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1.6 python-dateutil 2.8.0

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--------------------------------------------------------------------------------
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1.7 pmezard-go-difflib v1.0.0 792786c

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1.8 librest 0.8.1 2.el8

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1.11 perl-unicode-normalize 1.25 396.el8

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1.14 python3-editor 0.4 5.el8ost

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1.15 ffi 1.9.25

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1.17 python3-django-appconf 1.0.1 5.el8ost

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1.18 icu 60.3 2.el8_1

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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 $@ $<
%: $(srcdir)/%.c

%.o: $(srcdir)/%.c 
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%: $(srcdir)/%.c

%.$(STATIC_O): $(srcdir)/%.cpp 
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%: $(srcdir)/%.cpp
```

$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<" 
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed 's/($*)/(\*A.o $@ : /g' > $@; \
[ -s $@ ] || rm -f $@' 

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<" 
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed 's/($*)/(\*A.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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1.20 xz 5.2.2.orig

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1.21 libxcb 1.13.1 1.el8

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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 from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cfff2bb5b6.
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>

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Metadata-Version: 1.2
Name: XStatic-Angular-UUID
Version: 0.0.4.0
Summary: Angular-UUID 0.0.4 (XStatic packaging standard)
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Maintainer: xinni.ge
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Angular-UUID JavaScript library packaged for setuptools (easy_install) / pip.

This package is intended to be used by **any** project that needs these files.

It intentionally does **not** provide any extra code except some metadata
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1.34 libevent 2.1.8 5.el8

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* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

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  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

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* Boris Figovsky <boris.figovsky@ravellosystems.com>
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* Cory Benfield <https://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
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  * Fixed a race condition

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  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
* Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
* Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
* Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
* HTTPHeaderDict and associated tests and docs
* Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
* Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
* source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
* PEP8 Compliance and Linting
* Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
* Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
* Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
* Added Url.url, which unparses a URL

* Evgeny Kapun <abacabadabacaba@gmail.com>
* Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
* Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
* Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
* Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
* Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
* Respect the warning preferences at import.
* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

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

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `"HTTPResponse.stream()"`.
  * Bugfix for `"ConnectionPool.urlopen(release_conn=False)"`.
  * Creation of `"HTTPConnectionPool.ResponseCls"`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
* Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in ``stream`` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vendoring

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
  * Update appveyor tox setup to use the 64bit python.
* Akamai (through Jesse Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance

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

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

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

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

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

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

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

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

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

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

1.39 libusbx 1.0.22 1.el8
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1.40 python3-dmidecode 3.12.2 15.el8
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1.42 requests-aws4auth 0.9

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1.43 setup 2.12.2 5.el8

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1.45 python3-numpy 1.15.1 2.2.el8ost

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

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1.54 perl-threads 2.21 2.el8

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---
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'
threads - Perl interpreter-based threads

This document describes threads version 2.21

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 L<discouraged|perlpolicy/discouraged>. 

SYNOPSIS

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

sub start_thread {
    my @args = @_;
    print('Thread started: ', join(', ', @args), '
');
}
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',}
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 L<threads::shared>:

use threads;
use threads::shared;

When loading L<threads::shared>, you must C<use threads> before you
C<use threads::shared>. (C<threads> will emit a warning if you do it the
other way around.)

It is strongly recommended that you enable threads via C<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:

my $can_use_threads = eval 'use threads; 1';
if ($can_use_threads) {
# Do processing using threads
...
} else {
# Do it without using threads
...
}
=over
=item $thr = threads->create(FUNCTION, ARGS)
This will create a new thread that will begin execution with the specified
entry point function, and give it the I<ARGS> list as parameters. It will
return the corresponding threads object, or C<undef> if thread creation failed.
I<FUNCTION> may either be the name of a function, an anonymous subroutine, or
a code ref.
my $thr = threads->create('func_name', ...);
# or
my $thr = threads->create(sub { ... }, ...);
# or
my $thr = threads->create(\&func, ...);
The C<-E<gt>new()> method is an alias for C<-E<gt>create()>.
=item $thr->join()
This will wait for the corresponding thread to complete its execution. When
the thread finishes, C<-E<gt>join()> will return the return value(s) of the
entry point function.
The context (void, scalar or list) for the return value(s) for C<-E<gt>join()>
is determined at the time of thread creation.
# Create thread in list context (implicit)
my ($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

Open Source Used In Cisco VIM 4.2.0 434

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

=item $thr->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 I<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 C<stringify> import option to your C<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 I<threads> object for the I<active> thread associated with the specified thread ID. If C<$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 C<use threads qw(yield)>, and then just use C<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 C<threads::all>) and in a list context, returns a list of all non-joined, non-detached I<threads> objects. In a scalar context, returns a count of the same.

With a I<true> argument (using C<threads::running>), returns a list of all non-joined, non-detached I<threads> objects that are still running.
With a \texttt{false} argument (using \texttt{threads::joinable()}), returns a list of all non-joined, non-detached \texttt{threads} objects that have finished running (i.e., for which \texttt{threads::join()} will not \texttt{block}).

\begin{verbatim}
=item $thr1->equal($thr2)

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

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

(Thread comparison is based on thread IDs.)

\begin{verbatim}
=item async BLOCK;

\texttt{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 \texttt{threads::create()}, \texttt{async} returns a \texttt{threads} object.

\begin{verbatim}
=item $thr->error()

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

\begin{verbatim}
=item $thr->_handle()

This \texttt{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 \texttt{HANDLE} value returned by \texttt{CreateThread} (i.e., \texttt{HANDLE *}); for other platforms, it is a pointer to the \texttt{pthread_t} structure used in the \texttt{pthread_create} call (i.e., \texttt{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.

\begin{verbatim}
=item threads->_handle()
\end{verbatim}
\end{verbatim}
Class method that allows a thread to obtain its own I<handle>.

=back

=head1 EXITING A THREAD

The usual method for terminating a thread is to
L<return()> 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
C<threads-E<gt>exit()>. This will cause the thread to return C<undef> in a
scalar context, or the empty list in a list context.

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

=item threads->exit(status)

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

When called from the I<main> thread, this behaves the same as C<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->exit() if threads->can('exit'); # Thread friendly
exit(status);

=item use threads 'exit' => '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->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->create({'exit' => 'thread_only'}, ...)

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

=item $thr->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->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.

=back

=head1 THREAD STATE

The following boolean methods are useful in determining the I<state> of a thread.

=over

=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 \texttt{\$thr->join()} will not block.

=item \$thr->is_detached()

Returns true if the thread has been detached.

=item \texttt{threads->is_detached()}

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

=head1 THREAD CONTEXT

As with subroutines, the type of value returned from a thread's entry point function may be determined by the thread's \texttt{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 \texttt{wantarray()}\texttt{|perlfunc/"wantarray"}. The thread may then specify a value of the appropriate type to be returned from \texttt{\$thr->join()}.

=head2 Explicit context

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 \texttt{\$thr->create()} with a hash reference as the first argument:

```perl
my \$thr = threads->create({context => 'list'}, \&\texttt{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 \texttt{\$thr} will be called in list (array) context such that the parent thread can receive a list (array) from the \texttt{\$thr->join()} call. (\texttt{\texttt{array}} is synonymous with \texttt{\texttt{list}}.)

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

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

The context type may also be used as the \texttt{key} in the hash reference followed by a \texttt{true} value:

```perl
threads->create({scalar => 1}, \&\texttt{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<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.)

=item use threads ('stack_size' => VALUE);

This sets the default per-thread stack size at the start of the application.

=item $ENV{'PERL5_ITHREADS_STACK_SIZE'}

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

\[
\text{PERL5_ITHREADS_STACK_SIZE}=1048576
\]
\[
\text{export PERL5_ITHREADS_STACK_SIZE}
\]
\[
\text{perl -e use threads; print(threads->get_stack_size(), "n")}
\]

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

=item threads->create(\{'stack_size' => VALUE\}, FUNCTION,ARGS)
To specify a particular stack size for any individual thread, call `create()` with a hash reference as the first argument:

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

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

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

---

**THREAD SIGNALLING**

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.

```perl
$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<-E<gt>kill()>.

Returns the thread object to allow for method chaining:

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

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:

```perl
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')-&gt;detach();

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

use threads;  
use Thread::Semaphore;

sub thr_func  
{  
  my $sema = shift;

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

  ...
}

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

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

...  

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

CAVEAT: The thread signalling capability provided by this module does not actually send signals via the OS. It I<emulates> signals at the Perl-level such that signal handlers are called in the appropriate thread. For example,
sending `C<$thr-E<gt>kill('STOP')>` does not actually suspend a thread (or the whole process), but does cause a `C<$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 I<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 I<man> page for `C<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 `C<threads-E<gt>exit()>`. For example, the thread may have terminated because of an error, or by using `C<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(I<SIZE>) returned 22

The specified I<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 C<useithreads> 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 L<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:

   $thr->set_stack_size($size);

=item Cannot signal threads without safe signals

Safe signals must be in effect to use the C<-E<gt>kill()> signalling method. See L</"Unsafe signals"> 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<-E<gt>kill()> 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.
=item Thread-safe modules

See L<perlmod/"Making your module threadsafe"> 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<thread-safe>. 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<require> (and C<import> if needed):

```perl
sub thr_func
{
    require Unsafe::Module
    # Unsafe::Module->import(...);

    ....
}
```

If the module is needed inside the I<main> thread, try modifying your application so that the module is loaded (again using C<require> and C<<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 L<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 C<<join()> or C<<detach()> them, for long-lived applications, it is better to maintain a pool of threads, and to reuse them for the work needed, using L<queues/Thread::Queue> to notify threads of pending work. The CPAN distribution of this module contains a simple example (F<examples/pool_reuse.pl>) illustrating the creation, use and monitoring of a pool of I<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 C<chdir()>) will affect all the threads in the application.

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

=item Environment variables

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

To work around this, set environment variables as part of the I<system> call. For example:

```perl
my $msg = 'hello';
system("FOO=$msg; echo \$FOO");  # Outputs 'hello' to STDOUT
```

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

=item Catching signals

Signals are I<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 C<SIGALRM> in a thread. To handle alarms in threads, set up a signal handler in the main thread, and then use L</"THREAD SIGNALLING"> 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 L<perl58delta/"Safe Signals"> and L<perlipc/"Deferred Signals (Safe Signals)"> 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 C<PERL_OLD_SIGNALS> (see C<perl -V>).

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

=item * The module L<Perl::Unsafe::Signals> is used.

=back

If unsafe signals is in effect, then signal handling is not thread-safe, and the C<-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 C<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 `L<Data::Dumper>` or `L<Storable>`), and then reconstituting it in the joining thread. If you're using Perl 5.10.0 or later, and if the class supports `L<shared objects|threads::shared/OBJECTS>`, you can pass them via `L<shared queues|Thread::Queue>`.

=item END blocks in threads

It is possible to add `L<END blocks|perl/mod/BEGIN, UNITCHECK, CHECK, INIT and END>` to threads by using `L<require|perlfunc/require VERSION>` or `L<eval|perlfunc/eval EXPR>` with the appropriate code. These `C<END>` blocks will then be executed when the thread's interpreter is destroyed (i.e., either during a `C<-E<gt>join()>` call, or at program termination).

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

For this reason, the use of `C<END>` blocks in threads is `B<strongly>` discouraged.

=item Open directory handles

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.


=item Detached threads and global destruction

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 clean up (e.g., removing temp files), then do not use detached threads, but rather join all threads before exiting the program.

=item Perl Bugs and the CPAN Version of L<threads>

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>

=back

=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<perltthrtut>

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 I<examples> directory of this distribution on CPAN.
=head1 AUTHOR

Artur Bergman <sky AT crucially DOT net>

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 <perl AT crystalflame DOT net> -
Helping me out tons, trying to find reasons for races and other weird bugs!

Simon Cozens <simon AT brecon DOT co DOT uk> -
Being there to answer zillions of annoying questions

Rocco Caputo <troc AT netrus DOT net>

Vipul Ved Prakash <mail AT vipul DOT net> -
Helping with debugging

Dean Arnold <darnold AT presicient DOT com> -
Stack size API

=cut

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.

Copyright 2006 - 2009 Jerry D. Hedden. All rights reserved.
This program is free software: you can redistribute it and/or modify it under
the same terms as Perl itself.

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
--nofilter  don't filter input files

Open Source Used In Cisco VIM 4.2.0 453
--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.

=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.

=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>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>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td>load_module()</td>
<td>NEED_load_module</td>
<td>NEED_load_module_GLOBAL</td>
</tr>
<tr>
<td>mg_findext()</td>
<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>
<tr>
<td>my_strlcpy()</td>
<td>NEED_my_strlcpy</td>
<td>NEED_my_strlcpy_GLOBAL</td>
</tr>
<tr>
<td>newCONSTSUB()</td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUB_GLOBAL</td>
</tr>
<tr>
<td>newRV_noinc()</td>
<td>NEED_newRV_noinc</td>
<td>NEED_newRV_noinc_GLOBAL</td>
</tr>
<tr>
<td>newSV_type()</td>
<td>NEED_newSV_type</td>
<td>NEED_newSV_type_GLOBAL</td>
</tr>
<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>
<td>NEED_newSVpvn_share_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_>.

=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
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 --cplus --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.\n";
}

if ($opt{version}) {
  print "$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($opt{'compat-version'}) };
  if ($@) {
    usage() if $opt{help};
    strip() if $opt{strip};
  }
die "Invalid version number format: "$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+\|([^|]*)\|([^|]*)\|([^|]*)\|([^|]*)$/ ? ( $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
AvFILL||
BhkDISABLE||5.021008
BhkENABLE||5.021008
BhkENTRY_set||5.021008
BhkENTRY||
BhkFLAGS||
CALL_BLOCK_HOOKS||
CLASS||
CPERLscope|5.005000
CX_CURPAD_SAVE||
CX_CURPAD_SV||
CopFILEAV|5.006000
CopFILEGV_set|5.006000
CopFILEGV|5.006000
CopFILESV|5.006000
CopFILE_set|5.006000
CopFILE|5.006000
CopSTASHPV_set|5.006000
CopSTASHPV|5.006000
CopSTASH_eq|5.006000
CopSTASH_set|5.006000
CopSTASH|5.006000
CopyD|5.009002|5.004050
Copy||
CvPADLIST|5.008001
CvSTASH||
CvWEAKOUTSIDE||
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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
PAD_SV

PERLIO_FUNCS_CAST|5.009003||p
PERLIO_FUNCS_DECL|5.009003||p
PERL_ABS|5.008001||p
PERL_BCDVERSION|5.021008||p
PERL_GCC_BRACE_GROUPS_FORBIDDEN|5.008001||p
PERL_HASH|5.003070||p
PERL_INT_MAX|5.003070||p
PERL_INT_MIN|5.003070||p
PERL_LONG_MAX|5.003070||p
PERL_LONG_MIN|5.003070||p
PERL_MAGIC_arylen|5.007002||p
PERL_MAGIC_backref|5.007002||p
PERL_MAGIC_bm|5.007002||p
PERL_MAGIC_collxfrm|5.007002||p
PERL_MAGIC_dbfile|5.007002||p
PERL_MAGIC_dbline|5.007002||p
PERL_MAGIC_defelem|5.007002||p
PERL_MAGIC_envelem|5.007002||p
PERL_MAGIC_env|5.007002||p
PERL_MAGIC_ext|5.007002||p
PERL_MAGIC_fm|5.007002||p
PERL_MAGIC_glob|5.021008||p
PERL_MAGIC_isaii|5.007002||p
PERL_MAGIC_isaul|5.007002||p
PERL_MAGIC_mutex|5.021008||p
PERL_MAGIC_nkeys|5.007002||p
PERL_MAGIC_overload_elem|5.021008||p
PERL_MAGIC_overload_table|5.007002||p
PERL_MAGIC_overload|5.021008||p
PERL_MAGIC_pos|5.007002||p
PERL_MAGIC_qr|5.007002||p
PERL_MAGIC_regdata|5.007002||p
PERL_MAGIC_regdatum|5.007002||p
PERL_MAGIC_regex_global|5.007002||p
PERL_MAGIC_shared_scalar|5.007003|p
PERL_MAGIC_shared|5.007003|p
PERL_MAGIC_sigelem|5.007002|p
PERL_MAGIC_sig|5.007002|p
PERL_MAGIC_substr|5.007002|p
PERL_MAGIC_sv|5.007002|p
PERL_MAGIC_taint|5.007002|p
PERL_MAGIC_tiedelem|5.007002|p
PERL_MAGIC_tied|5.007002|p
PERL_MAGIC_utf8|5.008001|p
PERL_MAGIC_uvar_elem|5.007003|p
PERL_MAGIC_uvar|5.007002|p
PERL_MAGIC_vec|5.007002|p
PERL_MAGIC_vstring|5.008001|p
PERL_PV_ESCAPE_ALL|5.009004|p
PERL_PV_ESCAPE_FIRSTCHAR|5.009004|p
PERL_PV_ESCAPE_NOBACKSLASH|5.009004|p
PERL_PV_ESCAPE_NOCLEAR|5.009004|p
PERL_PV_ESCAPE_QUOTE|5.009004|p
PERL_PV_ESCAPE_RE|5.009005|p
PERL_PV_ESCAPE_UNI_DETECT|5.009004|p
PERL_PV_ESCAPE_UNI|5.009004|p
PERL_PVPRETTY_DUMP|5.009004|p
PERL_PVPRETTY_ELLIPSES|5.010000|p
PERL_PVPRETTY_LTGT|5.009004|p
PERL_PVPRETTY_NOCLEAR|5.010000|p
PERL_PVPRETTY_QUOTE|5.009004|p
PERL_PVPRETTY_REGPROP|5.009004|p
PERL_QUAD_MAX|5.003070|p
PERL_QUAD_MIN|5.003070|p
PERL_REVISION|5.006000|p
PERL_SCAN_ALLOW_UNDERSCORES|5.007003|p
PERL_SCAN_DISALLOW_PREFIX|5.007003|p
PERL_SCAN_GREATER_THAN_UV_MAX|5.007003|p
PERL_SCAN_SILENT_ILLDIGIT|5.008001|p
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|p
PERL_SYS_INIT|p
PERL_SYS_TERM|5.021008|p
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_UINT_MAX|5.003070|p
PERL_ULONG_MAX|5.003070|p
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PadlistMAX
PadlistNAMESARRAY
PadlistNAMESMAX
PadlistNAMES
PadlistREFCNT
PadnameIsOUR
PadnameIsSTATE
PadnameLEN
PadnameOURSTASH
PadnameOUTER
PadnamePV
PadnameREFCNT_dec
PadnameREFCNT
PadnameSV
PadnameTYPE
PadnameUTF8
PadnamelistARRAY
PadnamelistMAX
PadnamelistREFCNT_dec
PadnamelistREFCNT
PerlIO_clearerr
PerlIO_close
PerlIO_context_layers
PerlIO_eof
PerlIO_error
PerlIO_fileno
PerlIO_fill
PerlIO_flush
PerlIO_get_base
PerlIO_get_buffer
PerlIO_get_cbuf
PerlIO_get_ptr
PerlIO_read
PerlIO_restore_errno
PerlIO_save_errno
PerlIO_seek
PerlIO_set_cbuf
PerlIO_set_ptrcnt
PerlIO_set_linebuf
PerlIO_stderr
PerlIO_stdin
PerlIO_stdout
PerlIO_tell
PerlIO_unread
PerlIO_write
Perl_signbit
PoisonFree
PoisonNew

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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
SvPVX_const|5.009003||p
SvPVX_flag_const_nolen|5.009003||p
SvPVX_flag_const|5.009003||p
SvPVX_flagMutable|5.009003||p
SvPVX Flags|5.007002||p
SvPVX_flagConst|5.009003||p
SvPVX_flagMutable|5.009003||p
SvPVX flagMutable|5.009003||p
SvPVX_FlagFlagsMutable|5.009003||p
SvPVX_FlagFlags_nolen|5.009003||p
SvPVX_FlagFlags|5.007002||p
SvPVX_flagForce|5.009003||p
SvPVX_mutable|5.009003||p
SvPVX_Nolen|5.006000||p
SvPVX_Nolen_const|5.009003||p
SvPVX_Nomg|5.007002||p
SvPVX_nomg_nolen|5.009003||p
SvPVX Nomg|5.007002||p
SvPVX_renew|5.009003||p
SvPVX_set||
SvPVXbyte_force|5.009002|
SvPVXbyte_nolen|5.006000|
SvPVXbyte_Force|5.006000|
SvPVXbyte|5.006000||p
SvPVXUtf8_force|5.006000|
SvPVXUtf8_nolen|5.006000|
SvPVXUtf8_Force|5.006000|
SvPVXUtf8|5.006000|
SvPVXUtf8||5.006000|
SvPVX||
SvPVX||
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|5.009004||p
SvREFCNT inc simple void|5.009004||p

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_append_range_to_invlist||
_core_swash_init||
_get_encoding||
_get_regclass_nonbitmap_data||
_get_swash_invlist||
_invlist_array_init||
_invlist_contains_cp||
_invlist_contents||
_invlist_dump||
_invlist_intersection_maybe_complement_2nd||
_invlist_intersection||
_invlist_invert||
_invlist_len||
_invlist_populate_swatch||
_invlist_search||
_invlist_subtract||
_invlist_union_maybe_complement_2nd||
_invlist_union||
_is_cur_LC_category_utf8||
_is_in_locale_category||
_is_uni_FOO||
_is_uni_perl_idcont||
_is_uni_perl_idstart||
_is_utf8_FOO||
_is_utf8_char_slow||
_is_utf8_idcont||
_is_utf8_idstart||
_is_utf8_mark||
_is_utf8_perl_idcont||
_is_utf8_perl_idstart||
_is_utf8_xidcont||
_is_utf8_xidstart||
_load_PL_utf8_foldclosures||
_make_exactf_invlist||
_new_invlist_C_array||
_new_invlist||
_pMY_CXT||
_setup_canned_invlist||
_swash_inversion_hash||
_swash_to_invlist||
_to_fold_latin1||
_to_uni_fold_flags||
_to_upper_title_latin1||
_to_utf8_fold_flags||
_to_utf8_lower_flags||
_to_utf8_title_flags||
_to_utf8_upper_flags||
_warn_problematic_locale||
aMY_CXT_5.007003
aMY_CXT[5.007003]
aTHXR_5.021008
aTHXR[5.021008]
aTHX_[5.006000]
aTHX[5.006000]
assign_common_vars
add_above_Latin1_folds
add_cp_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]
apply_attrs_my
apply_attrs_string[5.006001]
apply_attrs
apply
assert_uft8_cache_coherent
assignment_type
atfork_lock[5.007003]
atfork_unlock[5.007003]
av_arylen_p[5.009003]
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
av_top_index
av_undef
av_unshift
ax
backup_one_SB
backup_one_WB
bad_type_gv
bad_type_pv
bind_match
block_end
block_gimme
block_start
blockhook_register
boolSV
boot_core_PerlIO
boot_core_UNIVERSAL
boot_core_mro
bytes_cmp_utf8
bytes_from_utf8
bytes_to_utf8
call_argv
call_atexit
call_list
call_method
call_pv
call_sv
caller_cx
calloc
cando
cast_i32
cast_iv
cast_ulong
cast_uv
check_locale_boundary_crossing
check_type_and_open
check_uni
check_utf8_print
checkcomma
ckWARN
ck_entersub_args_core
ck_entersub_args_list[5.013006]
ck_entersub_args_proto_or_list[5.013006]
ck_entersub_args_proto[5.013006]
ck_warner_d[5.011001]|v
cck_warner[5.011001]|v
ckwarn_common||
ckwarn_d[5.009003]
cckwarn[5.009003]
clear_placeholders||
clear_special_blocks||
closest_cop||
cntnl_to_mnemonic||n
compute_EXACTish||n
construct_ahocorasick_from_trie||
cop_fetch_label[5.015001]
cop_free||
cop_hints_2hv[5.013007]
cop_hints_fetch_pvn[5.013007]
cop_hints_fetch_pvs[5.013007]
cop_hints_fetch_pv[5.013007]
cop_hints_fetch_sv[5.013007]
cop_store_label[5.015001]
cophh_2hv[5.013007]
cophh_copy[5.013007]
cophh_delete_pvn[5.013007]
cophh_delete_pvs[5.013007]
cophh_delete_pv[5.013007]
cophh_delete_sv[5.013007]
cophh_fetch_pvn[5.013007]
cophh_fetch_pvs[5.013007]
cophh_fetch_pv[5.013007]
cophh_fetch_sv[5.013007]
cophh_free[5.013007]
cophh_new_empty[5.021008]
cophh_store_pvn[5.013007]
cophh_store_pvs[5.013007]
cophh_store_pv[5.013007]
cophh_store_sv[5.013007]
core_prototype||
coresub_op||
could_it_be_a_POSIX_class||n
cr_textfilter||
create_eval_scope||
croak_memory_wrap[5.019003]|n
croak_no_mem||n
croak_no_modify[5.013003]|n
dVAR|5.009003]|p
dXCP'|5.009002]|p
dxSARGS]|p
dXSI32]|p
dXSTAR|5.006000]|p
deb_curcv]|p
deb_nocontext]|vn
deb_stack_all]|p
deb_stack_n]|p
debop]|5.005000|
debprofdump]|5.005000|
debprof]|p
debstackptrs]|5.007003|
debstack]|5.007003|
debug_start_match]|p
deb]|5.007003|v
defelem_target]|p
del_sv]|p
delete_eval_scope]|p
delimcpy]|5.004000|n
deprecate_commaless_var_list]|p
despatch_signals]|5.007001|
destroy_matcher]|p
die_nocontext]|vn
die_sv]|5.013001|
die_unwind]|p
diel]|v
dirp_dup]|p
div128]|p
djSP]|p
do_aexec5]|p
do_aexec]|p
do_aspawn]|p
do_binmode]|5.004050|
do_chomp]|p
do_close]|p
do_delete_local]|p
do_dump_pad]|p
do_eof]|p
do_exec3]|p
do_execfree]|p
do_exec]|p
do_gv_dump]|5.006000|
do_gvgv_dump]|5.006000|
do_hv_dump]|5.006000|
do_ipcctl]|p
do_ipcget]|p
do_join]|p
do_magic_dump|5.006000|
do_mscv||
do_msgsnd||
do_ncmp||
do_oddball||
do_op_dump|5.006000|
do_open6||
do_open9|5.006000|
do_open_raw||
do_openn|5.007001|
do_open|5.003070|
do_pmop_dump|5.006000|
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||
doeval||
dofile||
dofindlabel||
doform||
doing_taint|5.008001|n
doneliner||
doopen_pm||
doparseform||
dopoptoeval||
dopoptogiven||
dopoptolabel||
dopoptoat||
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
gv_efullname
gv_fetchfile_flags
gv_fetchfile

gv_fetchmeth_autoload[5.007003]
gv_fetchmeth_internal

gv_fetchmeth_pv_autoload[5.015004]
gv_fetchmeth_pvn_autoload[5.015004]
gv_fetchmeth_pvn[5.015004]
gv_fetchmeth_pv[5.015004]
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gv_fetchmeth_sv[5.015004]
gv_fetchmethod_autoload[5.004000]
gv_fetchmethod_pv_flags[5.015004]
gv_fetchmethod_pvn_flags[5.015004]
gv_fetchmethod_pvn[5.015004]
gv_fetchmethod_sv_flags[5.015004]
gv_fetchmethod_sv[5.015004]
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gv_fetchpvs[5.009004]
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gv_fetchsv[5.009002]
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gv_fullname

gv_handler[5.007001]
gv_init_pvn[5.015004]
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gv_init_svtype

gv_init[5.015004]
gv_init

gv_is_in_main

gv_magicalize_isa

gv_magicalize

gv_name_set[5.009004]
gv_override

gv_setref

gv_stashpvn_internal

gv_stashpvn[5.003070]
gv_stashpvs[5.009003]
gv_stashpv

gv_stashsvpvn_cached

gv_stashsv

gv_try_downgrade

handle_regex_sets

he_dup

hek_dup

hfree_next_entry

hfreeentries

hsplit

hv_assert
hv_undef_flags
hv_undef
ibcmpLocale[5.004000]
ibcmpUTF8[5.007003]
ibcmp
incline
incpush_if_exists
incpush_use_sep
incpush
ingroup
init_argv_symbols
init_constants
init_dargs
init_debugger
init_global_struct
init_i18nl10n[5.006000]
init_i18nl14n[5.006000]
init_ids
init_interp
init_main_stash
init_perllib
init_postdump_symbols
init_predump_symbols
init_stacks[5.005000]
init_tm[5.007002]
inplace_aassign
instr
intro_my[5.004000]
intuit_method
intuit_more
invert
invlist_array
invlist_clone
invlist_extend
invlist_highest
invlist_is_iterating
invlist_iterfinish
invlist_iterinit
invlist_iternext
invlist_max
invlist_previous_index
invlist_set_len
invlist_set_previous_index
invlist_trim
invoke_exception_hook
io_close
isALNUMC[5.006000]
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make_matcher
make_trie
malloc_good_size
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malloc[5.007002]
markstack_grow[5.021001]
matcher_matches_sv
maybe_multimagic_gv
maybe_relocate
measure_struct
memEQs[5.009005]
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memNEs[5.009005]
memNE[5.004000]
mem_collxfrm
mem_log_common
mess_alloc
mess_nocontext
mess_sv[5.013001]
mess[5.006000]
mfree[5.007002]
mg_clear
mg_copy
mg_dup
mg_find_mglob
mg_findext[5.013008]
mg_find
mg_free_type[5.013006]
mg_free
mg_length[5.005000]
mg_localize
mg_magical
mg_set
mg_size[5.005000]
mini_mktime[5.007002]
minus_v
missingterm
mode_from_discipline
modkids
more_bodies
more_sv
moreswitches
move_proto_attr
mro_clean_isarev
mro_gather_and_rename
mro_get_from_name[5.010001]
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);

if (exists $opt{'list-unsupported'}) {
  my $f;
  for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $API{$f}{todo};
    print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), " un";
  }
  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;
  $code =~ s{
      / (?: \n[^\n\s][^\s]+(?:[^$ccs][^\s]+)+ / | /[^\n\s]+) |
    "[^\n\s]+(?:[^$ccs][^\s]+)+"}
| '[^'\\]*(?:\\.[^'\\]*)*' }{}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_\(my_(\w+)\)};

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if (m{^\s*$rccs\s+Replace\:\ls+\(\d+\)\ls+\$rcce\ls+\$\}) {
    my @deps = map { s/\ls+/\g; S_ } split \./, $3;
    my $d;
    for $d (map { s/\ls+/\g; S_ } split \./, $1) {
        push @{$depends{$d}}, @deps;
    }
}

$need{$1} = 1 if m{^\s*\#if\s+defined\(\NEED\_{\(w+\)\(_.-GLOBAL\)w+}\)};
}

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 "\n\n$\n" if exists $warnings{$f};
            $info++;
        }
        print "\n\nWARNING:\n$\n" if exists $warnings{$f};
        $info++;
    }
    print "\n\n\n\nNo 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;
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;

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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 ($c =~ /Ab(?:Perl_)?($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{Sfunc}{[base]} || $API{Sfunc}{[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{Sfunc}{todo} > $opt{compat-version}) {
      if ($c =~ /Ab$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{$_}{'$_'}},$filename;
  }
}

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}
}
$files{$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*}
{$func$1(}g);

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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";
    } elseif (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";
    } elseif (exists $file{needs}{$func}) {
        $message = "No need to define NEED_$func\_GLOBAL if $func is never used";
    } elseif (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);
}

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

if ($func) {
    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"\n";
        $pp .= qq(#include "$ppport\n")
    }

    if ($pp) {
        $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*)/$1$pp/ms)
            || ($c =~ s/$HS*IPPS\p{Dash}\w+/\p{Dash}/m)
            || ($c =~ s/$HS*IPPS\w+/\w+/m)
            || ($c =~ s/$HS*XSUB.*$*/$1Spp/m)
            || ($c =~ s/$/Spp/);
else {
    if ($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 {
        $c =~ s/$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$s) \n" : "
info("Analysis completed$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: "$\n");
            }
        }
    } else {
        warning("No need to include '$ppport'");
        $file{changes} += ($c =~ s/^$HS*?#$HS*include.*\Q$ppport\E.*?$LF//m);
    }
}
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 $@ eq "" }

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

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

    if ($diff) {
        info("$file{changes} potentially required change$s detected");
    } else {
        info("Looks good");
    }

    return $diff;
}
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 $tmp") {
            while (<F>) {
                s/$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 $seen->{func}++; 
    my %s; 
    grep !:$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'\n";
    }
    $ver = s/_//g; 
    $ver = s/$/000000/;
    my($r,$v,$s) = $ver =~ /\d+(\d+)[\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 "%.%3d", $r, $v;
    $s > 0 and $ver .= sprintf "_.%2d", $s;

    return $ver;
}

return sprintf "%.%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

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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

\/$ms;

my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
$c =~ s{ / (?: \*[^\*]*\*+(?:[^$ccs]\[^*]*\*+)* / | /\[^
\]* ) | ( "[^"\]*(?:\.|\")*" | '[^'\]*(?:\.|\")*' ) | ($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: $!\n";
print OUT "$pl$c\n";
exit 0;
}

__DATA__
*/

Found in path(s):
1.55 libx11 1.6.8 3.el8

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1.57 alpinelinux-aports 3.5.2
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```bash
# Contributor: Fabian Affolter <fabian@affolter-engineering.ch>
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pkgname=py-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.1
pkgrel=1
pkgdesc="Extension for flake8 which checks for copyrights"
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="python2 flake8"
depends_dev=""
makedepends="python2-dev py-setuptools"
install=""
subpackages=""
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/$_pkgname/$_pkgname-$pkgver.tar.gz"

_buildddir="$srcdir"/$_pkgname-$_pkgver
prepare() { local i
cd "$_buildddir"
for i in $source; do
case $i in
  *.patch) msg $i; patch -p1 -i "$srcdir"/$i || return 1;;
esac
done
}
build() {
cd "$_buildddir"
python2 setup.py build || return 1
}
```
package() {
    cd "$_builddir"
    python2 setup.py install --prefix=/usr --root="$pkgdir" || return 1
}

