
HMAC DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores  
with and without prediction resistance

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estream.c - Extended Stream I/O Library

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Test Socket Type

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Version 3, 29 June 2007

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

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

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

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

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

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

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

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

"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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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
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:

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL.  It also counts
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Finally, software patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot
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When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
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Public License. It also provides other free software developers Less
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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
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allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

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

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

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to
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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.

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

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

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

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

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SIL OPEN FONT LICENSE

Version 1.1 - 26 February 2007
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}
%notice-success {
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}
%notice-info {
  @extend %frame-blue-500, %with-passing; /* needs a better info button*/
}
%notice-highlight {
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1.1416 wso2-carbon-apimgt-hostobjects

6.4.50

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1.1427 slf4j-log4j 1.6.6

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1.1430 antlr-runtime 4.5.1

1.1431 javassist 3.21.0-GA
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  jar/javassist/bytecode/StackMapTable.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-
  jar/javassist/bytecode/ClassFileWriter.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-
  jar/javassist/SerialVersionUID.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-
  jar/javassist/compiler/SyntaxError.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-
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  jar/javassist/runtime/Inner.java
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jar/javassist/util/ProxyObjectOutputStream.java
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* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/compiler/ast/ASTree.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/compiler/ast/AssignExpr.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/ClassPoolTail.java
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* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/bytecode/annotation/ClassMemberValue.java
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* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/bytecode/annotation/CharMemberValue.java
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* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /opt/ws_local/PERMITS_SQL/1010092580_1591902201.88/0/javassist-3-21-0-ga-sources-jar/javassist/bytecode/annotation/MemberValueVisitor.java

1.1432 perf4j 0.9.12.wso2v1

1.1433 query 1.0.0
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1.1434 cxf-rt-rs-extension-providers 2.7.16

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(1)

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* /opt/ws_local/PERMITS_SQL/1069395736_1594653262.4/0/spring-core-3-2-9-release-sources-1-
  jar/org/springframework/core/DecoratingClassLoader.java
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  jar/org/springframework/core/NamedInheritableThreadLocal.java
* /opt/ws_local/PERMITS_SQL/1069395736_1594653262.4/0/spring-core-3-2-9-release-sources-1-
  jar/org/springframework/core/env/PropertySourcesPropertyResolver.java

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1.1453 spring-context 4.1.6.RELEASE

1.1454 crypto-policies 20200713-
1.git51d1222.el8

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* /opt/ws_local/PERMITS_SQL/1018364260_1591903087.49/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/Deflater.java
* /opt/ws_local/PERMITS_SQL/1018364260_1591903087.49/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/DeflaterOutputStream.java

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* /opt/ws_local/PERMITS_SQL/1018364260_1591903087.49/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/Adler32.java
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1.1469 libdnf 0.48.0-5.el8

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configure_requires:
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dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.62, CPAN::Meta::Converter version 2.112150'
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meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
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* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
  jar/io/netty/channel/ThreadPerChannelEventLoopGroup.java
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* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
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  jar/io/netty/channel/package-info.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
  jar/io/netty/channel/EventLoopException.java
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  jar/io/netty/channel/DefaultEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/MessageSizeEstimator.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/nio/SelectedSelectionKeySet.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/nio/ConnectTimeoutException.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/nio/SelectedSelectionKeySet.java

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jar/io/netty/channel/PendingBytesTracker.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/socket/ChannelOutputShutdownException.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/socket/oio/DefaultOio DatagramChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/internal/ChannelUtils.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
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jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
*/
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
*/
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
*/
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
*/
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
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*/
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its { @link ChannelPipeline }. 
* <p>
* [ @link ChannelHandler ] itself does not provide many methods, but you usually have to implement one of its
* subtypes:
* <ul>
* <li>[ @link ChannelInboundHandler ] to handle inbound I/O events, and</li>
* <li>[ @link ChannelOutboundHandler ] to handle outbound I/O operations.</li>
* </ul>
* </p>
* <p>
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>[ @link ChannelInboundHandlerAdapter ] to handle inbound I/O events,</li>
* <li>[ @link ChannelOutboundHandlerAdapter ] to handle outbound I/O operations, and</li>
* <li>[ @link ChannelDuplexHandler ] to handle both inbound and outbound events</li>
* </ul>
* </p>
* <p>
* A `@link ChannelHandler` is provided with a `@link ChannelHandlerContext` object. A `@link ChannelHandler` is supposed to interact with the `@link ChannelPipeline` it belongs to via a context object. Using the context object, the `@link ChannelHandler` can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using `@link AttributeKey`)s which is specific to the handler.

* *State management*

* A `@link ChannelHandler` often needs to store some stateful information. The simplest and recommended approach is to use member variables:

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

public class DataServerHandler extends `@link SimpleChannelInboundHandler`<Message> {

    private boolean loggedIn;

    @Override
    public void channelRead0(`@link ChannelHandlerContext` ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else if (message instanceof GetDataMessage) {
            if (loggedIn) {
                // validate the message
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
        ...
    }
}
```

Because the handler instance has a state variable which is dedicated to one connection, you have to create a new handler instance for each new channel to avoid a race condition where a unauthenticated client can get the confidential information:

```java
// Create a new handler instance per channel.
// See `@link ChannelInitializer#initChannel(Channel)`.```
public class DataServerInitializer extends ChannelInitializer&lt;Channel&gt; {
    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", new DataServerHandler());
    }
}

**Using AttributeKeys**

Although it's recommended to use member variables to store the state of a handler, for some reason you might not want to create many handler instances. In such a case, you can use AttributeKeys which is provided by ChannelHandlerContext:

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

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

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

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

```java
public class DataServerInitializer extends ChannelInitializer&lt;Channel&gt; {
    private static final DataServerHandler SHARED = new DataServerHandler();
}
```
```java
* { @code @Override
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
* }
* }</pre>

<h4>The `{@code @Sharable}` annotation</h4>

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

If a `{@link ChannelHandler}` is annotated with the `{@code @Sharable}` annotation, it means you can create an instance of the handler just once and add it to one or more `{@link ChannelPipeline}s` multiple times without a race condition.

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

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

<h3>Additional resources worth reading</h3>

Please refer to the `{@link ChannelHandler}`, and `{@link ChannelPipeline}` to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

```
*/

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  jar/io/netty/channel/embedded/EmbeddedChannelId.java
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