md5sums="8fab17d27f0b417c44ea0bebf579d71b flake8-copyright-0.1.tar.gz"
sha256sums="c1ef4b8ad4bd422b629ec481074256d33ca4ce88f10c7a7da6619b01c18ccf6f8a86bf6c7ce4d73f9a3e0f23797c1a356abcf242e9f556b979b75e3a8bfe46 flake8-copyright-0.1.tar.gz"
sha512sums="c1ef4b8ad4bd422b629ec481074256d33ca4ce88f10c7a7da6619b01c18ccf6f8a86bf6c7ce4d73f9a3e0f23797c1a356abcf242e9f556b979b75e3a8bfe46 flake8-copyright-0.1.tar.gz"
# Automatically generated by apkbuild-cpan, template 1
# Contributor: Francesco Colista <francesco.colista@gmail.com>
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pkgname=perl-software-license
/pkgreal=Software-License
pkgver=0.103004
pkgrel=0
pkgdesc="packages that provide templated software licenses"
url="http://search.cpan.org/dist/Software-License/"
arch="noarch"
license="GPL PerlArtistic"
cpandepends="perl-text-template perl-data-section perl-sub-install"
cpanmakedepends=""
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/R/RJ/RJBS/$pkgreal-$pkgver.tar.gz"

$_builddir="$srcdir/$pkgreal-$pkgver"

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

build() {
    cd "$_builddir"
    export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
    make && make test
}

package() {
    cd "$_builddir"
    make DESTDIR="$pkgdir" install || return 1
    find "$pkgdir" \/ -name perllocal.pod -o -name .packlist \ -delete
md5sums="0c5fd53d93818566234578b27d667b35  Software-License-0.103004.tar.gz"
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fix issues with fortify-headers and the way openssh handles the needed BSD compatible realpath(3).

unconditionally use the provided realpath() as otherwise cross-builds
would try to use musl realpath() which is posix compliant and not working to openssh expectations.

```diff
diff -ru openssh-7.2p2.orig/openbsd-compat/openbsd-compat.h openssh-7.2p2/openbsd-compat/openbsd-compat.h
--- openssh-7.2p2.orig/openbsd-compat/openbsd-compat.h	2016-03-09 20:04:48.000000000 +0200
@@ -68,17 +68,7 @@
    #endif
-#if !defined(HAVE_REALPATH) || defined(BROKEN_REALPATH)
-/*
- * glibc's FORTIFY_SOURCE can redefine this and prevent us picking up the
- * compat version.
- */
-# ifdef BROKEN_REALPATH
-# define realpath(x, y) _ssh_compat_realpath(x, y)
-# endif
-
-# include <sys/types.h>
-# include <sys/param.h>
-# endif
+char *ssh_realpath(const char *path, char *resolved);
# ifndef HAVE_RRESVPORT_AF
int rresvport_af(int *alport, sa_family_t af);
```
+++ openssh-7.2p2/sftp-server.c 2016-07-18 13:34:29.131267241 +0300
@@ -1162,7 +1162,7 @@
 debug3("request %u: realpath", id);
 verbose("realpath "\"%s\"", path);
-if (realpath(path, resolvedname) == NULL) {
+if (ssh_realpath(path, resolvedname) == NULL) {
   send_status(id, errno_to_portable(errno));
 } else {
 Stat s;

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--- a/expected/plluatest.out
+++ b/expected/plluatest.out
@@ -232,8 +232,8 @@
 1 | name  | data
(1 row)

+SET client_min_messages = warning;
CREATE TABLE tree (id INT PRIMARY KEY, lchild INT, rchild INT);
-NOTICE:  CREATE TABLE / PRIMARY KEY will create implicit index "tree_pkey" for table "tree"
CREATE FUNCTION filltree (t text, n int) RETURNS void AS $$
  local p = server.prepare("insert into " .. t .. " values($1, $2, $3)",
      {"int4", "int4", "int4"})
--- a/sql/plluatest.sql
+++ b/sql/plluatest.sql
@@ -160,6 +160,7 @@

--- a/sql/plluatest.sql
+++ b/sql/plluatest.sql
@@ -160,6 +160,7 @@

--- a/sql/plluatest.sql
+++ b/sql/plluatest.sql
@@ -160,6 +160,7 @@

--- a/sql/plluatest.sql
+++ b/sql/plluatest.sql
@@ -160,6 +160,7 @@
SELECT * FROM get_rows('name');

+SET client_min_messages = warning;
CREATE TABLE tree (id INT PRIMARY KEY, lchild INT, rchild INT);

CREATE FUNCTION filltree (t text, n int) RETURNS void AS $$
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pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=5
pkgdesc="A library for high-performance 2D graphics"
url="http://www.levien.com/libart/
arch="all"
license="LGPL"
depends=
makedepends=
subpackages="$pkgname-dev"

_builddir="$srcdir/libart_lgpl-$pkgver"

prepare() {
cd "$_builddir"
update_config_sub || return 1
}
build() {
cd "$_builddir"
./configure
   --build=$CBUILD
   --host=$CHOST
   --prefix=/usr
|| return 1
make || return 1
}
package() {
cd "$_builddir"
make DESTDIR="$pkgdir" install || return 1
}

md5sums="08559f3c67fd95d57b0c5e91a6b4302  libart_lgpl-2.3.21.tar.bz2"
# Automatically generated by apkbuild-cpan, template 1
# Contributor: Valery Kartel <valery.kartel@gmail.com>
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_pkgreal=BSD-Resource
pkgname=perl-bsd-resource
_pkgreal=BSD-Resource
pkgver=1.2909
pkgrel=1
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="http://search.cpan.org/dist/BSD-Resource/"
arch="all"
license="GPL PerlArtistic"
cpandepends=""
cpanmakedepends=""
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/J/JH/JHI/$_pkgreal-$pkgver.tar.gz"

_builddir="$srcdir/$_pkgreal-$pkgver"
prepare() {
    cd "$_builddir"
    export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
    PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
    cd "$_builddir"
    export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
    make && make test || return 1
}

package() {
    cd "$_builddir"
    make DESTDIR="$pkgdir" install || return 1
    find "$pkgdir" \(-name perllocal.pod -o -name .packlist \) -delete
}

md5sums="3c6dd2fa953088aa87e263f40818d012  BSD-Resource-1.2909.tar.gz"
sha256sums="c47d460e2bd00d8d049f6ff4a0f1f1957e289e8de45af5fc79e851e2e855e06  BSD-Resource-1.2909.tar.gz"
sha512sums="5f489eac5089e82081b7cf51d62638750e443751b49415407354da96b17771819b5e6e85529faa41ddd85743363750157943c7f7700276c2b40a429fa430  BSD-Resource-1.2909.tar.gz"
mini_sendmail - accept email on behalf of real sendmail

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1.60 libpsl 0.20.2 5.el8

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1.61 lunixbochs-struc master a9e4041

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1.66 python3-os-client-config 1.33.0
1.20201113112619.d0ee17.el8ost
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1.67 perl-parent 0.237 1.el8

1.67.1 Available under license:
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Found in path(s):
* /opt/cola/permits/1162149574_1620797802.24/0/perl-parent-0.237-1.el8-1.src.rpm-cosi-expand-archive-5yB8zGYo/perl-parent.spec
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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'

Found in path(s):
* /opt/cola/permits/1162149574_1620797802.24/0/perl-parent-0.237-1.el8-1.src.rpm-cosi-expand-archive-5yB8zGYo/parent-0.237.tar.gz-cosi-expand-archive-1YRuAMRt/parent-0.237/META.yml
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=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:

package MyHash;
use Tie::Hash;
use parent -norequire, 'Tie::StdHash';

This is equivalent to the following code:

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 `.<pm>` or `.<pmc>`), use the following code:

package MySecondPlugin;
require './plugins/custom.plugin'; # contains Plugin::Custom
use parent -norequire, 'Plugin::Custom';

=head1 HISTORY

This module was forked from L<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 >

Copyright (c) 2007-2017 Max Maischein C<< <corion@cpan.org> >>
Based on the idea of C<base.pm>, which was introduced with Perl 5.004_04.

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=cut

Found in path(s):
* /opt/cola/permits/1162149574_162079802.24/0/perl-parent-0.237-1.el8-1.src.rpm-cosi-expand-archive-5yB8zGYo/parent-0.237.tar.gz-cosi-expand-archive-1YRuAMRt/parent-0.237/lib/parent.pm

1.68 sigdump 0.2.4

1.68.1 Available under license:
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1.69 sqlite 3.16.2.orig-www

1.69.1 Available under license:

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">
<html>
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<meta http-equiv="content-type" content="text/html; charset=UTF-8">
<link href="sqlite.css" rel="stylesheet">
<title>SQLite Copyright</title>
</head>
<body>
window.onbeforeunload = function(e){ div_off("submenu"); }

/* Disable the Search feature if we are not operating from CGI, since */
/* Search is accomplished using CGI and will not work without it. */
if( !location.origin.match || !location.origin.match(/http/) ){
document.getElementById("search_menubutton").style.display = "none";
}

/* Used by the Hide/Show button beside syntax diagrams, to toggle the */
/* function hideorshow(btn, obj){ */
var x = document.getElementById(obj);
var b = document.getElementById(btn);
if( x.style.display!='none' ){
x.style.display = 'none';
b.innerHTML='show';
} else{
x.style.display = "";
b.innerHTML='hide';
}
return false;
}
</script>
</div>

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1.70 urllib3 1.25.1

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# Contributions to the urllib3 project

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  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRiBZDhBFxB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

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  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
* SSL fingerprint and alternative hostname verification
* Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
* Optional SNI-support for Python 2 via PyOpenSSL.

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* Fixed pickle support of some exceptions

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* Allowed to skip SSL hostname verification

* Cory Benfield <https://lukasa.co.uk/about/>
* Stream method for Response objects.
* Return native strings in header values.
* Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
* Add missing WrappedSocket.fileno method in PyOpenSSL

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* Fixed a race condition

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* Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
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* Peter Waller <p@pwaller.net>
* HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
* Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
* Disabled TLS compression by default on Python 3.2+
* Disabled TLS compression in pyopenssl contrib module
* Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

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  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

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* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

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  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.
* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

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

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  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bug fix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
* Disabling IPv6 DNS when IPv6 connections not supported
* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * `HTTPResponse` contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in ``stream`` when `amt=0`.
  * Added `length_remaining` to determine remaining data to be read.
  * Added `enforce_content_length` to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmiellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vendoring

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
  * Update appveyor tox setup to use the 64bit python.
* Akamai (through Jesse Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance

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

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

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

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

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

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

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

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

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

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

### 1.71 firewalld 0.8.0 4.el8

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Metadata-Version: 1.0
Name: XStatic-JSEncrypt
Version: 2.3.1.1
Summary: JSEncrypt 2.3.1 (XStatic packaging standard)
Home-page: http://travistidwell.com/jsencrypt/
Author: Rob Cresswell
Author-email: robert.cresswell@outlook.com
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Description: XStatic-JSEncrypt

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

JSEncrypt JavaScript library packaged for setuptools (easy_install) / pip.

This package is intended to be used by **any** project that needs these files.

It intentionally does **not** provide any extra code except some metadata.
**nor** has any extra requirements. You MAY use some minimal support code from
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You can find more info about the xstatic packaging way in the package `XStatic`.

Keywords: jsencrypt xstatic
Platform: any

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* /opt/cola/permits/1162147543_1620790217.92/0/python-XStatic-JSEncrypt-2.3.1.1-5.el8ost.src.rpm-cosi-expand-archive-gPtyHy2N/XStatic-JSEncrypt-2.3.1.1.tar.gz-cosi-expand-archive-Oys1Z2EV/XStatic-JSEncrypt-2.3.1.1/XStatic_JSEncrypt.egg-info/PKG-INFO
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/*
 * @fileOverview
 * @name asn1-1.0.js
 * @author Kenji Urushima kenji.urushima@gmail.com
 * @version 1.0.2 (2013-May-30)
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1.77 libaio 0.3.112 1.el8
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1.78 libogg 1.3.2 10.el8

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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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Metadata-Version: 1.0
Name: XStatic-JQuery.quicksearch
Version: 2.0.3.1
Summary: JQuery.quicksearch 2.0.3 (XStatic packaging standard)
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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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abstract: 'alternative warn and die for modules'
author:
  - unknown
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
=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";

    # cluck, longmess and shortmess not exported by default
    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 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 cluck 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.

=head2 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

=head1 GLOBAL VARIABLES

=head2 $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>.

=head2 $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:
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:

    $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 C<confess> will not start
inside of C<Carp>, and the short message from calling C<croak> is
not placed on the line where \texttt{C\langle croak\rangle} was called.

\texttt{=head2 \$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{C\langle Carp\rangle}'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{C\langle Carp\rangle} 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{C\$Carp::CarpLevel\rangle}. Instead use \texttt{C\langle @CARP\_NOT\rangle}, \texttt{C\langle \%Carp::Internal\rangle} and \texttt{C\langle \%Carp::CarpInternal\rangle}.

Defaults to \texttt{C\langle 0\rangle}.

\texttt{=head1 BUGS}

The 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.

\texttt{=head1 SEE ALSo}

\texttt{L\langle Carp::Always\rangle},
\texttt{L\langle Carp::Clan\rangle}

\texttt{=head1 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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1.102 fluent-plugin-kubernetes-metadata-filter
2.0.0

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1.103 microcode-ctl 20191115

4.20210216.1.el8_2

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1.104 file-system 3.8 2.el8

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1.105 perl-storable 3.11 3.el8

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The Storable extension brings persistence to your data.

You may recursively store to disk any data structure, no matter how
complex and circular it is, provided it contains only SCALAR, ARRAY,
HASH (possibly tied) and references (possibly blessed) to those items.

At a later stage, or in another program, you may retrieve data from
the stored file and recreate the same hierarchy in memory. If you
had blessed references, the retrieved references are blessed into
the same package, so you must make sure you have access to the
same perl class than the one used to create the relevant objects.

There is also a dclone() routine which performs an optimized mirroring
of any data structure, preserving its topology.

Objects (blessed references) may also redefine the way storage and
retrieval is performed, and/or what deep cloning should do on those
objects.

To compile this extension, run:
perl Makefile.PL [PERL_SRC=...where you put perl sources...]
make
make install

There is an embedded POD manual page in Storable.pm.

Storable was written by Raphael Manfredi <Raphael_Manfredi@pobox.com>
Maintenance is now done by cperl, https://github.com/rurban/Storable/
Note that p5p still ships an old broken version, without stack overflow
protection and large object support. As long as you don't store overlarge
objects, they are compatible.

Please e-mail us with problems, bug fixes, comments and complaints,
although if you have complements you should send them to Raphael.
Please don't e-mail Raphael with problems, as he no longer works on
Storable, and your message will be delayed while he forwards it to us.

------------------------------------------------------------------------
Thanks to (in chronological order):

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for optional disabling tie and bless for increased security.
Reini Urban <rurban@cpanel.net> for the 3.0x >2G support and rewrite
JD Lightsey <jd@cpanel.net>

for their contributions.

A Japanese translation of this man page is available at the Japanized

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

The perl5-porters would like to thank

Raphael Manfredi <Raphael_Manfredi@pobox.com>

According to the perl5.8 Changes file, the following people have helped
bring you this Storable release:
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/*

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

ppport.h -- Perl/Pollution/Portability Version 3.40

Automatically created by Devel::PPPort running under perl 5.028000.

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
### 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
```

### 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.

### OPTIONS

- **--help**
  Display a brief usage summary.

- **--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.
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.

=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:

    #define NEED_function
    #define NEED_variable

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

    #define NEED_function_GLOBAL
    #define NEED_variableGLOBAL
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>
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<tr>
<td>vmess()</td>
<td>NEED_vmess</td>
<td>NEED_vmess_GLOBAL</td>
</tr>
<tr>
<td>vnewSVpvf()</td>
<td>NEED_vnewSVpvf</td>
<td>NEED_vnewSVpvf_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 \texttt{C<DPPP_NAMESPACE>} macro. Just \texttt{C<#define>} the macro before including \texttt{C<ppport.h>}:

\begin{verbatim}
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
\end{verbatim}

The default namespace is \texttt{C<DPPP_>}.  

=back

The good thing is that most of the above can be checked by running \texttt{F<ppport.h>} on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether \texttt{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, \texttt{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 \texttt{C<diff>} program or options, using the \texttt{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:
To display portability information for the `newSVpvn` function, use:

perl ppport.h --api-info=newSVpvn

Since the argument to `--api-info` can be a regular expression, you can use

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

to display portability information for all `_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 send a bug report to L<perlbug@perl.org|mailto:perlbug@perl.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) 2004-2013, 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 = 3.40;

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($ppport) = $0 =~ /\[\w.]+\$/;

my $LF = '(?:\r\n|\[\r\n\])';   # line feed
my $HS = "[ \t]";  # horizontal whitespace

# Never use C comments in this file!
my $secs = '.*';
my $sect = '*\./';
my $srcs = quotemeta $secs;
my $srct = quotemeta $sect;

eval {
    require Getopt::Long;
    Getopt::Long::GetOptions(%opt, qw(
        help quiet diag! filter! 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.
";
    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+)(\[^|]*)?(\[^|]*)?(\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
CopFILEGSV||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|5.004050||p
Copy|||
CvPADLIST||5.008001|
CvSTASH|||
CvWEAKOUTSIDE|||
DECLARATION_FOR LC_NUMERIC_MANIPULATION||5.021010|
DEFSV_set||5.010001||p
DEFSV||5.004050||p
DO_UTF8||5.006000|
END_EXTERN_C||5.005000||p
ENTER|||
ERRSV||5.004050||p
EXTEND|||
EXTERN_C||5.005000||p
F0convert|||
FREETMPS|||
GIMME_V||5.004000|
GIMME|||

GROK_NUMERIC_RADIX\[5.007002\]|p
G_ARRAY\|
G_DISCARD\|
G_EVAL\|
G_METHOD\[5.006001\]|p
G_NOARGS\|
G_SCALAR\|
G_VOID\[5.004000\]
GetVars\|
GvAV\|
GvCV\|
GvHV\|
GvSV\|
Gv_AMupdate\[5.011000\]
HEf_SVKEY\[5.003070\]|p
HeHASH\[5.003070\]
HeKEY\[5.003070\]
HeKLEN\[5.003070\]
HePV\[5.004000\]
HeSVKEY_force\[5.003070\]
HeSVKEY_set\[5.004000\]
HeSVKEY\[5.003070\]
HeUTF8\[5.010001|5.008000\]|p
HeVAL\[5.003070\]
HvENAMELEN\[5.015004\]
HvENAMEUTF8\[5.015004\]
HvENAME\[5.013007\]
HvENAMELEN_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||
MULTICALL|5.024000|
MUTABLE_PTR|5.010001|p
MUTABLE_SV|5.010001|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
NV.TYPE|5.006000|p
NV.ef|5.006001|p
NV.ff|5.006001|p
NV.gf|5.006001|p
New.x|5.009003|p
New.xz|5.009003|p
New.x|5.009003|p
Nullav||
Nullch||
Nullcv||
Nullhv||
Nullsv||
OP_CLASS|5.013007|
OP_DESC|5.007003|
OP_NAME|5.007003|
OP_TYPE.IS. OR.WAS|5.019010|
OP_TYPE.IS|5.019007|
ORIGMARK||
OpHAS_SIBLING|5.021007|p
OpLASTSIB.set|5.021011|p
OpMAYBESIB.set|5.021011|p
OpMORESIB.set|5.021011|p
OpSIBLING|5.021007|p
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||
PAD_RESTORE_LOCAL||
PAD_SAVE_LOCAL||
PAD_SAVE_SETNULLPAD||
PAD_SETSV||
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|5.024000||p
PL_bufptr|5.024000||p
PL_check||5.006000|
PL_compiling|5.004050||p
PL_comppad_name|5.017004|
PL_comppad|5.008001|
PL_copline|5.024000||p
PL_curcop|5.004050||p
PL_curpad|5.005000|
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_errogv|5.004050||p
PL_error_count|5.024000||p
PL_expect|5.024000||p
PL_hexdigit|5.005000||p
PL_hints|5.005000||p
PL_in_my_stash|5.024000||p
PL_in_my|5.024000||p
PL_keyword_plugin|5.011002|
PL_last_in_gv|||n
PL_laststatval|5.005000||p
PL_lex_state|5.024000||p
PL_lex_stuff|5.024000||p
PL_linestr|5.024000||p
PL_modglobal|5.005000|n
PL_na|5.004050||pn
PL_no_modify|5.006000||p
PL_ofsgv|||n
PL_opfreehook|5.011000|n
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|5.024000||p
PL_rsp|5.024000|p
PL_rsp|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|pn
PL_sv_undef|5.004050|pn
PL_sv_yes|5.004050|pn
PL_tainted|5.004050|p
PL_tainting|5.004050|p
PL_tokenbuf|5.024000|p
POP_MULTICALL|5.024000|
POPi||n
POPi||n
POPn||n
POPphytex|5.007001|n
POPpx|5.005030|n
POPp||n
POPs||n
POPu|5.006000|n
POPu|5.004000|n
PTR21V|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|5.024000|
PUSHi||
PUSHmortal|5.009002|p
PUSHn||
PUSHp||
PUSHs||
PUSHu|5.004000|p
PUTBACK||
PadARRAY|5.024000|
PadMAX|5.024000|
PadlistARRAY|5.024000|
PadlistMAX|5.024000|
PadlistNAMESARRAY|5.024000|
PadlistNAMESMAX|5.024000|
PadlistNAMES|5.024000|
PadlistREFCNT|5.017004|
PadnameIsOUR||
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|||
croak_memory_wrap[5.019003]pn
croak_no_mem

croak_no_modify[5.013003]pn
croak_nocontext][pn

croak_popstack][n
croak_sv[5.013001]p
croak_xs_usage[5.010001]pn
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]
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cv_UNDEF]]
cvgv_from_hek]]
cvgv_set]]
cvstash_set]]
cx_dump[5.005000]
cx_dup]]
cx_popblock[5.023008]
cx_popeval[5.023008]
cx_popformat[5.023008]
cx_popgiven[5.023008]
cx_poploop[5.023008]
cx_popsub_args[5.023008]
cx_popsub_common[5.023008]
cx_popsub[5.023008]
cx_popwhen[5.023008]
cx_pushblock[5.023008]
cx_pusheval[5.023008]
cx_pushformat[5.023008]
cx_pushgiven[5.023008]
cx_pushloop_for[5.023008]
cx_pushloop_plain}
cx_pushsub}
cx_pushwhen}
cx_topblock}
cxinc]
dAXMARK]
dAX]
dITEMS]
dMARK]
dMULTICALL]
dMY_CXT_SV]
dMY_CXT]
dNOOP]
dORIGMARK]
dSP]
dTHR]
dTHXR]
dTHXa]
dTHXoa]
dTHX]
dUNDERBAR]
dVAR]
dxCT]
dxSARGS]
dxSI32]
dxSTARG]
deb_curcv]
deb_nocontext]
deb_stack_all]
deb_stack_e]
debop]
deprofdump]
depstackptrs]
depstack]
debug_start_match]
deb]
defelem_target]
del_sv]
delete_eval_scope]
delimcpy]
delecommaless_var_list]
despatch_signals]
destroy_matcher]
die_nocontext]
die_sv]
die_unwind]
die]
dirp_dup
div128
djSP
do_aexec5
do_aexec
do_aspawn
do_binmode[5.004050]
do_chomp
do_close
do_delete_local
do_dump_pad
do_eof
do_exec3
do_execfree
do_exec
do_gv_dump[5.006000]
do_gvgv_dump[5.006000]
do_hv_dump[5.006000]
do_ipcctl
do_ipcget
do_join
do_magic_dump[5.006000]
do_msgrcv
do_msgsnd
do_ncmp
do_oddball
do_op_dump[5.006000]
do_open6
do_open9[5.006000]
do_open_raw
do_opena[5.007001]
do_open[5.003070]
do_pmop_dump[5.006000]
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
doeval_compile
dofile
dofindlabel
doform
doing_taint
dooneliner
doopen_pm
doparseform
dopoptoeval
dopoptogivenfor
dopoptolabel
dopoptoloop
dopoptosub_at
dopoptowhen
doref
dounwind
downtable
drand48_init_r
drand48_r
dtrace_probe_call
dtrace_probe_load
dtrace_probe_op
dtrace_probe_phase
dump_all_perl
dump_all

dump_c_backtrace
dump_eval

dump_exec_pos

dump_form

dump_indent

dump_mstats

dump_packsubs_perl
dump_packsubs

dump_sub_perl
dump_sub

dump_sv_child
dump_trie_interim_list
dump_trie_interim_table
dump_trie
dump_vindent
dumpuntil|||
dup_attrlist|||
edit_distance||||
emulate_cop_10|||
eval_pv|5.006000|p
eval_sv|5.006000|p
eexec_failed|||
expect_number|||
fbm_compile|5.005000|
fbm_instr|5.005000|
feature_is_enabled|||
filter_add|||
filter_del|||
filter_gets|||
filter_read|||
finalize_optree|||
finalize_op|||
find_and_forget_pmops|||
find_array_subscript|||
find_beginning|||
find_byclass|||
find_default_stash|||
find_hash_subscript|||
find_in_my_stash|||
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find_script|||
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first_symbol|||
fixup_errno_string|||
foldEQ_latin1|5.013008|n
foldEQ_locale|5.013002|n
foldEQ_utf8_flags|5.013010|
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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
form_short_octal_warning
form
fp_dup
fprintf_nocontext
free_c_backtrace
free_global_struct
free_tied_hv_pool
free_tmps
gen_constant_list
get_ANYOF_cp_list_for_ssc
get_and_check_backslash_N_name
get_aux_mg
get_av
get_c_backtrace_dump
get_c_backtrace
get_context
get_cvn_flags
get_cvs
get_cv
get_db_sub
get_debug_opts
get_hash_seed
get_hv
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[5.007003][p

grok_infnan[5.021004]
grok_number_flags[5.021002]
grok_number[5.007002][p

grok_numeric_radix[5.007002][p

grok_oct[5.007003][p

group_end][
gv_AVadd][
gv_HVadd][
gv_IOadd][
gv_SVadd][
gv_add_by_type[5.011000]
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gv_autoload_pvn[5.015004]
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gv_autoload_sv[5.015004]
gv_check][
gv_const_sv[5.009003]
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gv_efullname4[5.006001]
gv_efullname][
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gv_fetchfile][
gv_fetchmeth_autoload[5.007003]
gv_fetchmeth_internal][
gv_fetchmeth_pv_autoload[5.015004]
gv_fetchmeth_pv_autoload[5.015004]
gv_fetchmeth_pvn_autoload[5.015004]
gv_fetchmeth_pvn[5.015004]
gv_fetchmeth_pv[5.015004]
gv_fetchmeth_sv_autoload[5.015004]
gv_fetchmeth_sv[5.015004]
gv_fetchmethod_autoload[5.004000]
gv_fetchmethod_pv_flags[5.015004]
gv_fetchmethod_pv_flags[5.015004]
gv_fetchmethod_sv_flags[5.015004]
gv_fetchmethod][
gv_fetchmeth][
gv_fetchpvn_flags[5.009002][p

gv_fetchpv[5.009004][p

gv_fetchpv][
gv_fetchsv][
gv_fullname3[5.003070]
gv_fullname4[5.006001]
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xs_version_bootcheck|||
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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;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$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

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$h->{$_} .= "$1\n";
}

else { undef $hint }
}

$hint = [$_, split /,?s+/, $2]
    if m{^s*srcs\s+\(Hint\|Warning\):s+(\w+(:?s*\w+))s*\}\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;
}

$define = [$_, $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] .= $_;
}

$function = [$_, ""] if m{^DPPP\(\(my\_(\w+)\)\)};

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

if (m{^s*\$rcce\s+(\w+\(\s*\s*\w+\)\s*)\s+depends\s+on\s+(\w+\(\s*\s*\w+\)\s*)\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 if m{'^#if\s+defined\(NEED_(\w+)\(\w+\)?_GLOBAL\)?\)'};
}
for (values %depends) {
my %s;
$_ = [sort grep !$_{$_}++, @$_];
}
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";
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: \n\n" if exists $depends{$f};
print "\nWARNING:\n$warnings{$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'}'.";
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 $xsc{$_} || /\Q$ppport\E$s/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]* ) )
}{ 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;

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$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\}') {
        $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\$_;
        }
    }
}
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}) {
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*}
{$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}) {

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if (exists $file{usesdeps}[$func]) {
    diag("Uses $func, which depends on ", join(’,’, @{$file{usesdeps}[$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 'sppport'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
"
        }
    }

    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$HS+NEED_\w+).*$/S$pp/ms)
            || ($c =~ s/^(?=$HS*#$HS*include.*XSUB.*?\s*?)^/$1$pp/m)
            || ($c =~ s/^(?=$HS*#$HS*include.*XSUB.*?\s*?)^/$1$pp/m)
            || ($c =~ s/^(?=$HS*#$HS*include.*XSUB.*?\s*?)^/$1$pp/m)
            || ($c =~ s/^(?=$HS*#$HS*include.*XSUB.*?\s*?)^/$1$pp/m)
            || ($c =~ s/^(?=$HS*#$HS*include.*XSUB.*?\s*?)^/$1$pp/m)
            || ($c =~ s/^(?=$HS*#$HS*include.*XSUB.*?\s*?)^/$1$pp/m)
            || ($c =~ s/^(?=$HS*#$HS*include.*XSUB.*?\s*?)^/$1$pp/m)
            || ($c =~ s/^(?=$HS*#$HS*include.*XSUB.*?\s*?)^/$1$pp/m)
            || ($c =~ s/^(?=$HS*#$HS*include.*XSUB.*?\s*?)^/$1$pp/m)
    }

    else {
        if ($file{has_inc_ppport}) {
            diag("No need to include '$ppport'");
            $file{changes} += ($c =~ s/^$HS*?#$HS*include.*?$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 {
        $c =~ s/$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: $!");
            }
        }
    } 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: $!");
                }
            } elsif (exists $opt{changes}) {
                if (exists $opt{changes}) {
                    unless ($patch_opened) {
                        if (open PATCH, ">$opt{changes}") {
                            $patch_opened = 1;
                        } else {
                            error("Cannot open '$opt{changes}' 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 (!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 $tmp |") {
            while (<F>) {
                s/Quart\$tmp\$V/Q$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+/) { 
    return ($1, $2, $3); 
  } elsif ($ver !~ /^[0-9]+\.[0-9]+$/) { 
    die "cannot parse version \$ver\n";
  }
  $ver =~ s/_//g;
  $ver =~ s/$/000000/;
  my($r,$v,$s) = $ver =~ /\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+/; 
  $v = int $v;
  $s = int $s;
  return ($r, $v, $s);
}
```
$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\$HS+COPYRIGHT\s*^(.*?)\$=\w+/ms;
  $copy =~ s/^(?=$)/    /gms;
  $self =~ s/^\$HS+Do NOT edit.*?(?=^-)/$copy/ms;
  $self =~ s/^\$SKIP.*(?=^__DATA__)/$\$\$$/g;
  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;
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---

abstract: 'persistence for Perl data structures'
author: - 'Perl 5 Porters'
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: Storable
no_index:
directory:
  - t
  - inc
provides:
  Storable:
    file: __Storable__.pm
    version: '3.11'
requires:
  XSLoader: '0'
resources:
  bugtracker: http://rt.perl.org/perlbug/
  version: '3.11'
  x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
  * /opt/cola/permits/1162151911_1620794143.22/0/perl-Storable-3.11-3.el8-1.src.rpm-cosi-expand-archive-
    EhM2Ml2k/Storable-3.11_repackaged.tar.gz-cosi-expand-archive-0Xjdn2dN/Storable-3.11/META.yml
  No license file was found, but licenses were detected in source scan.

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Found in path(s):
  * /opt/cola/permits/1162151911_1620794143.22/0/perl-Storable-3.11-3.el8-1.src.rpm-cosi-expand-archive-
    EhM2Ml2k/Storable-3.11_repackaged.tar.gz-cosi-expand-archive-0Xjdn2dN/Storable-3.11/t/forgive.t

1.106 python3-mod_wsgi 4.6.4 4.el8
1.106.1 Available under license:

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1.107 python3-zake 0.2.2 14.el8ost

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1.113 ustr 1.0.4-6.debian

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1.114 pyyaml 3.12

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1.115 davecgh-go-spew v1.1.1 8991bc2

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1.120 readline 7.0-3.debian

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Upstream source:
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Author: Per Bothner

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1.129 radvd 2.17 14.el8
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1.130 libcacard 2.7.0 2.el8_1

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1.135 python3-django-compressor 2.2

4.el8ost

1.135.1 Available under license:

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utils.FormattableString

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1.136 python3-rjsmin 1.0.12 5.el8ost

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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
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modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

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

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Version 2, June 1991

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

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1.140 libedit 3.1 23.20170329cvs.el8

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1.141 parted 3.2 38.el8
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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This
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End:
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1.151 python3-prettytable 0.7.2 14.el8

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1.152 libbasicobjects 0.1.1 39.el8

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1.153 openstack-ironic-ui 3.5.5
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1.154 minitest 5.11.3

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# more details.

Found in path(s):
* /opt/cola/permits/1110790377_1606854384.85/0/minitest-5-11-3-4-gem/data-tar-gz/lib/minitest/benchmark.rb
No license file was found, but licenses were detected in source scan.

= minitest/{test,spec,mock,benchmark}

home :: https://github.com/seattlerb/minitest
bugs :: https://github.com/seattlerb/minitest/issues
rdoc :: http://docs.seattlerb.org/minitest
vim :: https://github.com/sunaku/vim-ruby-minitest
emacs:: https://github.com/arthurnn/minitest-emacs

== DESCRIPTION:

minitest provides a complete suite of testing facilities supporting TDD, BDD, mocking, and benchmarking.

"I had a class with Jim Weirich on testing last week and we were allowed to choose our testing frameworks. Kirk Haines and I were paired up and we cracked open the code for a few test frameworks...

I MUST say that minitest is *very* readable / understandable compared to the 'other two' options we looked at. Nicely done and thank you for helping us keep our mental sanity."

-- Wayne E. Seguin

minitest/test is a small and incredibly fast unit testing framework. It provides a rich set of assertions to make your tests clean and readable.

minitest/spec is a functionally complete spec engine. It hooks onto
minitest/test and seamlessly bridges test assertions over to spec expectations.

minitest/benchmark is an awesome way to assert the performance of your algorithms in a repeatable manner. Now you can assert that your newb co-worker doesn't replace your linear algorithm with an exponential one!

minitest/mock by Steven Baker, is a beautifully tiny mock (and stub) object framework.

minitest/pride shows pride in testing and adds coloring to your test output. I guess it is an example of how to write IO pipes too. :P

minitest/test is meant to have a clean implementation for language implementors that need a minimal set of methods to bootstrap a working test suite. For example, there is no magic involved for test-case discovery.

"Again, I can't praise enough the idea of a testing/specing framework that I can actually read in full in one sitting!"

-- Piotr Szotkowski

Comparing to rspec:

rspec is a testing DSL. minitest is ruby.

-- Adam Hawkins, "Bow Before MiniTest"

minitest doesn't reinvent anything that ruby already provides, like: classes, modules, inheritance, methods. This means you only have to learn ruby to use minitest and all of your regular OO practices like extract-method refactorings still apply.

== FEATURES/PROBLEMS:

* minitest/autorun - the easy and explicit way to run all your tests.
* minitest/test - a very fast, simple, and clean test system.
* minitest/spec - a very fast, simple, and clean spec system.
* minitest/mock - a simple and clean mock/stub system.
* minitest/benchmark - an awesome way to assert your algorithm's performance.
* minitest/pride - show your pride in testing!
* Incredibly small and fast runner, but no bells and whistles.
* Written by squishy human beings. Software can never be perfect. We will all eventually die.

== RATIONALE:
See design_rationale.rb to see how specs and tests work in minitest.

== SYNOPSIS:

Given that you'd like to test the following class:

```ruby
class Meme
  def i_can_has_cheezburger?
    "OHAI!"
  end

  def will_it_blend?
    "YES!"
  end
end
```

=== Unit tests

Define your tests as methods beginning with `+test_+`.

```ruby
require "minitest/autorun"

class TestMeme < Minitest::Test
  def setup
    @meme = Meme.new
  end

  def test_that_kitty_can_eat
    assert_equal "OHAI!", @meme.i_can_has_cheezburger?
  end

  def test_that_it_will_not_blend
    refute_match /^no/i, @meme.will_it_blend?
  end

  def test_that_will_be_skipped
    skip "test this later"
  end
end
```

=== Specs

```ruby
require "minitest/autorun"

describe Meme do
  before do
    @meme = Meme.new
  end
```
describe "when asked about cheeseburgers" do
  it "must respond positively" do
    @meme.i_can_has_cheezburger?.must_equal "OHAI!"
  end
end

describe "when asked about blending possibilities" do
  it "won't say no" do
    @meme.will_it_blend?.wont_match /^no/i
  end
end
end

For matchers support check out:

* https://github.com/wojtekmach/minitest-matchers
* https://github.com/rmm5t/minitest-matchers_vaccine

=== Benchmarks

Add benchmarks to your tests.

# optionally run benchmarks, good for CI-only work!
require "minitest/benchmark" if ENV["BENCH"]

class TestMeme < Minitest::Benchmark
  # Override self.bench_range or default range is [1, 10, 100, 1_000, 10_000]
  def bench_my_algorithm
    assert_performance_linear 0.9999 do |n| # n is a range value
      @obj.my_algorithm(n)
    end
  end
end

Or add them to your specs. If you make benchmarks optional, you'll need to wrap your benchmarks in a conditional since the methods won't be defined. In minitest 5, the describe name needs to match <tt>/Bench(mark)?$/</tt>.

describe "Meme Benchmark" do
  if ENV["BENCH"] then
    bench_performance_linear "my_algorithm", 0.9999 do |n|
      100.times do
        @obj.my_algorithm(n)
      end
    end
  end
end

outputs something like:

# Running benchmarks:

TestBlah100100010000
bench_my_algorithm 0.006167 0.079279 0.786993
bench_other_algorithm 0.061679 0.792797 7.869932

Output is tab-delimited to make it easy to paste into a spreadsheet.

=== Mocks

Mocks and stubs defined using terminology by Fowler & Meszaros at http://www.martinfowler.com/bliki/TestDouble.html:

"Mocks are pre-programmed with expectations which form a specification of the calls they are expected to receive. They can throw an exception if they receive a call they don't expect and are checked during verification to ensure they got all the calls they were expecting."

class MemeAsker
  def initialize(meme)
    @meme = meme
  end

  def ask(question)
    method = question.tr(" ", "_").strip + "?"
    @meme.__send__(method)
  end
end

require "minitest/autorun"

describe MemeAsker, :ask do
  describe "when passed an unpunctuated question" do
    it "should invoke the appropriate predicate method on the meme" do
      @meme = Minitest::Mock.new
      @meme_asker = MemeAsker.new @meme
      @meme.expect :will_it_blend?, :return_value

      @meme_asker.ask "will it blend"

      @meme.verify
    end
  end
end
**Multi-threading and Mocks**

Minitest mocks do not support multi-threading if it works, fine, if it doesn't you can use regular ruby patterns and facilities like local variables. Here's an example of asserting that code inside a thread is run:

```ruby
def test_called_inside_thread
  called = false
  pr = Proc.new { called = true }
  thread = Thread.new(&pr)
  thread.join
  assert called, "proc not called"
end
```

=== Stubs

Mocks and stubs are defined using terminology by Fowler & Meszaros at http://www.martinfowler.com/bliki/TestDouble.html:

"Stubs provide canned answers to calls made during the test".

Minitest's stub method overrides a single method for the duration of the block.

```ruby
def test_stale_eh
  obj_under_test = Something.new

  refute obj_under_test.stale?

  Time.stub :now, Time.at(0) do  # stub goes away once the block is done
    assert obj_under_test.stale?
  end
end
```

A note on stubbing: In order to stub a method, the method must actually exist prior to stubbing. Use a singleton method to create a new non-existing method:

```ruby
def obj_under_test.fake_method
  ...
end
```

=== Running Your Tests

Ideally, you'll use a rake task to run your tests, either piecemeal or all at once. Both rake and rails ship with rake tasks for running your tests. BUT! You don't have to:
% ruby -Ilib:test test/minitest/test_minitest_test.rb
Run options: --seed 37685

# Running:

................................................. (etc)

Finished in 0.107130s, 1446.8403 runs/s, 2959.0217 assertions/s.

155 runs, 317 assertions, 0 failures, 0 errors, 0 skips

There are runtime options available, both from minitest itself, and also
provided via plugins. To see them, simply run with +--help+:

% ruby -Ilib:test test/minitest/test_minitest_test.rb --help
minitest options:
  -h, --help Display this help.
  -s, --seed SEED Sets random seed. Also via env. Eg: SEED=n rake
  -v, --verbose Verbose. Show progress processing files.
  -n, --name PATTERN Filter run on /regexp/ or string.
  -e, --exclude PATTERN Exclude /regexp/ or string from run.

Known extensions: pride, autotest
  -p, --pride Pride. Show your testing pride!
  -a, --autotest Connect to autotest server.

== Writing Extensions

To define a plugin, add a file named minitest/XXX_plugin.rb to your
project/gem. That file must be discoverable via ruby's LOAD_PATH (via
rubygems or otherwise). Minitest will find and require that file using
Gem.find_files. It will then try to call +plugin_XXX_init+ during
startup. The option processor will also try to call +plugin_XXX_options+
passing the OptionParser instance and the current options hash. This
lets you register your own command-line options. Here's a totally
bogus example:

# minitest/bogus_plugin.rb:

module Minitest
  def self.plugin_bogus_options(opts, options)
    opts.on "--myci", "Report results to my CI" do
      options[:myci] = true
      options[:myci_addr] = get_myci_addr
      options[:myci_port] = get_myci_port
    end
  end
end
def self.plugin_bogus_init(options)
    self.reporter << MyCI.new(options) if options[:myci]
end
end

== Adding custom reporters

Minitest uses composite reporter to output test results using multiple reporter instances. You can add new reporters to the composite during the init_plugins phase. As we saw in +plugin_bogus_init+ above, you simply add your reporter instance to the composite via <tt>&lt;&lt;</tt>.

+AbstractReporter+ defines the API for reporters. You may subclass it and override any method you want to achieve your desired behavior.

- start :: Called when the run has started.
- record :: Called for each result, passed or otherwise.
- report :: Called at the end of the run.
- passed? :: Called to see if you detected any problems.

Using our example above, here is how we might implement MyCI:

# minitest/bogus_plugin.rb

module Minitest
    class MyCI < AbstractReporter
        attr_accessor :results, :addr, :port

        def initialize options
            self.results = []
            self.addr = options[:myci_addr]
            self.port = options[:myci_port]
        end

        def record result
            self.results << result
        end

        def report
            CI.connect(addr, port).send_results self.results
        end
    end

    # code from above...
end

== FAQ
=== How to test SimpleDelegates?

The following implementation and test:

```ruby
class Worker < SimpleDelegator
  def work
   end
end

describe Worker do
  before do
    @worker = Worker.new(Object.new)
  end

  it "must respond to work" do
    @worker.must_respond_to :work
  end
end
```

outputs a failure:

```
1) Failure:
 Worker#test_0001_must respond to work [bug11.rb:16]:
 Expected #<Object:0x007f9e7184f0a0> (Object) to respond to #work.
```

Worker is a SimpleDelegate which in 1.9+ is a subclass of BasicObject. Expectations are put on Object (one level down) so the Worker (SimpleDelegate) hits +method_missing+ and delegates down to the +Object.new+ instance. That object doesn't respond to work so the test fails.

You can bypass `<tt>SimpleDelegate#method_missing</tt>` by extending the worker with `<tt>Minitest::Expectations</tt>`. You can either do that in your setup at the instance level, like:

```ruby
before do
  @worker = Worker.new(Object.new)
  @worker.extend Minitest::Expectations
end
```

or you can extend the Worker class (within the test file!), like:

```ruby
class Worker
  include ::Minitest::Expectations
end
```

=== How to share code across test classes?
Use a module. That's exactly what they're for:

```ruby
module UsefulStuff
  def useful_method
    # ...
  end
end

describe Blah do
  include UsefulStuff

  def test_whatever
    # useful_method available here
  end
end
```

Remember, `describe` simply creates test classes. It's just ruby at the end of the day and all your normal Good Ruby Rules (tm) apply. If you want to extend your test using setup/teardown via a module, just make sure you ALWAYS call super. before/after automatically call super for you, so make sure you don't do it twice.

```ruby
=== How to run code before a group of tests?

Use a constant with begin...end like this:

```ruby
describe Blah do
  SETUP = begin
    # ... this runs once when describe Blah starts
  end

  # ...
end
```

This can be useful for expensive initializations or sharing state. Remember, this is just ruby code, so you need to make sure this technique and sharing state doesn't interfere with your tests.

```ruby
=== Why am I seeing `<tt>uninitialized constant MiniTest::Test (NameError)</tt>`?

Are you running the test with Bundler (e.g. via `<tt>bundle exec</tt>`)? If so, in order to require minitest, you must first add the `<tt>gem 'minitest'</tt>` to your Gemfile and run `+bundle+`. Once it's installed, you should be able to require minitest and run your tests.

```ruby
== Prominent Projects using Minitest:

* arel
* journey
* mime-types
* nokogiri
* rails (active_support et al)
* rake
* rdoc
* ...and of course, everything from seattle.rb...

== Developing Minitest:

=== Minitest's own tests require UTF-8 external encoding.

This is a common problem in Windows, where the default external Encoding is often CP850, but can affect any platform.
Minitest can run test suites using any Encoding, but to run Minitest's own tests you must have a default external Encoding of UTF-8.

If your encoding is wrong, you'll see errors like:

--- expected
+++ actual
@@ -1,2 +1,3 @@
 # encoding: UTF-8
-"Expected /\w+/ to not match "blah blah blah"."
+"Expected /\w+/ to not match # encoding: UTF-8
 +"blah blah blah"."

To check your current encoding, run:

ruby -e 'puts Encoding.default_external'

If your output is something other than UTF-8, you can set the RUBYOPTS env variable to a value of -Eutf-8. Something like:

RUBYOPT='-Eutf-8' ruby -e 'puts Encoding.default_external'

Check your OS/shell documentation for the precise syntax (the above will not work on a basic Windows CMD prompt, look for the SET command). Once you've got it successfully outputing UTF-8, use the same setting when running rake in Minitest.

=== Minitest's own tests require GNU (or similar) diff.

This is also a problem primarily affecting Windows developers. PowerShell has a command called diff, but it is not suitable for use with Minitest.

If you see failures like either of these, you are probably missing diff tool:
4) Failure:
TestMinitestUnitTestCase#test_assert_equal_different_long
[D:/ruby/seattlerb/minitest/test/minitest/test_minitest_test.rb:936]:
  Expected: "--- expected
+++ actual
@@ -1 +1 @@
-"hahahahahahahahahahahahahahahahahahaha"
+"blahblahblahblahblahblahblahblahblah"
"
  Actual: "Expected: "hahahahahahahahahahahahahahahahahahaha"
"blahblahblahblahblahblahblahblah"
"

5) Failure:
TestMinitestUnitTestCase#test_assert_equal_different_collection_hash_hex_invisible
[D:/ruby/seattlerb/minitest/test/minitest/test_minitest_test.rb:845]:
  Expected: "No visible difference in the Hash#inspect output.
You should look at the implementation of #== on Hash or its members.
{
1=>#<Object:0xXXXXXX>}
"
  Actual: "Expected: {1=>#<Object:0x0000003ba0470>}
Actual: {1=>#<Object:0x0000003ba0448>}
"

If you use Cygwin or MSYS2 or similar there are packages that include a
GNU diff for Windows. If you don't, you can download GNU diffutils from
http://gnuwin32.sourceforge.net/packages/diffutils.htm
(make sure to add it to your PATH).

You can make sure it's installed and path is configured properly with:

diff.exe -v

There are multiple lines of output, the first should be something like:

diff (GNU diffutils) 2.8.1

If you are using PowerShell make sure you run diff.exe, not just diff,
which will invoke the PowerShell built in function.

== Known Extensions:

capybara_minitest_spec :: Bridge between Capybara RSpec matchers and
Minitest::Spec expectations (e.g.
	<tt>page.must_have_content("Title")</tt>).
color_pound_spec_reporter :: Test names print Ruby Object types in color with
your Minitest Spec style tests.
minispec-metadata :: Metadata for describe/it blocks & CLI tag filter.
	E.g. <tt>it "requires JS driver", js: true do</tt> &
	<tt>ruby test.rb --tag js</tt> runs tests tagged :js.
minispec-rails :: Minimal support to use Spec style in Rails 5+.
minitest-around :: Around support to use Spec style in Rails 5+.
setup/teardown dance.
minitest-assert_errors :: Adds Minitest assertions to test for errors raised
or not raised by Minitest itself.

minitest-autotest :: autotest is a continuous testing facility meant to be used during development.

minitest-bacon :: minitest-bacon extends minitest with bacon-like functionality.

minitest-bang :: Adds support for RSpec-style let! to immediately invoke let statements before each test.

minitest-bisect :: Helps you isolate and debug random test failures.

minitest-blink1_reporter :: Display test results with a Blink1.

minitest-capistrano :: Assertions and expectations for testing Capistrano recipes.

minitest-capybara :: Capybara matchers support for minitest unit and spec.

minitest-chef-handler :: Run Minitest suites as Chef report handlers

minitest-ci :: CI reporter plugin for Minitest.

minitest-context :: Defines contexts for code reuse in Minitest specs that share common expectations.

minitest-debugger :: Wraps assert so failed assertions drop into the ruby debugger.

minitest-display :: Patches Minitest to allow for an easily configurable output.

minitest-documentation :: Minimal documentation format inspired by rspec's.

minitest-doc_reporter :: Detailed output inspired by rspec's documentation format.

minitest-emoji :: Print out emoji for your test passes, fails, and skips.

minitest-english :: Semantically symmetric aliases for assertions and expectations.

minitest-excludes :: Clean API for excluding certain tests you don't want to run under certain conditions.

minitest-fail-fast :: Reimplements RSpec's "fail fast" feature

minitest-filecontent :: Support unit tests with expectation results in files. Differing results will be stored again in files.

minitest-filesystem :: Adds assertion and expectation to help testing filesystem contents.

minitest-firemock :: Makes your Minitest mocks more resilient.

minitest-focus :: Focus on one test at a time.

minitest-gcstats :: A minitest plugin that adds a report of the top tests by number of objects allocated.

minitest-great_expectations :: Generally useful additions to minitest's assertions and expectations.

minitest-growl :: Test notifier for minitest via growl.

minitest-happy :: GLOBALLY ACTIVATE MINITEST PRIDE! RAWR!

minitest-have_tag :: Adds Minitest assertions to test for the existence of HTML tags, including contents, within a provided string.

minitest-hooks :: Around and before_all/after_all/around_all hooks

minitest-hyper :: Pretty, single-page HTML reports for your Minitest runs

minitest-implicit-subject :: Implicit declaration of the test subject.
minitest-instrument :: Instrument ActiveSupport::Notifications when test method is executed.
minitest-instrument-db :: Store information about speed of test execution provided by minitest-instrument in database.
minitest-junit :: JUnit-style XML reporter for minitest.
minitest-keyword :: Use Minitest assertions with keyword arguments.
minitest-libnotify :: Test notifier for minitest via libnotify.
minitest-line :: Run test at line number.
minitest-logger :: Define assert_log and enable minitest to test log messages. Supports Logger and Log4r::Logger.
minitest-macruby :: Provides extensions to minitest for macruby UI testing.
minitest-matchers :: Adds support for RSpec-style matchers to Minitest.
minitest-matchers_vaccine :: Adds assertions that adhere to the matcher spec, but without any expectation infections.
minitest-metadata :: Annotate tests with metadata (key-value).
minitest-mongoid :: Mongoid assertion matchers for Minitest.
minitest-must_not :: Provides must_not as an alias for wont in Minitest.
minitest-optional_retry :: Automatically retry failed test to help with flakiness.
minitest-osx :: Reporter for the Mac OS X notification center.
minitest-parallel_fork :: Fork-based parallelization
minitest-parallel-db :: Run tests in parallel with a single database.
minitest-power ASSERT :: PowerAssert for Minitest.
minitest-predicates :: Adds support for .predicate? methods.
minitest-profile :: List the 10 slowest tests in your suite.
minitest-rails :: Minitest integration for Rails 3.x.
minitest-rails-capybara :: Capybara integration for Minitest::Rails.
minitest-reporters :: Create customizable Minitest output formats.
minitest-rg :: Colored red/green output for Minitest.
minitest-rspec_mocks :: Use RSpec Mocks with Minitest.
minitest-server :: minitest-server provides a client/server setup with your minitest process, allowing your test run to send its results directly to a handler.
minitest-sequel :: Minitest assertions to speed-up development and testing of Ruby Sequel database setups.
minitest-shared_description :: Support for shared specs and shared spec subclasses
minitest-should syntax :: RSpec-style <tt>x.should == y</tt> assertions for Minitest.
minitest-shouldify :: Adding all manner of shoulds to Minitest (bad idea)
minitest-snail :: Print a list of tests that take too long
minitest-spec-context :: Provides rspec-ish context method to Minitest::Spec.
minitest-spec-expect :: Expect syntax for Minitest::Spec (e.g. expect(sequences).to_include :celery_man).
minitest-spec-magic :: Minitest::Spec extensions for Rails and beyond.
minitest-spec-rails :: Drop in Minitest::Spec superclass for
ActiveSupport::TestCase.
minitest-sprint :: Runs (Get it? It's fast!) your tests and makes
it easier to rerun individual failures.
minitest-stately :: Find leaking state between tests
minitest-stub_any_instance :: Stub any instance of a method on the given class
for the duration of a block.
minitest-stub-const :: Stub constants for the duration of a block.
minitest-tags :: Add tags for minitest.
minitest-unordered :: Adds a new assertion to minitest for checking the
contents of a collection, ignoring element order.
minitest-vcr :: Automatic cassette managment with Minitest::Spec
and VCR.
minitest_owrapper :: Get tests results as a TestResult object.
minitest_should :: Shoulda style syntax for minitest test::unit.
minitest_tu_shim :: Bridges between test/unit and minitest.
mongoid-minitest :: Minitest matchers for Mongoid.
pry-rescue :: A pry plugin w/ minitest support. See
pry-rescue/minitest.rb.
rspec2minitest :: Easily translate any RSpec matchers to Minitest
assertions and expectations.

== Unknown Extensions:

Authors... Please send me a pull request with a description of your minitest extension.

* assay-minitest
* detroit-minitest
* em-minitest-spec
* flexmock-minitest
* guard-minitest
* guard-minitest-decisiv
* minitest-activemodel
* minitest-ar-assertions
* minitest-capybara-unit
* minitest-colorer
* minitest-deluxe
* minitest-extra-assertions
* minitest-rails-shoulda
* minitest-spec
* minitest-spec-should
* minitest-sugar
* spork-minitest

== Minitest related goods

== REQUIREMENTS:

* Ruby 1.8.7+. No magic is involved. I hope.
* NOTE: 1.8 and 1.9 will be dropped in minitest 6+.

== INSTALL:

    sudo gem install minitest

On 1.9, you already have it. To get newer candy you can still install
the gem, and then requiring "minitest/autorun" should automatically
pull it in. If not, you'll need to do it yourself:

    gem "minitest"  # ensures you"re using the gem, and not the built-in MT
require "minitest/autorun"

    # ... usual testing stuffs ...

DO NOTE: There is a serious problem with the way that ruby 1.9/2.0
packages their own gems. They install a gem specification file, but
don't install the gem contents in the gem path. This messes up
Gem.find_files and many other things (gem which, gem contents, etc).

Just install minitest as a gem for real and you'll be happier.

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1.157 librabbitmq 0.9.0 1.el8

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1.158 tzinfo 1.2.5

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1.159 python-setuptools 40.6.3

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Further development
-------------------

Although PySNMP is already a mature software and it is being used at many places, the ultimate goal of the project is to implement most of the useful features that SNMP standards can offer. What follows is a list of most prominent missing features that PySNMP developers are planning to put their hands on in the future.

PySNMP library
+++++++++++

#. Built-in MIB parser. PySNMP uses a data model of its own to work with information contained in MIB files. To convert ASN.1-based MIB texts into Python modules, an off-line, third-party tool is employed. As it turns out, this approach has two major drawback: one is that PySNMP users may need to pre-process MIB texts to use them with their PySNMP-based applications. Another is that LibSMI's Python driver seems to miss some information carried by MIBs. Thus the solution would be to write another MIB parser and code generator which would produce PySNMP compliant Python code right from MIB text files all by itself.

**Done:** see `PySMI project <http://snmplabs.com/pysmi/>`_ in conjuction with the latest PySNMP codebase.

#. Reverse MIB index. The variable-bindings received by the system whilst in Manager role could be post-processed using the information kept in MIB files to include human-friendly OIDs names, tables indices and values representation. However, there is currently no provisioning in the PySNMP system for locating and loading up MIB files containing additional information on arbitrary OIDs. So the idea is to maintain an OID-to-MIB index to let PySNMP load relevant MIB automatically on demand.
#. Stream sockets support. Currently, PySNMP transport subsystem only supports datagram-type network sockets. That covers UDP-over-IPv4 and UDP-over-IPv6. However, SNMP engine can potentially run over stream-oriented protocols what would let it support TCP-over-IPv4, TCP-over-IPv6 and SSL/TSL transports. Neither of these is currently implemented with PySNMP.

#. AgentX implementation. We anticipate many uses of this. For instance, having AgentX protocol support in pure-Python would let us write AgentX modules in pure-Python and attach them to high-performance Net-SNMP Agent. Or we could build and maintain a fully-featured, stand-alone PySNMP-based Agent so that users would write their own AgentX extensions what would comprise a complete SNMP Agent solution at lesser effort.

#. A DBMS-based SMI. Currently implemented SMI takes shape of live Python objects that let user hook up his own handler on any existing Managed Object Instance. That's flexible and working approach in many cases, however sometimes, for instance when Management Instrumentation is inherently DBMS-based, it may be more efficient to move the entire SMI/MIB subsystem into a database. PySNMP engine would talk to it through its simple and well defined SMI API.

Stand-alone PySNMP-based tools

++++++++++++++++++++++++++++++

#. SNMP Proxy Forwarder. That would be a stand-alone, application-level proxy service supporting all SNMP versions, multiple network transports, Command and Notification SNMP message types. Its anticipated features include extensive configuration facilities, fine-grained access control and logging.

**Done:** see `SNMP Proxy Forwarder <http://snmplabs.com/snmpfwd/>`

#. SNMP Trap Receiver. We see this application as a simple yet flexible SNMP TRAP collector. It would listen on network sockets of different types receiving SNMP TRAP/INFORM notifications over any SNMP version and putting all the details into a database and possibly triggering external events.

#. Database backend for SNMP Simulator. We have already built a tool for simulating SNMP Agents based on a snapshot of their Management Instrumentation state. Current implementation uses a plain-text file for keeping and possibly managing the snapshot. Many users of the Simulator software requested a value variation feature to be supported so that simulated Agents would look live, not static. We consider this variation and also dependencies features would be best implemented as a relational database application. So we are planning to put some more efforts into the Simulator project as time permits.
**Done:** since `snmpsim-0.2.4 <http://snmplabs.com/snmpsim/>`_

If you need some particular feature - please, `open a feature request <https://github.com/etingof/pysnmp/issues/new>`_. Once we see a greater demand in particular area, we would re-arrange our development resources to meet it sooner.

You could greater speed up the development of particular feature by sponsoring it. Please get back to us to discuss details.

Contributions to the PySNMP source code is greatly appreciated as well. We require contributed code to run with Python 2.4 through the latest Python version (which is 3.7 at the time of this writing). Contributed code will be redistributed under the terms of the same `license <http://snmplabs.com/pysnmp/>`_ as PySNMP is.

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Revision 4.4.8, released 2018-12-30
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- Fixed Pythonized MIB load (in the source form) - made sure to turn it into a code object prior to its execution

Revision 4.4.7, released 2018-12-29
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- Copyright notice extended to the year 2019
- Exposed ASN.1 `Null` type through `rfc1902` module for convenience.
- Use `compile()` before `exec`ing MIB modules to attach filename to the stack frames (ultimately shown in traceback/debugger)
- Fixed hlapi/v3arch transport target caching to ensure transport targets are different even if just timeout/retries options differ
- Fixed hlapi LCD configurator to include `contextName`. Prior to this fix sending SNMPv3 TRAP with non-default `contextName` would fail.
- Fixed possible duplicate key occurrence in the `OrderedDict` following a race condition
- Fixed undefined name references in `inet_pton`/`inet_ntop` substitute routines for IPv6 in `TRANSPORT-ADDRESS-MIB.py`

Revision 4.4.6, released 2018-09-13

- Improved package build and dependency tracking
- Fixed missing LICENSE from the tarball distribution
- Fixed `CommandGeneratorLcdConfigurator.unconfigure()` to fully clean up internal caches, otherwise repetitive attempts to configure the target would fail.
- Fix to tolerate possible duplicate enumerations in `Bits` and `Integer` SMI types.
- Fix to tolerate non-initialised entries in SNMP community table. Once a bad entry sneak into the SNMP community table, all the subsequent SNMP v1/v2c operations failed. The fix ignores incomplete SNMP community table entries in the course of building indices.

Revision 4.4.5, released 2018-08-05

- Added PySnmpError.cause attribute holding parent exception tuple
- Fixed broken InetAddressType rendering caused by a pyasn1 regression
- Fixed typo in RFC1158 module
- Fixed possible infinite loop in GETBULK response PDU builder
- Fixed memory leak in the `config.delContext()` VACM management harness
- Fixed `Bits` class initialization when enumeration values are given
- Fixed crash caused by incoming SNMPv3 message requesting SNMPv1/v2c security model
- Fixed out-of-scope OIDs leaking at the end of SNMP table at hlapi `nextCmd` and `bulkCmd` calls when `lexicographicMode = False`

Revision 4.4.4, released 2018-01-03

- Copyright notice extended to the year 2018
- Fixed short local key expansion at 3DES key localization implementation.

Revision 4.4.3, released 2017-12-22

- Migrated references from SourceForge
- Added missing SHA2 support for Blumenthal key localization
- Fixed named bits handling at rfc1902.Bits
- Fixed missing SmiError exception class at pysnmp.proto.rfc1155
- Fixed SNMP v1->v2c PDU proxy -- error-status & error-index fields from v1 PDU get copied over to v2c PDU in addition to the exception
sentinels being set

Revision 4.4.2, released 2017-11-11
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- The pysnmp version being used gets exposed to the MIB modules via the `MibBuilder` instance
- The .setObjects() method of the SMI types now accepts `append=False` parameter to let the caller adding more than 255 elements over the course of multiple calls
- Added support for some more missing fields of SMIv2 MACRO types
- Example scripts rearranged in a way that IPv6 requirement is clearly encoded in the script’s name
- Fixed SNMPv2-SMI.NotificationType to expose .set/getReference() instead of .set/getRevision() which should not be there in the first place
- Fixed non-implied-OID encoding in SNMP table indices
- Fixed inconsistent SNMPv3 discovery and retrying algorithm

Revision 4.4.1, released 2017-10-23
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- HMAC-SHA-2 Authentication Protocols support added (RFC-7860)
- The pycryptodome dependency replaced with pycryptodomex as it is recommended by the upstream to avoid unwanted interference with PyCrypto package should it also be installed
- Sphinx theme changed to Alabaster in the documentation
- Minor adjustments towards pyasn1 0.4.x compatibility
- Fixed ObjectIdentifier-into-ObjectIdentity casting at rfc1902.ObjectType MIB resolution harness
- Fixed NetworkAddress object handling in SNMP table indices
- Fixed MIB lookup by module:object.indices MIB object with InetAddressIPv{4,6} objects being in the index
- Fixed non-translated PDU being retries at CommandGenerator what leads to wrong PDU version being sent and even a crash on incompatible PDU/SNMP message combination

Revision 4.3.10, released 2017-10-06
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- Refactored partial SNMP message decoding to make it less dependent on unpublished pyasn1 API features.
- Fix to MibNameRow.setFromName() to keep the input parameter type when it propagates to the return value. Before this fix ObjectIdentity.prettyPrint() may crash when rendering malformed SNMP table indices.
- Fixed NotificationReceiver to include SNMPv1 TRAP Message community string into SNMPv2c/v3 TRAP PDU
- Fixed multiple bugs in SNMP table indices rendering, especially the InetAddressIPv6 type which was severely broken.
- Fixed crashing Bits.prettyPrint() implementation
- Fixed crashing Bits.clone()/subtype() implementation
- Fixed leaking exceptions bubbling up from the asyncio and Twisted adapters

Revision 4.3.9, released 2017-07-26

- Deprecated UsmUserData initialization parameters removed
- Adapted to pyasn1 API changes introduced by release 0.3.1
- Fix to a crash happening on inbound SNMP message having non-initialized fields
- Fix to (persistent SNMP engine ID) file writing on Windows

Revision 4.3.8, released 2017-06-15

- Security fix to the bug introduced in 4.3.6: msgAuthoritativeEngineTime stopped changing over time and was returning the same timestamp (process start time). This fix makes it growing as it should.

Revision 4.3.7, released 2017-05-29

* Fixed import error in legacy NotificationOriginator implementation

Revision 4.3.6, released 2017-05-28

- More instrumentation hooks added addressing security failures auditing needs.
- SNMP table indices correlation implemented within SMI framework.
  The opaque InetAddress type implemented. INET-ADDRESS-MIB included into the distribution.
- SNMP table indices resolution logic made more robust against malformed indices.
- Fixes to *lexicographicMode* option documentation to make it unambiguous.
- The `ErrorIndication` object is now derived from `Exception` so that it could be raised in exceptions.
- The `errorIndication` values produced by various parts of SNMP engine unified to be `ErrorIndication` instances. This fixes an issue with Twisted.
- Embedded MIB modules rebuilt with the latest pysmi adding previously missing attributes like `status`, `description` etc.
- Fixed potential SNMP engine crash on handling incoming message at unsupported security level
Revision 4.3.5, released 2017-03-24

- The getNext() and getBulk() calls of Twisted interface.
  now support ignoreNonIncreasingOid option.
- TextualConvention is now a new-style class.
- Fix to accidentally reset error-status when building confirmed class
  SNMPv1 PDU.
- Fix to possible infinite recursion in TextualConvention.prettyIn().
- Fixed crash when attempting to report unsupported request/notification
  PDU back to sender.

Revision 4.3.4, released 2017-03-01

- Fix to low-level SNMP API example to accommodate changed pyasn1
  SEQUENCE supporting iterator protocol.
- The pyasn1 version dependency bumped (0.2.3), SEQUENCE/SEQUENCE OF
  API calls adjusted to accommodate changed pyasn1 API (in part
  of .setComponentBy*() kw flags).
- Fixed crash on SNMP engine's invalid message counter increment.

Revision 4.3.3, released 2017-02-04

- Switched from now unmaintained PyCrypto to PyCryptodome.
- Switched to new-style classes.
- NotificationType now allows additional var-binds specified as
  MIB objects. A side effect of this change is that additional
  var-binds can only be added prior to .resolveMibObjects() is
  run.
- Non-standard (but apparently used by many vendors) Reeder AES192/256
  key localization algorithm implemented and set as default for
  usmAesCfb192Protocol and usmAesCfb256Protocol identifiers.
  Original and more standard implementation can still be used
  with the usmAesBlumenthalCfb192Protocol and
  usmAesBlumenthalCfb192Protocol IDs respectively.
- TextualConvention.prettyOut() improved to produce prettier and
  more SMI-compliant output.
- TextualConvention.prettyIn() implemented to handle DISPLAY-HINT
  based value parsing.
- Fix to NotificationType to make additional var-binds overriding
  MIB objects implicitly included through NOTIFICATION-TYPE OBJECTS.
- Fix to SNMP engine boots counter persistence on Python 3.
- Fix to Pythonized MIBs loading when only .pyc files are
  present (e.g. py2exe/cx_freeze environments).
- Fix broken 3DES key localization and encryption procedures.
- Updated IP address for demo.snmplabs.com in examples.
- Missing index added to bundled RFC1213::atEntry MIB table.
- Twisted integration made Python3 compatible.
- Accommodated ASN.1 SEQUENCE iteration rules change in upcoming pyasn1 version.
- Author's email changed, copyright extended to 2017.

Revision 4.3.2, released 2016-02-12
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- Copyright notice added to non-trivial source code files.
- SNMP table row consistency check added. This change may break valid SNMP SET operations on tables if RowStatus column is not passed at the very end of var-binds.
- All SNMP counters now incremented via '+= 1' rather than 'x = x + 1' to simplify their tracking by third-party code.
- Notification originator examples re-pointed to Notification Receiver at demo.snmplabs.com.
- Two more execution observer points added: rfc2576.processIncomingMsg and rfc3414.processIncomingMsg to give an insight on security modules internals.
- TEXTUAL-CONVENTION's DISPLAY-HINT text formatting reworked for better performance and encoding accuracy of 'a' and 't' formats.
- WARNING: security fix to USM - extra user entry clone removed on incoming message processing. It made USM accepting SNMPv3 TRAPs from unknown SNMP engine IDs.
- Fix to snmpInInvalidMsgs and snmpUnknownSecurityModels MIB symbols import at SNMPv3 MP model.
- Fix to NotificationOriginator to cope with unspecified user callable.
- Fix to OctetString.prettyOut() to pretty-print Python 3 bytes without 'b' qualifier.
- Fix to better pysmi import errors handling.
- Fix to missing next() in Python 2.5 at pysnmp.hlapi

Revision 4.3.1, released 2015-11-12
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- Added recursive resolution of ObjectIdentifier values at ObjectType by converting it to ObjectIdentity.
- A bunch of convenience shortcuts to rfc1902.ObjectIdentity added from rfc1902.ObjectType and rfc1902.NotificationType (.addAsn1MibSource(), .addMibSource(), .loadMibs())
- When pretty printing indices at rfc1902.ObjectType, quote only strings.
- SNMP overview and PySNMP hlapi tutorial added to documentation.
- Fix to __doc__ use in setup.py to make -O0 installation mode working.
- Fix to ObjectIdentity->ObjectIdentifier attributes handover
- Fixed crash at oneliner compatibility code on EOM response.
- Fixed crash in hlapi.transport module.
- Fixed OID resolution issues that roots at node 0 and 2.
- Fix to MIB builder to fail gracefully on corrupted MIB package encounter.
- Fix to docs distribution -- now the are Sphinx-buildable out-of-the-box.
- Source code re-linted

Revision 4.3.0, released 2015-09-28

- Critical error fixed in key localization procedure for AES192/AES256/3DES cyphers. Previous versions might never worked properly in this respect.
- Initial PySMI integration. Original ASN.1 MIBs could now be parsed, stored at a local pysnmp MIBs repository and loaded into SNMP Engine. Relevant example scripts added. Obsolete libsmi-based scripts removed.
- Major rewrite of native SNMPv3 CommandGenerator and NotificationOriginator applications towards the following goals:

  * avoid binding to specific SNMP engine instance to promote single SNMP app instance using many SNMP engine instances
  * support two APIs for working with request data: one operates on the whole PDU object while the other on PDU contents
  * keep callback context data in stack rather than in stateful application cache
  * newly introduced sendVarBinds() method offers a more functional and logical signatures.
  * Promote the use of dedicated classes for dealing with OID-value pairs. Instances of those classes resemble OBJECT-IDENTITY, OBJECT-TYPE and NOTIFICATION-TYPE MIB structures.
  * Oneliner API reworked to become more generic: its LCD configuration shortcuts and and var-bindings processing code split off SNMP apps classes to stand-alone objects. The whole API also moved up in package naming hierarchy and becomes 'pysnmp.hlapi.asyncore' (hlapi is apparently an African fish). Old oneliner API remains fully operational at its original location.
  * Synchronous oneliner apps redesigned to offer Python generator-based API along with a more comprehensive set of accepted parameters.
  * Asyncore-based asynchronous apps reworked to become functions.
  * Twisted API moved entirely into high-level domain to be aligned with other high-level APIs. This WILL BREAK backward compatibility for those apps that use Twisted API.
  * Keep backward compatibility for all existing major/documented interfaces

- Sphinx documentation added to source code and example scripts. Library documentation converted from .html into RsT markup.
- Execution Observer facility implemented to give app an inside view of SNMP engine inner workings. This is thought to be a generic framework for viewing (and modifying) various internal states of pysnmp engine. Previously introduced non-standard APIs (like getting peer's transport endpoint which is not suggested in RFCs) will be gradually migrated to this new framework.
- Initial support for the asyncio & Trollius frameworks and
coroutines-based SNMP Applications interfaces added. Both IPv4 and IPv6 datagram transports are currently supported.

- Original asynsock transport and AsyncsockDispatcher renamed into asyncore and AsyncoreDispatcher respectively to provide better hint to fellow devs on the underlying transport being used. Backward compatibility preserved.

- The asyncore-based transport subsystem extended to support POSIX sendmsg()/recvmsg() based socket communication what could be used, among other things, in the context of a transparent SNMP proxy application. Technically, the following features were brought into pysnmp with this update:

* Sending SNMP packets from a non-local IP address
* Receiving IP packets for non-local IP addresses
* Responding to SNMP requests from exactly the same IP address the query was sent to. This proves to be useful when listening on both primary and secondary IP interfaces.

- Internal oneliner apps configuration cache moved from respective apps objects to [a singular] snmpEngine "user context" object. That would allow for better cache reuse and allow for a single app working with many snmpEngine instances.

- Oneliner GETBULK Command Generator now strips possible excessive OIDs off the bottom of returned var-binds table.

- Constraints assignment shortcut added to some base rfc1902 types (Integer, Integer32, OctetString, Bits). That formally constitutes ASN.1 sub-typing.

- Built-in debugging is now based on Python logging module.

- Examples on a single Transport Dispatcher use with multiple SnmpEngine instances added.

- Example script on transport timeout & retries manipulation added.

- Example script explaining incoming message's communityName re-mapping added.

- Broadcast socket option can now be enabled with the .enableBroadcast() call for any datagram-based transport (namely, UDP and UDP6).

- AbstractTransportDispatcher's jobStarted() and jobFinished() methods now accept optional 'count' parameter which is a way for an app to indicate how many responses are expected or have been processed in bulk.

- Example script on SNMP Agents UDP broadcast-based discovery added.

- Oneliner transport object now supports setLocalAddress() method to force socket binding to specified local interface.

- New public DgramSocketTransport.getLocalAddress() returns local endpoint address underlying BSD socket is currently bound to.

- Passing request details to access control callback at CommandResponder reworked towards more robust and simple design with the execution observer facility.

- All MIBs rebuilt with pysmi.

- MIB instrumentation example improved to cover table index building facility.

- Handle the case of null writer at Debug printer.

- Do not cache snmpEngineId & snmpAdminString at CommandGenerator to let it
be reused with many different snmpEngines.
- TRAP PDU agent address evaluation at proto.api made lazy to improve
  startup time.
- Multiple fixes to verify pyasn1 decoder.decode() return to withstand
  broken SNMP messages or its components.
- First attempt made to make some of SNMP Engine settings persistent
  across reboots.
- Make config.delTransport() returning detached transport object. Asyncio
  examples now use this facility to explicitly shutdown transport object.
- Parts of SMIv1 remnant MIBs (RFC1213-MIB, RFC1158-MIB) added to provide
  complete compatibility with SMIv1. Symbols defined in these MIBs only
  present in SMIv1 so they can't be substituted with their SMIv2 analogues.
- MibBuilder.addMibSources() convenience method added.
- The smi.MibBuilder() will now raise more specific exceptions (MibLoadError,
  MibNotFoundError) on MIB loading problems rather than more generic
  SmiError.
- The oneliner's MibVariable MIB lookup subsystem redesigned for more
  generality to mimic OBJECT-TYPE macro capabilities related to SNMP
  PDU handling. The two new classed are ObjectIdentity and ObjectType.
  The ObjectIdentity class additionally supports just a MIB module name
  initializer in which case if resolves into either first or last symbol
  in given MIB. Another option is just a MIB symbol initializer without
  specifying MIB module.
  This new subsystem is moved from the scope of oneliner to more common
  pysnmp.smi.rfc1903 scope to more naturally invoke it from whatever
  part of pysnmp requires MIB services.
- MibBuilder now prepends the contents of environment variables it
  recognizes (PYSNMP_MIB_DIR, PYSNMP_MIB_DIRS, PYSNMP_MIB_PKGS) rather
  than using them instead of its default core MIBs.
- Removed RowStatus default value as it may collide with possible subclass
  constraints.
- A few additional MIB tree management methods added to MibViewController
  to better address ordered nature of MIB tree nodes (namely, getNext*,
  getLast* family of methods).
- Wheel distribution format now supported.
- Fix to authoritative engine side snmpEngineID discovery procedure:
  respond with notInTimeWindows rather than with unsupportedSecurityLevel
  at time synchronization phase.
- Fix to rfc1902.Bits type to make it accepting hex and binary initializers,
  cope with missing bits identifiers at prettyPrint().
- Memory leak fixed in CommandForwarder examples.
- Fix to BULK CommandGenerator to use the same nonRepeaters OIDs across
  multiple GETBULK iterations so returned table for nonRepeaters columns
  would hold the same var-bind.
- Fix to CommandGenerator to make sendRequestHandle persistent across
  multiple iterations of GETNEXT/GETBULK queries.
- Fix to sendNotification() error handling at NotificationOriginator.
- Fix to preserve possible 'fixed length' setting atrfc1902.OctetString
on clone()/ing and subtype()/ing.
- Fix to rfc1902.OctetString & Bits to base them on OctetString class to make the 'fixed length' property working.
- Fix to .clone() method of rfc1902.Bits class to make its signature matching the rest of classes. This may broke code which used to pass namedValue parameter positionally rather than binding it by name.
- Fix to PDU translation service (proto.proxy.rfc2576) to make it initializing errorIndex & errorStatus components of the resulting PDU.
- Fix to MsgAndPduDispatcher.sendPdu() to clean up request queue on pysnmp-level processing failure.
- Fix to SNMPv1/v2c message processing subsystem to make it serving unique PDU request-id's in both outgoing and incoming confirmed and response PDU types. Duplicate request-id's in unrelated PDUs may cause cache errors otherwise.
- Fix to licensing terms of multiple twisted backend modules to make the whole pysnmp package licensed under BSD 2-Clause license. This change has been explicitly permitted by the original modules authors.
- Fix to asyncore-based transport not to use asyncore's cheap inheritance from socket object what caused warnings.
- Fix at NotificationOriginator to make is using MibInstrumentationController when expanding Notification OBJECTS into Managed Objects Instances.
- Missing wrongLength and wrongEncoding SMI errors added.
- Fix to file descriptor leak at MibBuilder.
- Fix to rfc2576.v2ToV1() to ignore impossible errorStatus.
- Fix to rfc2576.v1ToV2() to reset ErrorStatus==noSuchName on proxying.
- Fix to smi.builder to explicitly fail on any MIB file access error (but ENOENT) and raise IOError uniformly on any directory/egg access failure.
- Fix to infinite loop at config.delV3User().

Revision 4.2.5, released 2013-10-02
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- License updated to vanilla BSD 2-Clause to ease package use (http://opensource.org/licenses/BSD-2-Clause).
- A dozen of lightweight Twisted-based example scripts replaced more complex example implementations used previously.
- SNMP Proxy example apps separated into a larger set of more specialized ones.
- Most of Command Generator examples re-pointed to a live SNMP Agent at demo.snmplabs.com to ease experimentation and adoption.
- Multithreaded oneliner CommandGenerator example added.
- Packet-level SNMP API (pysnmp.proto.api) getErrorIndex() method can now be instructed to ignore portentially malformed errorIndex SNMP packet value what sometimes happens with buggy SNMP implementations.
- Standard SNMP Apps and built-in proxy now ignores malformed errorIndex value.
- Built-in logging now includes timestamps.
- Multi-lingual capabilities of all CommandGenerator & NotificationOriginator apps re-worked and improved. For instance it is now it's possible to run getBulk() against a SNMPv1 Agent invoking built-in SNMP Proxy behind the scene.

- The $PYSNMP_MIB_DIR & $PYSNMP_MIB_DIRS & $PYSNMP_MIB_PKGS path separator made platform-specific.

- Change to rfc2576.v1tov2() logic: errorStatus = noSuchName is now translated into rfc1905.noSuchObject exception value for *all* var-bindings at once. Although RFC2576 does not suggest error-status -> v2c exception translation, historically pysnmp used to perform it for a long time so we can't easily stop doing that.

- Exception re-raising improved at MibInstrumController.flipFlopFsm() and asynsock/twisted dispatchers so that original traceback is preserved.

- A single instance of transport dispatcher can now serve multiple receivers (identified by IDs) chosen by a public data routing method.

- SnmpEngine.[un]registerTransportDispatcher() methods now accept optional receiver ID token to be used by transport dispatcher's data router. This allows for multiple SNMP engines registration with a single transport dispatcher.

- Distribute is gone, switched to setuptools completely.

- The snmpCommunityTable row selection improved to follow RFC2576, clause 5.2.1.

- Asyncore-based dispatcher attempts to use poll() whenever available on the platform. It would help handling a really large number (>1024) of file descriptors.

- AsynCommandGenerator.makeReadVarBinds() generalized into a new makeVarBinds() method which replaces somewhat redundant code at setCmd() and AsynNotificationOriginator.sendNotification().

- AsynCommandGenerator.uncfgCmdGen() & AsynNotificationOriginator.uncfgCmdGen() methods now accept optional authData parameter to remove specific entries from LCD. This can be useful for modifying security parameters for specific securityName.

- SNMP credentials management reworked to separate userName from securityName in snmpCommunityEntry and usmUserEntry tables. Changes made to addV1System(), addV3User() functions as well as to their oneliner's wrappers.

- The contextEngineId parameter of config.addV3User() and auth.UsmUserData() renamed into securityEngineId as it's semantically correct

- Oneliner UsmUserData() and CommunityData() classes now support clone()yng to facilitate authentication data management in user applications.

- Oneliner transport target classes now support the getTransportInfo() method that returns network addresses used on protocol level.

- Oneliner CommandGenerator.getNext() & .getBulk() methods now support the maxCalls kwarg to limit the maximum number of iterations to perform.

- The config.addSocketTransport() helper renamed into config.addTransport() and improved by automatically instantiating compatible TransportDispatcher making it dispatcher-agnostic. As an additional bonus, application may not call registerTransportDispatcher() as it would be called by addTransport().

- The SnmpV3MessageProcessingModel.getPeerEngineInfo() method is implemented
to communicate discovered peer SNMP engine information to SNMP apps what can be used for fine usmUserTable configuration.
- AsynNotificationOriginator.cfgCmdGen() does not take into account securityModel & securityLevel when reducing LCD access via addTrapUser(). This improves LCD consistency on sparse add/del operatons but also does not let you to configure different securityModels per securitiname at VACM though the cfgCmdGen() wrapper.
- MIB builder traceback formatting and reporting improved.
- SNMP Engine object now has a snmpEngineID attribute exposed.
- Fix to inet_ntop()/inet_pton() support on Windows at TRANSPORT-ADDRESS-MIB.
- Fix to usmUserSecurityName table column implementation -- automatic value generation from index value removed.
- Fix and significant logic rework of snmpCommunityTable to make it working in both Generator and Responder modes and better follow RFC2576 requirements on sequential entries lookup and selection. As a side effect, untagged snmpCommunityTable entries will *not* match tagged snmpTargetAddrTable entries and vice versa.
- Fix to Twisted-based NotificationOriginator to make it serving INFORMs again.
- Fix to rfc2576.v1tov2() logic: errorStatus = noSuchName is now translated into rfc1905.noSuchObject exception value for *all* var-bindings. Although this is not mentioned in RFC, it looks as a more consistent approach.
- Fix of rounding error to base I/O dispatcher's next timer call calculation.
- Explicit twisted dispatcher's timer resolution (of 1 sec) removed to make use of global default of 0.5 sec.
- Fix to twisted/udp non-default local endpoint binding features. Common socket ('host', port) notation is now supported.
- Fix to Twisted-based transport to make it closing UDP port / UNIX pipe on shutdown.
- Fix to Twisted-based dispatcher not to close transport on unregistration at dispatcher as transports can potentially be reused elsewhere.
- Fix to asyncore-based transport to work only with AsynsockDispatcher's socket map and not to touch default asyncore's one. The latter have caused dispatcher/transport restarting issues.
- The delV3User() function improved to drop all rows from USM table that were cloned from the target one.
- Fix to exceptions handling at MsgAndPduDispatcher.sendPdu() to avoid sendPduHandle miss (followed by system crash) on cache expiration run.
- Break cyclic references at CommandResponder and NotificationReceiver apps through close() method.
- Fix to octet string typing at 3DES codec (used to throw an exception).
- Fix to SnmpAdminString, SnmpTagList, SnmpTagValue types to make them supporting UTF-8 initializers.
- Fix to v1/v2c message processing module which used to refer to a bogus stateReference in some cases what causes SNMP engine crashes.
- Fix to IPv6 transport to zero ZoneID, FlowID and ScopeID components sometimes coming along with incoming packet.
- Fix to SNMPv1 MP module to pass stateReference to registered app on unconfirmed notifications reception (to let NotificationReceiver
Apps browsing request details).
(transport information at the moment) at SNMP engine.
- Asyncsock sockets now configured with SO_REUSEADDR option to fix possible
  Windows error 10048.
- Gracefully handle malformed SnmpEngineID at USM coming from SNMPv3 header.
- Typos fixed in error-status constants at CommandResponder
- Missing import added to oneliner auth module.
- Cosmetic changes to v3arch example scripts.

Revision 4.2.4, released 2013-01-30

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- SNMPv3 high-level and native API examples reworked and extended to cover
  many use cases.
- The missing functionality of NOTIFICATION-TYPE objects being looked up
  at local Management Instrumentation and attached to TRAP/INFORM message
  by Notification Originator is now fully implemented.
- The missing functionality of passing Response PDU contents of INFORM
  request is now implemented at Notification Originator app. The return
  value of NotificationOriginator.sendNotification is now a composite object
  that includes errorStatus, errorIndex and varBinds.
- The missing functionality of passing lookupNames & lookupValues params
  to Notification Originator is now implemented. It may make sense for
  INFORMs.
- The missing functionality of passing contextName to oneliner
  version of NotificationOriginator.sendNotification is now implemented.
- One liner example apps now include cases where non-default SNMP
  ContextEngineId/ContextName/SecurityEngineId is used.
- The contextName parameter of SnmpContext.getMibInstrum made optional.
- AbstractMibInstrumController class added as a base class for all possible
  kinds of Management Instrumentation controllers.
- Report package version on debugging code initialization.
- MibInstrumController.getMibBuilder() added.
- I/O sockets buffer sizes made configurable, minimum default is now
  forced to be no less than 2**17 (to fit two huge datagrams).
- Catch possible exceptions on pyasn1 encoder invocation.
- VACM modules converted from a function into an object to let it keep
  state (caches) in the future.
- Unnecessary MibSource explicit initialization calls removed at MibBuilder.
- Example configuration for Net-SNMP's snmptrapd added.
- Cast additionalVarBinds into ObjectIdentifier type at
  NotificationOriginator.sendNotification()
- Standard SNMPv3 Apps hardened to catch protocol-related exceptions and
  report them as errorIndication's.
- Catch and mute possible failure of getsockname(), that seems to happen
  on Windows only so far.
- Memory leak fixed at oneliner cache of already configured targets.
- Fixes to at AsynNotificationOriginator.sendNotification() to make
a) the notificationType param mandatory b) the varBinds param really optional

- Fixes to ContextEngineId/ContextName support at the oneliner API: now both items should be passed to request PDU through Cmd() request initiation method, the items of authData object should be used only for LCD configuration.
- Fix to MibVariable handling of the MIB, <empty-symbol> initializers.
- Fix to outgoing queue processing order at socket transport. Now it's a FIFO discipline rather than LIFO.
- Fix to NotificationOriginator's additionalVarBinds parameter - it is not mandatory anymore with the oneliner API. Also additionalVarBinds defaulted value changed from None to () meaning no var-binds.
- Attempt to convert Windows style EOL into UNIX ones in MIB source modules appeared to be unnecessary and even destructive to modules data in some cases. So the conversion code removed altogether.
- Fix to isAccessAllowed() error handling at NotificationOriginator. System used to crash on access denied condition.
- Fix to NotificationOriginator to make it use system uptime and trap OID values from SNMP engine's instrumentation rather then from SNMP context.
- Fix a couple of bugs at MibTable* logic involved for table instances creation.
- Fix to Management Instrumentation code to handle cases of non-initialized or not-compliant-to-constraints Managed Objects Instances.
- Fix to Management Instrumentation code to make table row removal through SNMP working again. Wrong method (instumClone) was probed at terminal MIB nodes values instead of the right one (setValue).

Revision 4.2.3, released 2012-09-06

- SECURITY FIX: USM subsystem did not verify securityLevel of a request to an authoritative SNMP engine against auth/priv protocols configured for the user in question. That allowed unauthenticated/unciphered access to pysnmp-based Agent even if USM user is configured to provide one.
- Oneliner [Asyn]CommandGenerator now supports optional keyword args lookupNames, lookupValues that enable response OID / value looked up at MIB and reported as a MibVariable container object carrying relevant MIB info.
- Oneliner [Asyn]CommandGenerator now supports symbolic MIB object names to be passed within a MibVariable container object which would do a deferred MIB lookup for name resolution. This is a new and preferred API which obsoletes the tuple-based one (it is still supported though).
- Oneliner CommandGenerator's class attributes lexicographicMode, maxRows and ignoreNonIncreasingOid moved to optional keyword args of nextGen() and bulkGen() methods.
- IPv6/UDP and Local Domain Socket transport interfaces added to the oneliner API.
- Mib Instrumentation subsystem re-worked to replace excessive
MibNode's smiCreate()/smiWrite()/smiDestroy() methods with MibScalarInstance's getValue()/setValue()

- MibTree.readTest[Get]Next() reworked to be called uniformly so user could tap on these methods at any level of the MIB tree.
- MibTableColumn getNextNodeWithValue() unpublished API method obsoleted and removed for clarity.
- Hex dumps of binary parts of the protocol added to ease system operations analysis.
- SnmpEngineId autogeneration does not call DNS resolver but uses local hostname not to depend upon local IP availability and performance.
- Example apps reworked, additional SNMPv3 auth/priv protocols and transports added.
- Package version is now available as __init__.__version__ and it is in-sync with distutils.
- Package meta-information updated.
- The __init__.py's made non-empty (rumors are that they may be optimized out by package managers).
- Multiple fixes to UNIX domain socket transport to make it fully operational again.
- Use sysUpTime value whenever it is included in Notification PDU, otherwise resort to SNMP engine uptime reading.
- SNMPv2c Message is now defined in rfc1901.py what matches standard definition.
- Types defined within SNMPv1/v2c data structures (rfc1157.py/rfc1905.py) moved to module scope to become accessible by wrapper routines (v1.py/v2c.py). This is used for setting strictly typed default values to corresponding SNMP data structures.
- The obsolete and unpublished MibInstrumController.readVarsFast() method removed for API clarity.
- MibBuilder now distinguishes case of MIB modules filenames even if underlying OS does not.
- LCD configuration caching is implemented at pysnmp.entity.rfc3413.config that improves performance of repetitive calls by 10% and might hugely improve NotificationOriginator's performance when working on a large number of targets.
- A caching maps implemented at rfc2576 subsystem to speed-up communityName to/from securityName resolution. The also makes transport tags processing better compliant to the standard.
- Community and Transport tags processing changed at the oneliner interface to make the whole mechanism more compliant with the standard. Most importantly, it is now possible to tag authentication and transport information separately.
- The NoSuchInstanceError exception class is no more inherits from NoSuchObjectError to make class hierarchy closer to SNMP specification which states that these errors are separate and independent.
- The Next & BulkCommandGenerator's split onto single-run and iterative implementations. The former just process a single interaction and complete while the latter run as many interactions as user callback function
indicates to.
- The pysnmp.entity.rfc3413.mibvar module is now obsolete by
  pysnmp.entity.rfc3413.oneliner.mibvar featuring basically the same
  features but within a stateful, dedicated object.
- Auth & target configuration container classes moved to their separate
  modules at oneliner API.
- The notificationType parameter of AsynNotificationOriginator.sendNotification
  made default to reflect its optional nature.
- One liner UsmUserData, UdpTransportTarget, Udp6TransportTarget instances
  are not hashable anymore as they are intended to act more like a data
  structure than object.
- Built-in debugger now supports negating debugging categories.
- An asyncio/getgen.py example script added.
- Fix to MIB data reading routine to make it working with possible
  Windows end-of-line's.
- Fix to CommandGenerator's SNMPv3 engine autodiscovery algorithm
  when retryCount is administratively set to 0.
- Fix to Notification Originator to make it communicating a single
  sendPduHandle to an application even when multiple INFORMs are triggered
  and processed by a single call by way of transport tagging feature.
- Fix to rfc2576:processIncomingMessage() to take SecurityModel into account
  when lookup up SecurityName by CommunityName. This allows mixed SNMPv1/v2c
  communication with the same target.
- Fix to internal MessageProcessing and SecurityModel timers so they become
  dependant on system timer resolution.
- Fix to v1.PDUAPI.setDefaults() method that used to set wrongly typed
  time-stamp component.
- Fix to IPv6 address handling to prevent system from crashing whilst
  running Python3.
- Fix to SNMPv2 exception objects translation into SNMPv1 PDU and NEXT
  OIDs calculation.
- Fix to MibTree class to properly report noSuchObject & noSuchInstance
  SNMP special values.
- Fix to libsmi2pysnmp tool to make it working again in Python < 2.7
- Fix to exception handling at decodeMessageVersion() caller to prevent
  ASN.1 parsing errors crashing the whole app.
- Fix to GenericTrap type processing at rfc2576:v1Tov2c() which used to
  crash the whole SNMP engine.
- Fix to [possibly uninitalize]d pyasn1 objects printouts at
  MibInstrumController.__indexMib()
- Fix to maxSizeResponseScopedPDU calculation at rfc3414/service.py.
- Dedicated `withmib` example set is obsolete and removed.
- Another SNMP proxy example app added (1to3.py).
- Fix to MIB modules loading code to make it using __import__() properly.
  This also makes pysnmp working again with Python 3.3rc0.
- Typo fix to snmpInASNParseErrs MIB instance object.
- Typo fix to errind.EngineIdMismatch class and its instance.
- Oneliner CommandGenerator can now limit the number of SNMP table rows returned by nextCmd()/bulkCmd() methods.
- Oneliner CommunityData configuration object can now be initialized with community name only, security name will be chosen automatically.
- Oneliner LCD configuration routines reworked towards clarity. The side-effect of this change is that repetitive oneliner call with the same securityName and different configuration options will only honor the first settings. Previous implementation would override older settings.
- Transport dispatcher now provides its own time expressed in fractions of second. SNMP engine uses this notion of time for handling requests timeout to make packet flow time bound to async I/O core operations rather than to real time.
- The libsmi2pysnmp tool improved to handle incomplete SMI v1->v2 conversion performed by smidump. The remaining core SMIV1 modules excluded from the core MIB set.
- The pyasn1 constraint and enumeration objects put into ASN1-* MIB modules what appears to be more in-line with SMI. Existing MIB modules as well as libsmi2pysnmp tool corrected accordingly.
- SMIV1 MIB modules (including RFC1155 and RFC1213) were moved to pysnmp-mibs as pysnmp is SMIV2-based.
- The MibBuilder.importSymbols() now takes optional kwargs and push them into MIB modules globals(). This is to facilitate passing user information, such as DB connection handler, to MIB module namespace so it could be used by ManagedObjects implementations.
- When running on Python3, SMI will re-raise exceptions with the original traceback for easier diagnostics.
- Out of PYTHONPATH MIB paths now supported.
- Added pyasn1 decoder failures diagnostics in debug mode.
- Fix to non-MT-safe class attributes at SNMPv3 MP & SEC modules.
- Fix to ContextName handling in bytes form whilst running Python3. Data mismatch error would return otherwise.
- Fix to SNMPv3 MP peer engine ID discovery not to learn and use user-specified ContextEngineId.
- Fix to socket.error processing at Py3 on Windows.
- Fix to oneliner GETNEXT/GETBULK implementation to properly support ignoreNonIncreasingOIDs option.
- Fix to setEndOfMibError()/setNoSuchInstanceError() at v1 PDU not to lose errorIndex.
- Fix to api.v2c.getVarBindTable() to ignore possible non-rectangular GETBULK response tables.
- Fix to oneliner getnext/getbulk response table rectangulation procedure to gracefully handle an empty column condition.
- Fix to legacy MibBuilder.getMibPath() to prevent it from missing .egg-based components in path.
- Fix to oneliner configuration routine that used to implicitly
tag SNMPv1/v2c auth and transport LCD rows what resulted in
huge delays when processing incoming messages with large number
of peers configured.
- Fix to UDP6 transport handling at rfc2576 security module.
- Fix to SnpEngineID value autogeneration (used to fail on Mac).
- SNMPv2-SMI.ObjectType.__repr__() fixed to do a repr() on its components.
- All SNMPv2-SMI.MibNode-based objects, once exported to a mibBuilder, will
carry an embedded label symbol.
- Explicit repr() calls replaced with ‘%r’
- Fix to to error processing at GETNEXT & GETBULK apps response handlers.
- Fix to libsmi2pysnmp to make it supporting long (256+) list of function
params.
- Fix to libsmi2pysnmp to support inheritance of MIB types.

Revision 4.2.1, released 2011-11-07
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- Support string OIDs at one-liner API.
- Code quality of libsmi2pysnmp tool improved, MIBs re-built.
- SNMP-PROXY-MIB & SNMP-USER-BASED-SM-3DES-MIB added
- v1arch bulkgen.py example added
- Major overhaul for Python 2.4 -- 3.2 compatibility:
  + get rid of old-style types
  + drop string module usage
  + switch to rich comparation
  + drop explicit long integer type use
  + map()/filter() replaced with list comprehension
  + apply() replaced with var-args
  + dictionary operations made 2K/3K compatible
  + division operator made 2K/3K compatible
  + sorting function now operates on key
  + iterators returned by some funcs in py3k converted to lists
  + exception syntax made 2K/3K compatible
  + tuple function arguments resolved to scalars to become py3k compatible
  + BER octetstream is now of type bytes (Py3k) or still string (Py2k)

Revision 4.2.1, released 2011-11-07
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- Fix to SNMPv1 Trap PDU agentAddress setter shortcut method.

Revision 4.1.16c, released 2011-08-14
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- Missing module import fixed in privacy subsystem

Revision 4.1.16b, released 2011-08-13
- Oneliner CommandGenerator can now optionally ignore non-increasing OIDs.
- Default CommandResponder now skips non-compliant (Counter64) values when responding to a v1 Manager.
- Fix to state information handling at CommandResponder app.
- Fix to Twisted reactor shutdown condition.
- Fix to distutils dependencies syntax.

Revision 4.1.16a, released 2011-03-17

- Extended Security Options (3DES, AES192, AES256) privacy protocols implemented.
- The error-indication codes moved from literals to objects for reliability and clarity
- Fix to v1.TrapPDUAPI.getVarBinds() to address PDU component at the right position.
- Fix to rfc1902.Bits initialization from named bits sequence.
- Fix to MIB builder by-extension module filtering code to cope with .pyw files.
- Internal caches structure improved.
- Sync versions of oneliner apps split off async implementation for clarity.
- Randomize initial in various numeric sequences.
- MsgAndPduDsp expectResponse parameters passing reworked.
- GetNext/GetBulk response processing logic moved to getNextVarBinds()
- Changes towards performance improvement:
  + all dict.has_key() & dict.get() invocations replaced with modern syntax (this breaks compatibility with Python 2.1 and older).
  + introduce the MibInsturmtController.readVarsFast() method (which skips the “testing” phase of MIB value readin) for dealing with internal configuration (LCD).
  + default debug.logger is now just a zero value instead of an object what saves big on frequent calls
  + SNMPv2-SMI columnar indices <-> index values conversion code optimized.
  + pre-compute and re-use some of ASN.1 structures.
  + avoid setting PDU defaults to save on unnecessary initialization.
  + skip ASN.1 types verification where possible.
  + at oneliner Command Generator, avoid looking up pure OID arguments at MIB as it's pointless but takes time.
  + cache MIB columnar objects instance ID <-> symbolic index representation mapping

Revision 4.1.15a, released 2010-12-13

- SNMP Proxy example added.
- End-of-MIB condition detection reworked what caused backward incompatibility at v1arch GETNEXT API. Previous pysnmp versions used value = None in var-binds as returned by getVarBindTable() API method. This version uses rfc1905 exception values (v2c/v3) or pyasn1 Null (v1).

  Built-in GETNEXT/GETBULK apps now do not require user to track end-of-mib conditions anymore -- this is now done automatically.

- CommandResponder API now supports async mode of operation.

- SNMP exception values now exported from rfc1905 module, and made pretty printable.

- Lexicographic walking mode is now supported at oneliner CommandGenerator.

- ContextEngineId&ContextName parameters passing implemented at v3arch oneliner API.

- Multiple instances of the same transport domain now supported.

- Initial snmpEngineId value generation improved not to accidentally collide within an administrative domain.

- MibTableColumn instances now build value-to-column-instance map to speedup by-value search.

- SNMPv2-CONF::AgentCapabilities macro implemented.

- The libsmi2pysnmp tool handles some more MACROs.

- Void access control module implemented to let apps disabling [default] VACM.

- Allow standard SNMP apps to choose access control method to use.

- Twisted-based CommandResponder example added.

- Fix/rework of Twisted GETNEXT/BULK CommandGenerator callback API to make it simpler and uniform with other CommandGenerators

- Fix to SNMPv3 security module to store peer SNMP engine timeline only if taken from an authenticated message. Prior to this fix SNMP engine was not been protected from spoofing.

- Fix to $SMIPATH initialization at build-pysnmp-mib.

- Fix to maxSizeResponseScopedPDU calculation.

- Fix to Next/Bulk CommandGenerators to catch a non-increasing OID error condition (what prevents looping).

- Fix to Opaque value tagging at rfc1155.Opaque type.

- Fix to handle (fail gracefully) zero-length user password.

- Fix to SNMP error propagation at Twisted driver (SF tracker ID #3054505).

- Fix to Agent-role snmpEngineId discovery procedure that allows authenticated ReportPDU generation.

- Fix to SNMPv1 PDU handling at CommandResponder & NotificationReceiver apps.

- Fix to CommandResponder app to skip Counter64 SMI values when responding to SNMPv1 Manager.

- Fix to protocol translator code (rfc2576) to handle Counter64 type in v2c-to-v1 PDU translation.

- Fix to non-response var-binds translation in rfc2576.v2ToV1().

- Fix to wrong exceptions used in pysnmp/entity modules.

- Fix to noauth/nopriv security module so that it would not crash SNMP engine if called accidentally.

- Fix to CommandResponder not to return out-of-range errorIndex along
with genErr
- Fix to GETBULK CommandResponder to do a by-column MIB walk, not by-raw.
- Fix to getVarBindTable() API function logic.
- Fix to example Manager scripts to use errorIndex when available.
- Fix to dummy encryptData()/decryptData() API
- Fix to oneliner GETBULK table collection code to make it stripping uneven rows off table tail.

Revision 4.1.14a, released 2010-07-15
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- Fix to maxSizeResponseScopedPDU calculation at USM security module: now more precise and robust against screwed values on input.
- Fix to MIB loading logic that used to load same-name modules at distincts search paths on each loadModules() call.
- Fix to AsynsockDispatcher.runDispatcher() to make use of optional non-default select() timeout value.
- AbstractTransportDispatcher now allows user application registering multiple timer callbacks each with dedicated call period.
- Asynsock mainloop default idle period reduced to 0.5 sec for better timer resolution.
- Fix to SNMPv1->SNMPv2c error status handling at proxy module. This defect may have caused an infinite loop on a multiple var-bind SNMPv1 GetNext operation.
- Fix to contextName processing at config.addV1System -- typo rendered passed contextName not committed into LCD.
- Fix to unknown ContextName exception handling at CommandResponder App.
- config.addVacmUser() now accepts an optional contextName what makes it usable for configuring multiple contextName-bound bases of Managed Objects to SnmpEngine.
- MP pending states cache management re-worked so that SNMP engine will now handle an unlimited number of pending request/responses.
- Fix to SNMP discovery procedure: include ContentName in SNMP discovery messaging.
- Many fixes to AES crypto code that makes it actually working.
- Fix to SNMPv2-SMI createUndo operations.
- Fix to INFORM sending error handling at oneliner.
- Fix to mismatched response PDU handling at CommandGenerator application.
- Debug category 'app' (for Application) added to facilitate Standard SNMP Applications debugging.
- The retryCount semantic of CommandGenerator application changed to include sole retries and do not include initial request. Thus, retryCount=1 will now send up to two packets, not just one as it used to be.
- Debugging printout now escapes non-printable characters.

Revision 4.1.13a, released 2010-02-09
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- UDP over IPv6 transport implemented.
- Fix to MIB tree walking code that used to fail on table columns where indices have identical leading parts.
- SNMPv1/v2c snmpCommunityTransportTag-based incoming message filtering implemented (rfc2576).

Revision 4.1.12a, released 2009-12-03
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- API versioning retired (pysnmp.v4 -> pysnmp).
- MIB loading mechanics re-designed to allow ZIP import.
- MIB loader supports code objects (py[co])
- Installer now uses setuptools for package management whenever available.
- The libsmi2pysnmp tool improved to build constraints of more than 256 items (Python has a limit on the number of function params).
- Missing SNMPTrap PDU API implemented at proto.api.v2c, RFC2576 proxy code reworked.
- Fix to sysUpTime OID at SNMPv2 TRAP PDU.

Revision 4.1.11a, released 2009-08-21
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- Twisted integration implemented.
- Attempt to use hashlib whenever available.
- Fix to oneliner Manager code on < Python 2.4.
- Let NotificationReceiver and CommandResponder Apps browsing request details (transport information at the moment) at SNMP engine.
- Fix to config.addV1System() to allow multiple systems to co-exist in LCD.
- Fix to wrongly succeeding user-parameters-by-community-name searching code in rfc2576 processIncomingMsg() method.
- Do sanity checking on PYSNMP_MODULE_ID, Groups and Notifications in libsmi2pysnmp (SF bug #2122489).
- Fix to oneliner Notification Originator that sometimes used to send multiple requests at once.
- Oneliners LCD names generation code reworked to avoid accidental clashes.
- Fix and re-work of sysUpTime value management in LCD.
- Fix to pending inform request data caching in mpmod/rfc2576.py -- previous code led to cache data corruption on multiple outstanding requests.
- In SMI configuration wrapper functions, catch access to non-configured entries and raise an exception.
- Allow multiple callback timer functions in all transport dispatchers.
- Fix to libsmi2pysnmp code to preserve more underscored object names and to guess the right type between indistinguishable ObjectGroup & NotificationGroup
- Fix to MibScalarInstance value setting logic - previous code failed when modifying the same OID multiple times within a single SET operation.
- Minor usability improvements to tools/build-pysnmp-mib.
- Made MIB objects unexport feature operational.
Revision 4.1.10a, released 2008-05-25
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- Internal MIB indexing method __indexMib() unmangled to facilitate setting up mutex there for sharing MIB stuff between threads.
- Fixed broken IpAddress value handling in SET operation.
- Broken MibBuilder.unloadModules() method now works.
- Use getLabel() SMI object method when building MIB tree (in builder.py) in addition to direct attribute access for clearer object protocol.
- The MIB building tools updated to match significantly improved smidump tool (libsmi version > 0.4.5).
- Made libsmi2pysnmp tool optionally building MIB text fields into pysnmp MIB code (enabled by default) and MibBuilder conditionally loading them up (disabled by default).
- SnmpEngine and MsgAndPduDispatcher constructors now optionally take msgAndPduDspr and mibInstrumController class instances respectively to facilitate these objects sharing within a process.
- Unique integers, for various parts of the system, are now generated by a nextid.py module. This fixes possible issues with duplicate request IDs and handlers.
- Built-in MIBs re-generated to include text fields.

Revision 4.1.9a, released 2007-11-28
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- UNSTABLE ALPHA RELEASE.
- At onliner CommandGenerator, close transport on destruction to prevent socket leak. Implicit async transports registration at default asyncore's socket map has been disabled to avoid side effects.
- Fix to rfc2576.v1ToV2c() PDU converter to perform noSuchName error code translation.
- Fixes to Notification PDU conversion code at rfc2576 in part of snmpTrapOID handling.
- Fix to nonRepeaters object use as sequence slicer (must be int) at cmdrsp.CommandResponderApplication
- Make AsynsockDispatcher using its own socket map by default for threading safety. This will break asyncore apps that rely on pysnmp sharing the same socket map with them. A solution would be to either set asyncore map to pysnmp (AsynsockDispatcher.setSocketMap()) or pass pysnmp map (AsynsockDispatcher.getSocketMap()) to asyncore.
- Fix to response timeout roundup bug at CommandGenerator and NotificationOriginator code.
- Oneline configuration classes made hashable to prevent memory leaks when committing them into CommandGenerator/NotificationOriginator internal repository.
- Security information is now released properly in all MP modules.
This might fix a significant memory leak.
- Typo fix to rfc3411 confirmed class PDU members.

Revision 4.1.8a, released 2007-08-14

- UNSTABLE ALPHA RELEASE.
- SMI/dispatcher timeout conversion multiplier is actually 100 (1/100 sec) rather than 1/1000. This fix affects timeouts specified through SMI.
- __repr__() implemented for UdpTransportTarget, CommunityData, UsmUserData in oneliner module.
- Automatically initialize table index values on table management operations (SF bug ID #1671989).
- Fix to carrier code: ignore BADFD socket error as it may happen upon FD closure on n-1 select() event.
- Fix to MibBuilder.setMibPath() to preserve previously loaded modules intact. Otherwise loadModules() called after setMibPath() might fail with 'MIB file not found in search path' exception.
- Fix to oneliner classes that now invoke unconfiguration methods on destruction. This might have caused memory leaks.
- Automatically initialize SNMP-USER-BASED-SM-MIB::UsmUserSecurityName columnar object instance on creation, as stated in DESCRIPTION (SF tracker ID #1620392).
- Fix to USM timeframe arithmetics (SF bug #1649032).
- VACM shortcuts merged into universal add/delVacmUser() to let notifications and requests to co-exist for the same user.
- At oneliners, build LCD tables keys from a hashed mix of input parameters to make sure these automatic entries won't interfere or exceed constraints on keys values.
- Made use of notificationType parameter of the sendNotification method in NotificationOriginator applications. This parameter used to be ignored in the past. Note, that previously used (and ignored) syntax has been changed in an incompatible way.
- Allow plain Python values in setCmd() and sendNotification() methods in CommandGenerator and NotificationOriginator applications respectively.
- Multi-target oneliner API-based example script added.
- Ignore more socket errors in datagram-type async socket code.
- AES cipher now supported (rfc3826).
- Fix to messed up tagIDs of noSuchInstance and noSuchObject types.
- SET Command Responder fixed to obscure access to non-existing variables by returning notWritable error (SF bug #1764839).
- AsynsockDispatcher.setSocketMap() method added to facilitate pysnmp transport integration into third-party asyncore-based applications.
- Fix to errorIndex generation at CommandResponder application, the value should be a one-based.

Revision 4.1.7a, released 2007-02-19
- UNSTABLE ALPHA RELEASE.
- Low-level debugging facility implemented.
- Support UdpTransportTarget timeout and retries parameters in oneliner API.
- Fix to snmpTrapOID construction at ...proxy.rfc2576.v1ToV2() function.
- Fix to MibViewController.getNodeName() to take MIB module name into account (SF bug #1505847).
- Do explicit check for Counter32,Unsigned32,TimeTicks,Counter64 value types in MibTableRow index conversion and in TextualConvention.prettyPrint() methods (SF bug #1506341). Handle Bits in indices as RFC2578 suggests.
- Apply read-create column status to libsmi2pysnmp-generated code whenever MIB text specifies that (SF bug #1508955).
- Honor and apply DISPLAY-HINT specification when building TextualConvention class at libsmi2pysnmp.
- Managed Objects Instances files (smi/mibs/instances/) are now double-underscore prefixed to make them imported explicitly by these prefixed names. They used to be imported as a side-effect of Managed Objects files import what is way too hackerish.
- The libsmi2pysnmp now supports future libsmi bugfix that would generate "ranges" subtree along with the legacy and ambiguous "range" one.
- SMI support for fixed-length string indices implemented (SF bug #1584799, #1653908).
- Managed Object Instances may now have smiRead, smiWrite, smiCreate methods to support specific value mangling. These methods, if present, would be invoked from SNMP [Agent] core instead of conventional clone() method. The reason is to separate trivial value duplication from specific Instance value mangling that may have Agent-specific side effects (such as RowStatus).
- MIB table row destruction now works (SF bug #1555010).
- LCD unconfiguration functions for oneliners implemented (SF bug #1635270).
- unloadModules() and unexportSymbols() implemented at MibBuilder
- Notification type PDU proxy code fixed to produce symmetrical conversion.
- Various SNMP engine-internal caches expiration implemented.
- SMI-level access control now takes effect only if AC object is passed to MIB instrumentation API.
- LCD management code now uses generic MIB instrumentation features.
- Fix to oneliner manager code to have individual UdpSocketTransport instance per each SnmpEngine. Multithreaded apps might fail otherwise. (SF bug ID #1586420).
- Exclude the PYSNMP_MODULE_ID symbol from MIB view index, as it may get resolved into OID label instead of actual MIB object name.
- Memory leak fixed in indices.OidOrderedDict implementation.
- Fix to VACM shortcuts to let notifications and requests to co-exist for the same user otherwise.
- Fix to ...oneliner.cmdgen.UsmUserData to support non-default ciphers.
- USM now uses local notion of snmpEngineBoots/Time when authoritative and cached estimate otherwise. Also, a security fix applied to USM time-window verification (SF bug #1649032).
- Fix to notification objects resolution code at NotificationOriginator.sendNotification()
- Do not raise securityLevel for USM error reports that lacks user information, as these reports could never be ciphered (SF bug #1624720).
- Non-default BULK PDU params now actually applied.
- SnmpEngineID default value generation algorithmic function changed to allow multiple SNMP engines running on the same host.
- Documentation updated.
- A handful of minor fixes applied (SourceForge tracker IDs #1537592, #1537600, #1537659, #1548208, #1560939, #1563715, #1575697, #1599220, #1615077, #1615365, #1616579).

Revision 4.1.6a, released 2006-05-25
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- UNSTABLE ALPHA RELEASE.
- pysnmpUsmSecretAuthKey and pysnmpUsmSecretPrivKey length increased up to 256 octets. There seems no limit on this in RFC, though.
- A workaround for probably broken Agents: SNMPv3 Manager code defaults ContextEngineId to SecurityEngineId whenever ContextEngineId is not reported by authoritative SNMP engine on discovery.
- Use empty PDU in engine-discovery report at mpmod/rfc3412.py.
- MibBuilder.loadModules() now fails on missing MIB files.
- MibBuilder.exportSymbols() now accepts unnamed objects (likely Managed Objects Instances)
- SNMPv2-SMI.MibScalarInstance objects now support create*/destroy* Management Instrumentation methods to pass Columnar Object creation and removal events. MibTableColumn class invoke these methods accordingly.
- Fix to AsynNotificationOriginator.asyncSendNotification() callback formal parameters
- Initial VACM configuration implemented according to rfc3415 Appendix 1
- tools/buildmibs.sh split-up and re-implemented as tools/build-pysnmp-mib and pysnmp-mibs/tools/rebuild-pysnmp-mibs for better usability. These and libsmi2pysnmp scripts made installable.
- Types/Notifications/Groups exportSymbols() call chunking implemented in tools/libsmi2pysnmp
- Initial values specified to pyasn1 types to comply with latest pyasn1 API.
- Documentation improved
- Minor fixes towards Python 1.5 compatibility

Revision 4.1.5a, released 2005-11-04
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- UNSTABLE ALPHA RELEASE.
- Multi-lingual SNMP Trap/Inform Applications completed; examples added
- SMI model re-designed to make a clear separation between Managed Objects and their specification (AKA Agent and Manager side)
- SNMP SET Application support completed
- Minor, though backward incompatible, changes to one-liner API
- Many bugfixes

Revision 4.1.4a, released 2005-08-16
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- UNSTABLE ALPHA RELEASE.
- SHA-based authentication fixed and privacy implemented
- ...oneliner.cmdgen.UsmUserData constructor now takes authProtocol and privProtocol parameters in a backward incompatible manner.

Revision 4.1.3a, released 2005-07-28
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- UNSTABLE ALPHA RELEASE.
- rfc3413 applications API changes (related to callback function behaviour).
- TransportDispatcher now provides "jobs" interface to clients for better control of dispatcher's execution.
- Many minor fixes.

Revision 4.1.2a, released 2005-07-12
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- UNSTABLE ALPHA RELEASE.
- Top-level application classes renamed into longer, self describing names for clarity.
- CommandResponder & NotificationOriginator applications now uses stand-alone SnmpContext for application registration.
- Many minor fixes (inspired by testing on WinXP)

Revision 4.1.1a, released 2005-06-29
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- UNSTABLE ALPHA RELEASE.
- SNMPv3 code first published
- SNMP engine and applications implemented on library level
- Major re-design towards SNMPv3-style API.

Revision 4.0.2a, released 2005-03-01
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- Adopted to slightly changed asyncore API (as shipped with python 2.4)
Revision 4.0.1a, released 2004-11-18
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- Minor bug/typo fixes, mostly in example/ scripts.

Revision 4.0.0a, released 2004-11-15
------------------------------------
- UNSTABLE EARLY ALPHA RELEASE.
- Major re-design and re-implementation.
- Rudimental API versioning implemented to let incompatible package branches to co-exist within the same Python installation.
- SMI framework designed and implemented. This framework provides 1) various access to MIB data 2) a way to implement custom MIB instrumentation objects. There's also a tool for building SMI classes from libsmi(3) output (smidump -f python).
- ASN.1 subtyping machinery implemented. Now dynamic ASN.1 instances subtyping and querying becomes available. Previously, this has been done through Python classes inheritance what proved to be a wrong concept.
- ASN.1 codecs framework re-designed and re-implemented aimed at a more consistent design and better performance. Highlights include abstract codec interface and serialized data caching (at encoder).
- Asn1Item constraints machinery re-implemented based on Mike C. Fletcher's design and code. Now various constrains are implemented as stand-alone objects serving interested Asn1Object derivatives through some abstract protocol (that's probably the Decorator design pattern).
- ASN.1 tagging facility re-implemented along the client-server design pattern. Besides this seems to be a more appropriate design, it allows an easier way for dynamic subtyping.

Found in path(s):
* /opt/cola/permits/1162148473_1620796836.88/0/pysnmp-4.4.8-2.el8ost.src.rpm-cosi-expand-archive-0xkvP2LH/pysnmp-4.4.8.tar.gz-cosi-expand-archive-HKWmGBxE/pysnmp-4.4.8/CHANGES.txt

1.162 cffi 1.12.2
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```
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1.169 python3-setools 4.2.2 2.el8

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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 a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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

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

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

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

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

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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

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

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

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

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

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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.

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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 a storage or distribution medium does not bring the other work under the scope of this License.

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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.
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a) Accompany the work with the complete corresponding
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Sections 1 and 2 above); and, if the work is an executable linked
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uses the Library", as object code and/or source code, so that the
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executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
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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
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d) If distribution of the work is made by offering access to copy
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specified materials from the same place.

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For an executable, the required form of the "work that uses the
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components (compiler, kernel, and so on) of the operating system on
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1.176 python3-debtcollector 1.22.0
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1.177 libselinux 2.6-3.debian

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This package was debianized by Colin Walters <walters@debian.org> on Thu, 3 Jul 2003 17:10:57 -0400.

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1.178 librepo 1.11.0 3.el8_2
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1.181 python3-etcd 0.4.5.cisco 1
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Found in path(s):
* /opt/cola/permits/1162151452_1620793486.81/0/python3-etcd-0.4.5.cisco-1.src.rpm-cosi-expand-archive-6kwSYg7x/python3-etcd.spec
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from setuptools import setup, find_packages
import sys, os

here = os.path.abspath(os.path.dirname(__file__))
README = open(os.path.join(here, 'README.rst')).read()
NEWS = open(os.path.join(here, 'NEWS.txt')).read()

version = '0.4.5.cisco'

install_requires = [
    'urllib3>=1.7.1',
    'dnspython>=1.13.0'
]

testRequires = [
    'mock',
    'nose',
    'pyOpenSSL>=0.14'
]
setup(
    name='python3-etcd',
    version=version,
    description="A python client for etcd",
    long_description=README + '
    ' + NEWS,
    classifiers=[
        "Topic :: System :: Distributed Computing",
        "Topic :: Software Development :: Libraries",
        "License :: OSI Approved :: MIT License",
        "Programming Language :: Python :: 2",
        "Programming Language :: Python :: 3",
        "Topic :: Database :: Front-Ends",
    ],
    keywords='etcd raft distributed log api client',
    author='Jose Plana',
    author_email='jplana@gmail.com',
    url='http://github.com/jplana/python-etcd',
    license='MIT',
    packages=find_packages('src'),
    package_dir = {'': 'src'},
    include_package_data=True,
    zip_safe=False,
    install_requires=install_requires,
    tests_require=test_requires,
    test_suite='nose.collector',
)

Found in path(s):
* /opt/cola/permits/1162151452_1620793486.81/0/python3-etcd-0.4.5.cisco-1.src.rpm-cosi-expand-archive-6kwSYg7x/python3-etcd-0.4.5.cisco.tar.gz-cosi-expand-archive-AzYSHSrJ/python3-etcd-0.4.5.cisco/setup.py
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Metadata-Version: 1.1
Name: python3-etcd
Version: 0.4.5.cisco
Summary: A python client for etcd
Home-page: http://github.com/jplana/python-etcd
Author: Jose Plana
Author-email: jplana@gmail.com
License: MIT
Description: python-etcd documentation

A python client for Etcdrhttps://github.com/coreos/etcd

Official documentation: http://python-etcd.readthedocs.org/
Installation
------------

Pre-requirements
~~~~~~~~~~~~~~~~

This version of python-etcd will only work correctly with the etcd server version 2.0.x or later. If you are running an older version of etcd, please use python-etcd 0.3.3 or earlier.

This client is known to work with python 2.7 and with python 3.3 or above. It is not tested or expected to work in more outdated versions of python.

From source
~~~~~~~~~~~

.. code:: bash

$ python setup.py install

Usage
-----

The basic methods of the client have changed compared to previous versions, to reflect the new API structure; however a compatibility layer has been maintained so that you don't necessarily need to rewrite all your existing code.

Create a client object
~~~~~~~~~~~~~~~~~~~~~~

.. code:: python

    import etcd

    client = etcd.Client() # this will create a client against etcd server running on localhost on port 4001
    client = etcd.Client(port=4002)
    client = etcd.Client(host='127.0.0.1', port=4003)
    client = etcd.Client(host=('127.0.0.1', 4001), ('127.0.0.1', 4002), ('127.0.0.1', 4003))
    client = etcd.Client(host='127.0.0.1', port=4003, allow_redirect=False) # wont let you run sensitive commands on non-leader machines, default is true

# If you have defined a SRV record for _etcd._tcp.example.com pointing to the clients
client = etcd.Client(srv_domain='example.com', protocol="https")
# create a client against https://api.example.com:443/etcd
client = etcd.Client(host='api.example.com', protocol='https', port=443, version_prefix='/etcd')

Write a key
~~~~~~~~~~~~

.. code:: python

    client.write('/nodes/n1', 1)
    # with ttl
    client.write('/nodes/n2', 2, ttl=4)  # sets the ttl to 4 seconds
    client.set('/nodes/n2', 1) # Equivalent, for compatibility reasons.

Read a key
~~~~~~~~~~

.. code:: python

    client.read('/nodes/n2').value
    client.read('/nodes', recursive = True) #get all the values of a directory, recursively.
    client.get('/nodes/n2').value

    # raises etcd.EtcdKeyNotFound when key not found
    try:
        client.read('/invalid/path')
    except etcd.EtcdKeyNotFound:
        # do something
        print "error"

Delete a key
~~~~~~~~~~~~

.. code:: python

    client.delete('/nodes/n1')

Atomic Compare and Swap
~~~~~~~~~~~~~~~~~~~~~~~

.. code:: python

    client.write('/nodes/n2', 2, prevValue = 4) # will set /nodes/n2 's value to 2 only if its previous value was 4 and
    client.write('/nodes/n2', 2, prevExist = False) # will set /nodes/n2 's value to 2 only if the key did not exist before
    client.write('/nodes/n2', 2, prevIndex = 30) # will set /nodes/n2 's value to 2 only if the key was last modified at index 30
    client.test_and_set('/nodes/n2', 2, 4) #equivalent to client.write('/nodes/n2', 2, prevValue = 4)
You can also atomically update a result:

```python
result = client.read('/foo')
print(result.value) # bar
result.value += u'bar'
updated = client.update(result) # if any other client wrote '/foo' in the meantime this will fail
print(updated.value) # barbar
```

Watch a key
~~~~~~~~~~~

```python
client.read('/nodes/n1', wait=True) # will wait till the key is changed, and return once its changed
client.read('/nodes/n1', wait=True, timeout=30) # will wait till the key is changed, and return once its changed, or exit with an exception after 30 seconds.
client.read('/nodes/n1', wait=True, waitIndex=10) # get all changes on this key starting from index 10
client.watch('/nodes/n1') # equivalent to client.read('/nodes/n1', wait=True)
client.watch('/nodes/n1', index=10)
```

Refreshing key TTL
~~~~~~~~~~~~~~~~~~

(Since etcd 2.3.0) Keys in etcd can be refreshed without notifying current watchers.

This can be achieved by setting the refresh to true when updating a TTL.

You cannot update the value of a key when refreshing it.

```python
client.write('/nodes/n1', 'value', ttl=30)  # sets the ttl to 30 seconds
client.refresh('/nodes/n1', ttl=600)  # refresh ttl to 600 seconds, without notifying current watchers
```

Locking module
~~~~~~~~~~~~~~

```python
# Initialize the lock object:
# NOTE: this does not acquire a lock yet
client = etcd.Client()
# Or you can custom lock prefix, default is '/_locks/' if you are using HEAD
client = etcd.Client(lock_prefix='/my_etcd_root/_locks')
lock = etcd.Lock(client, 'my_lock_name')
```
# Use the lock object:
lock.acquire(blocking=True, # will block until the lock is acquired
    lock_ttl=None) # lock will live until we release it
lock.is_acquired # True
lock.acquire(lock_ttl=60) # renew a lock
lock.release() # release an existing lock
lock.is_acquired # False

# The lock object may also be used as a context manager:
client = etcd.Client()
with etcd.Lock(client, 'customer1') as my_lock:
    do_stuff()
    my_lock.is_acquired # True
    my_lock.acquire(lock_ttl=60)
    my_lock.is_acquired # False

Get machines in the cluster
~~~~~~~~~~~~~~~~~~~~~~~~~~~~

.. code:: python

    client.machines

Get leader of the cluster
~~~~~~~~~~~~~~~~~~~~~~~~~

.. code:: python

    client.leader

Generate a sequential key in a directory
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

.. code:: python

    x = client.write("/dir/name", "value", append=True)
    print("generated key: " + x.key)
    print("stored value: " + x.value)

List contents of a directory
~~~~~~~~~~~~~~~~~~~~~~~~~~~

.. code:: python

    #stick a couple values in the directory
    client.write("/dir/name", "value1", append=True)
client.write("/dir/name", "value2", append=True)

directory = client.get("/dir/name")

# loop through directory children
for result in directory.children:
    print(result.key + " ": " + result.value)

# or just get the first child value
print(directory.children.next().value)

Development setup
-----------------

To create a buildout,

.. code:: bash

    $ python bootstrap.py
    $ bin/buildout

to test you should have etcd available in your system path:

.. code:: bash

    $ bin/test

to generate documentation,

.. code:: bash

    $ cd docs
    $ make

Release HOWTO
--------------

To make a release

1) Update release date/version in NEWS.txt and setup.py
2) Run 'python setup.py sdist'
3) Test the generated source distribution in dist/
4) Upload to PyPI: 'python setup.py sdist register upload'

News
=====
0.4.5
-----

* Release date: 3-Mar-2017*

* Remove dnspython2/3 requirement
* Change property name setter in lock
* Fixed acl tests
* Added version/cluster_version properties to client
* Fixes in lock when used as context manager
* Fixed improper usage of urllib3 exceptions
* Minor fixes for error classes
* In lock return modifiedIndex to watch changes
* In lock fix context manager exception handling
* Improvements to the documentation
* Remove _base_uri only after refresh from cluster
* Avoid double update of _machines_cache

0.4.4
-----

* Release date: 10-Jan-2017*

* Fix some tests
* Use sys.version_info tuple, instead of named tuple
* Improve & fix documentation
* Fix python3 specific problem when blocking on contented lock
* Add refresh key method
* Add custom lock prefix support

0.4.3
-----

* Release date: 14-Dec-2015*

* Fix check for parameters in case of connection error
* Python 3.5 compatibility and general python3 cleanups
* Added authentication and module for managing ACLs
* Added srv record-based DNS discovery
* Fixed (again) logging of cluster id changes
* Fixed leader lookup
* Properly retry request on exception
* Client: clean up open connections when deleting

0.4.2
-----

* Release date: 8-Oct-2015*

* Fixed lock documentation
* Fixed lock sequences due to etcd 2.2 change
* Better exception management during response processing
* Fixed logging of cluster ID changes
* Fixed subtree results
* Do not check cluster ID if etcd responses don't contain the ID
* Added a cause to EtcdConnectionFailed

0.4.1
-----
* Release date: 1-Aug-2015*

* Added client-side leader election
* Added stats endpoints
* Added logging
* Better exception handling
* Check for cluster ID on each request
* Added etcd.Client.members and fixed etcd.Client.leader
* Removed locking and election etcd support
* Allow the use of etcd proxies with reconnections
* Implement pop: Remove key from etc and return the corresponding value.
* Eternal watcher can be now recursive
* Fix etcd.Client machines
* Do not send parameters with `None` value to etcd
* Support ttl=0 in write.
* Moved pyOpenSSL into test requirements.
* Always set certificate information so redirects from http to https work.

0.3.3
-----
* Release date: 12-Apr-2015*

* Forward leaves_only value in get_subtree() recursive calls
* Fix README prevExists->prevExist
* Added configurable version_prefix
* Added support for recursive watch
* Better error handling support (more detailed exceptions)
* Fixed some unreliable tests

0.3.2
-----
* Release date: 4-Aug-2014*

* Fixed generated documentation version.
0.3.1
-----

*Release date: 4-Aug-2014*

* Added consistent read option
* Fixed timeout parameter in read()
* Added atomic delete parameter support
* Fixed delete behaviour
* Added update method that allows atomic updated on results
* Fixed checks on write()
* Added leaves generator to EtcdResult and get_subtree for recursive fetch
* Added etcd_index to EtcdResult
* Changed ethernal -> eternal
* Updated urllib3 & pyOpenSSL libraries
* Several performance fixes
* Better parsing of etcd_index and raft_index
* Removed duplicated tests
* Added several integration and unit tests
* Use etcd v0.3.0 in travis
* Execute test using `python setup.py test` and nose

0.3.0
-----

*Release date: 18-Jan-2014*

* API v2 support
* Python 3.3 compatibility

0.2.1
-----

*Release data: 30-Nov-2013*

* SSL support
* Added support for subdirectories in results.
* Improve test
* Added support for reconnections, allowing death node tolerance.

0.2.0
-----

*Release date: 30-Sep-2013*
* Allow fetching of multiple keys (sub-nodes)

---

*Release date: 18-Sep-2013*

* Initial release

Keywords: etcd raft distributed log api client
Platform: UNKNOWN
Classifier: Topic :: System :: Distributed Computing
Classifier: Topic :: Software Development :: Libraries
Classifier: License :: OSI Approved :: MIT License
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 3
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Found in path(s):
* /opt/cola/permits/1162151452_1620793486.81/0/python3-etcd-0.4.5.cisco-1.src.rpm-cosi-expand-archive-6kwSYg7x/python3-etcd-0.4.5.cisco.tar.gz-cosi-expand-archive-AzYSHSrJ/python3-etcd-0.4.5.cisco/src/python3_etcd.egg-info/PKG-INFO
* /opt/cola/permits/1162151452_1620793486.81/0/python3-etcd-0.4.5.cisco-1.src.rpm-cosi-expand-archive-6kwSYg7x/python3-etcd-0.4.5.cisco.tar.gz-cosi-expand-archive-AzYSHSrJ/python3-etcd-0.4.5.cisco/PKG-INFO

1.182 rabbitmq-server 3.7.23 2.el8ost

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Version 1.1
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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, deestation, rs6000, and hp300hpx 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-coffbfd) 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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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.

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

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

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

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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

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

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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").

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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.)

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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.

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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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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.

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

participant nova_conductor
participant nova_compute1
participant nova_compute2
participant neutron_server
participant neutron_l2_agent2
participant neutron_l2_agent1
participant neutron_l3_agent2
participant neutron_l3_agent1

nova_conductor -> nova_compute1 : live_migrate
activate nova_compute1
 nova_compute1 -> nova_compute2 : RPC.call : pre_live_migrate()
activate nova_compute2
 nova_compute2 -> neutron_server : REST : list_port()
activate neutron_server
 neutron_server -> nova_compute2
deactivate neutron_server
@enduml
group port plugged on host2
  nova_compute2 -> nova_compute2 : plug_vifs()
activate neutron_l2_agent2
  neutron_l2_agent2 -> neutron_server : RPC.call : get_devices_details_list_and_failed_devices(devices : [port])
activate neutron_server
  neutron_server -> neutron_l2_agent2
deactivate neutron_server
  neutron_l2_agent2 -> neutron_server : RPC.call : update_device_list(devices_up : [port])
activate neutron_server
  neutron_server -> neutron_l2_agent2
deactivate neutron_server
note over neutron_server
  port status is never changed since port is not bound to host2
end note
  deactivate neutron_l2_agent2
end
	nova_compute2 -> nova_compute1
deactivate nova_compute2

group proactive dvr router creation
  nova_compute1 -> neutron_server : REST : update_port('binding:profile'={'migrating_to':host2})
activate neutron_server
  neutron_server -> neutron_l3_agent1: RPC.cast(fanout) : port_update(port)
activate neutron_l3_agent1
  destroy neutron_l3_agent1
note over neutron_l3_agent1
  "migrating_to" does not match host
end note
  neutron_server -> neutron_l3_agent2: RPC.cast(fanout) : port_update(port)
activate neutron_l3_agent2
  proactively create DVR router
end note
  deactivate neutron_l3_agent2
  neutron_server -> nova_compute1
deactivate neutron_server
end

note over nova_compute1, nova_compute2
  libvirt handles the live-migration
end note

note left of nova_compute1
  live migration succeeded
nova_compute1 -> nova_compute1 : post_live_migration

group port unplugged on host1
    nova_compute1 -> nova_compute1 : unplug_vifs()
    activate neutron_l2_agent1
    neutron_l2_agent1 -> neutron_server : RPC.call : update_device_list(devices_down : [port])
    activate neutron_server
    neutron_server -> neutron_server : update_port_status(DOWN)
    deactivate neutron_l2_agent1
    note over neutron_server
        port status changed to
        DOWN since port is bound
        to host1
    deactivate neutron_server
end
	nova_compute1 -> nova_compute2 : RPC.cast : post_live_migration_at_destination()

deaactivate nova_compute1
activate nova_compute2

~nova_compute2 -> neutron_server : REST : update_port({'binding:host_id':'host2', 'binding:profile':{} })
activate neutron_server
    neutron_server -> neutron_server : update_port_status(DOWN)
    neutron_server -> neutron_l2_agent1 : RPC.cast(fanout) : port_update(port)
    activate neutron_l2_agent1
    destroy neutron_l2_agent1
    note over neutron_l2_agent1
        port not hosted
        on host1
end note

neutron_server -> neutron_l2_agent2 : RPC.cast(fanout) : port_update(port)
activate neutron_l2_agent2
neutron_server -> nova_compute2
deactivate nova_compute2
deaactivate neutron_server

group port_update processed by agent that really hosts the port
    neutron_l2_agent2 -> neutron_server : RPC.call : get_devices_details_list_and_failed_devices(devices : [port])
    activate neutron_server
    neutron_server -> neutron_server : update_port_status(BUILD)
    deactivate neutron_server
    neutron_l2_agent2 -> neutron_server : RPC.call : update_device_list(devices_up : [port])
    activate neutron_server
    neutron_server -> neutron_server : update_port_status(ACTIVE)
neutron_server -> neutron_l2_agent2
deactivate neutron_server
note over neutron_server
    port status changed to
    ACTIVE since port
    is now bound to host2
end note
deactivate neutron_l2_agent2
end group
@enduml

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@startuml

title live-migration with ovs-normal plug : nova<->neutron interactions

participant nova_conductor
participant nova_compute1
participant nova_compute2
participant neutron_server
participant neutron_l2_agent2
participant neutron_l2_agent1
participant neutron_l3_agent2

nova_conductor -> nova_compute1 : live_migrate
activate nova_compute1
nova_compute1 -> nova_compute2 : RPC.call : pre_live_migrate()
activate nova_compute2
nova_compute2 -> neutron_server : REST : list_port()
activate neutron_server
neutron_server -> nova_compute2
deactivate neutron_server

nova_compute2 -> nova_compute2 : plug_vifs()
nova_compute2 -> nova_compute1
deactivate nova_compute2

group proactive dvr router creation
    nova_compute1 -> neutron_server : REST : update_port('binding:profile'={'migrating_to':'host2'})
activate neutron_server
    neutron_server -> neutron_l3_agent1: RPC.cast(fanout) : port_update(port)
activate neutron_l3_agent1
destroy neutron_l3_agent1
note over neutron_l3_agent1
"migrating_to" does not match host
end note
    neutron_server -> neutron_l3_agent2: RPC.cast(fanout) : port_update(port)
activate neutron_l3_agent2
note over neutron_l3_agent2
    proactively create DVR router
deactivate neutron_l3_agent2
neutron_server -> nova_compute1
deactivate neutron_server
end

note over nova_compute1, nova_compute2
  libvirt handles the live-migration
end note

group port plugged on host2
  libvirt creates tap device
end note
neutron_l2_agent2 -> neutron_server : RPC.call : get_devices_details_list_and_failed_devices(devices : [port])
activate neutron_l2_agent2
activate neutron_server
neutron_server -> neutron_l2_agent2
deactivate neutron_server
neutron_l2_agent2 -> neutron_server : RPC.call : update_device_list(devices_up : [port])
activate neutron_server
neutron_server -> neutron_l2_agent2
deactivate neutron_server
note over neutron_server
  port status is never
  changed since port
  is not bound to host2
end note
deactivate neutron_l2_agent2
end

group port unplugged on host1

note over nova_compute1
  libvirt destroys the VM
  and corresponding tap device
end note

neutron_l2_agent1 -> neutron_server : RPC.call : update_device_list(devices_down : [port])
activate neutron_l2_agent1
activate neutron_server
neutron_server -> neutron_server : update_port_status(DOWN)
neutron_server -> neutron_l2_agent1
deactivate neutron_l2_agent1
note over neutron_server
  port status changed to
  DOWN since port is bound
to host1  
end note  
deactivate neutron_server  
end  

note left of nova_compute1  
live migration  
succeeded  
end note  

nova_compute1 -> nova_compute1 : post_live_migration  
nova_compute1 -> nova_compute1 : unplug_vifs()  
	nova_compute1 -> nova_compute2 : RPC.cast : post_live_migration_at_destination()  
deactivate nova_compute1  
activate nova_compute2  
nova_compute2 -> neutron_server : REST : update_port({'binding:host_id':'host2', 'binding:profile':{}})  
activate neutron_server  
neutron_server -> neutron_server : update_port_status(DOWN)  
neutron_server -> neutron_l2_agent1 : RPC.cast(fanout) : port_update(port)  
activate neutron_l2_agent1  
destroy neutron_l2_agent1  
note over neutron_l2_agent1  
port not hosted  
on host1  
end note  

neutron_server -> neutron_l2_agent2 : RPC.cast(fanout) : port_update(port)  
activate neutron_l2_agent2  
neutron_server -> nova_compute2  
deactivate nova_compute2  
deactivate neutron_server  

group port_update processed by agent that really hosts the port  
neutron_l2_agent2 -> neutron_server : RPC.call : get_devices_details_list_and_failed_devices(devices : [port])  
activate neutron_server  
neutron_server -> neutron_server : update_port_status(BUILD)  
deactivate neutron_server  
neutron_l2_agent2 -> neutron_server : RPC.call : update_device_list(devices_up : [port])  
activate neutron_server  
neutron_server -> neutron_server : update_port_status(ACTIVE)  
deactivate neutron_server  
note over neutron_server  
port status changed to  
ACTIVE since port  
is now bound to host2
end note
deactivate neutron_l2_agent2
deactivate neutron_l2_agent2
end group
@enduml

1.203 cairo 1.15.12 3.el8
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<table>
<thead>
<tr>
<th>Font</th>
<th>License</th>
<th>Distinguishing feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>6x13.pcf</td>
<td>Public Domain</td>
<td>Bitmap font</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Image</th>
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</tr>
</thead>
<tbody>
<tr>
<td>romedalen.jpg</td>
<td>Public Domain</td>
<td>Bitmap image (image/jpeg)</td>
</tr>
<tr>
<td>romedalen.png</td>
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Version 3, 29 June 2007
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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.

GNU LIBRARY GENERAL PUBLIC LICENSE

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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

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

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation 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 compile or link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

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

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

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

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

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

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

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

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

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

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
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infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

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

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

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14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

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15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.
This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library 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. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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

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

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

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

That's all there is to it!

1.206 wget 1.19.5 8.el8_1.1

1.206.1 Available under license:

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Version 3, 29 June 2007

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Preamble

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The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program—to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, 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 them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

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

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

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

TERMS AND CONDITIONS

0. Definitions.

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

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

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

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

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

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

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

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.


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

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

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

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

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

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

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated
conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

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

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

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

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

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

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

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

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

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

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

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

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

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

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

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

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the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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

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a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
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
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c) If distribution of the work is made by offering access to copy
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For an executable, the required form of the "work that uses the
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reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
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components (compiler, kernel, and so on) of the operating system on
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It may happen that this requirement contradicts the license
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active_anon 0
inactive_file 0
active_file 0
unevictable 0
slab_reclaimable 0
slab_unreclaimable 0
pgfault 297
pgmajfault 0
workingset_refault 0
workingset_activate 0
workingset_nodereclaim 0
pgrefill 97
pgscan 167
pgsteal 33
pgactivate 0
pgdeactivate 97
pglazyfree 0
pglazyfreed 0
thp_fault_alloc 0
thp_collapse_alloc 0
max
some avg10=0.00 avg60=0.00 avg300=0.00 total=0
full avg10=0.00 avg60=0.00 avg300=0.00 total=0
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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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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usage_usec 6245
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full avg10=0.00 avg60=0.00 avg300=0.00 total=66268
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1.218 python3-xstatic-angular-schema-form

0.8.13.0 1.el8ost

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1.222 elasticsearch-transport 6.1.0

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1.223 openstack-glance 19.0.4

1.20201114010259.5bbd356.el8ost

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1.224 gstreamer 1.16.1 2.el8

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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 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.

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1.225 libblockdev 2.19 12.el8
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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.

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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.

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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.

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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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- 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.

- 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.

- 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:

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----------------------------------------
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1.245 python3-pbr 5.1.2 2.el8ost

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1.254 `docutils 0.14`

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:Contact: goodger@python.org
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# processing text files in and below this directory.

[buihtml application]
prune: .
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI) in the Netherlands as a successor of a
language called ABC. Guido is Python's principal author, although it
includes many contributions from others. The last version released
from CWI was Python 1.2. In 1995, Guido continued his work on Python
at the Corporation for National Research Initiatives (CNRI) in Reston,
Virginia where he released several versions of the software. Python
1.6 was the last of the versions released by CNRI. In 2000, Guido and
the Python core development team moved to BeOpen.com to form the
BeOpen PythonLabs team. Python 2.0 was the first and only release
from BeOpen.com.

Following the release of Python 1.6, and after Guido van Rossum left
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1.258 python3-sqlparse 0.2.2 6.1.el8ost

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1.259 basesystem 11 5.el8

1.259.1 Available under license :

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

%global distroname %(source /etc/os-release; echo ${REDHAT_SUPPORT_PRODUCT})

Summary: The skeleton package which defines a simple %{distroname} system
Name: basesystem
Version: 11
Release: 5%{?dist}
License: Public Domain
Group: System Environment/Base
Requires(pre): setup filesystem
BuildArch: noarch

%description
Basesystem defines the components of a basic %{distroname} system
(for example, the package installation order to use during bootstrapping). Basesystem should be in every installation of a system, and it should never be removed.

%prep

%build

%install
%clean

%files
%defattr(-,root,root,-)

%changelog
* Tue May 07 2019 CentOS Sources <bugs@centos.org> - 11-5.el8.centos
  - adjust description
  - adjust summary

* Wed Feb 07 2018 Fedora Release Engineering <releng@fedoraproject.org> - 11-5
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_28_Mass_Rebuild

* Wed Jul 26 2017 Fedora Release Engineering <releng@fedoraproject.org> - 11-4
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_27_Mass_Rebuild

* Wed Jul 26 2017 Fedora Release Engineering <releng@fedoraproject.org> - 11-3
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_26_Mass_Rebuild

* Wed Feb 03 2016 Fedora Release Engineering <releng@fedoraproject.org> - 11-2
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_24_Mass_Rebuild

* Thu Jul 09 2015 Ondrej Vasik <ovasik@redhat.com> 11-1
  - automatically determine OS name at build time (#1195396)

* Wed Jun 17 2015 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-11
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_23_Mass_Rebuild

* Sat Jun 07 2014 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-10
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_21_Mass_Rebuild

* Sat Aug 03 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-9
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_20_Mass_Rebuild

* Wed Feb 13 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-8
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_19_Mass_Rebuild

* Wed Jul 18 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-7
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild

* Thu Jan 12 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-6
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_17_Mass_Rebuild

* Thu Jun 23 2011 Ondrej Vasik <ovasik@redhat.com> 10.0-5
  - fix FTBFS typo (#715640), add disttag

* Mon Feb 07 2011 Fedora Release Engineering <rel-eng@lists.fedoraproject.org>
- Rebuilt for https://fedoraproject.org/wiki/Fedora_15_Mass_Rebuild

* Fri Jul 24 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-3
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_12_Mass_Rebuild

* Mon Feb 23 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-2
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_11_Mass_Rebuild

* Mon Oct 20 2008 Phil Knirsch <pknirsch@redhat.com> 10.0-1
  - Bump version and rebuild for Fedora 10 (#451289)

* Fri Mar 02 2007 Phil Knirsch <pknirsch@redhat.com> - 8.1-1
  - Cleanup per package review (#225608)

* Wed Jul 12 2006 Jesse Keating <jkeating@redhat.com> - 8.0-5.1.1
  - rebuild

* Fri Dec 09 2005 Jesse Keating <jkeating@redhat.com>
  - rebuilt

* Wed Sep 22 2004 Bill Nottingam <notting@redhat.com>
  - rebuilt

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
  - rebuilt

* Wed Aug 21 2002 Bill Nottingam <notting@redhat.com>
  - bump rev

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Thu May 23 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
  - automatic rebuild

* Tue Jun 6 2000 Bill Nottingam <notting@redhat.com>
  - rebuild. Wheee.

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
- auto rebuild in the new build environment (release 4)

* Tue Mar 16 1999 Cristian Gafton <gafton@redhat.com>
- don't require rpm (breaks dependency chain)

* Tue Mar 16 1999 Erik Troan <ewt@redhat.com>
- require rpm

* Wed Dec 30 1998 Cristian Gafton <gafton@redhat.com>
- build for 6.0

* Tue Aug 11 1998 Jeff Johnson <jbj@redhat.com>
- build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
- translations modified for de, fr, tr

* Tue Sep 23 1997 Erik Troan <ewt@redhat.com>
- made a noarch package

Found in path(s):
* /opt/cola/permits/1162153197_1620790598.99/0/basesystem-11-5.el8-1.src.rpm-cosi-expand-archive-viAmV014/basesystem.spec

1.260 google-auth 1.6.2
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1.264 pcre 8.42 4.el8
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THE BASIC LIBRARY FUNCTIONS
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# Contributions to the urllib3 project

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* HTTPS patch (which inspired HTTPSConnectionPool)
* erikcederstrand <http://code.google.com/u/erikcederstrand/>
* NTLM-authenticated HTTPSConnectionPool
* Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
* Client-verified SSL certificates for HTTPSConnectionPool
* Response gzip and deflate encoding support
* Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
* Non-multipart encoding for POST requests

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* IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
* Support for explicitly closing pooled connections

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* Thomas Weischuh <thomas@t-8ch.de>
* Support for TLS SNI
* API unification of ssl_version/cert_reqs
* SSL fingerprint and alternative hostname verification
* Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
* Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
* Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
* Correct six.moves conflict
* Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
* Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs
* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.
* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in ```stream``` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarks.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vendoring

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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That's all there is to it!
1.270 python3-markupsafe 1.1.0 2.el8ost

1.270.1 Available under license:

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 * markupsafe._speedups
 * ~~~~~~~~~~~~~~~~~~~~
 * C implementation of escaping for better performance. Used instead of
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* /opt/cola/permits/1162150427_1620797940.11/0/python-markupsafe-1.1.0-2.el8ost.src.rpm-cosi-expand-archive-2ZldRlj5/MarkupSafe-1.1.0.tar.gz-cosi-expand-archive-233ATaoY/MarkupSafe-1.1.0/src/markupsafe/_speedups.c
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Metadata-Version: 1.2
Name: MarkupSafe
Version: 1.1.0
Summary: Safely add untrusted strings to HTML/XML markup.
Home-page: https://www.palletsprojects.com/p/markupsafe/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets Team
Maintainer-email: contact@palletsprojects.com
License: BSD
Project-URL: Documentation, https://markupsafe.palletsprojects.com/
Description: MarkupSafe

==========

MarkupSafe implements a text object that escapes characters so it is safe to use in HTML and XML. Characters that have special meanings are replaced so that they display as the actual characters. This mitigates injection attacks, meaning untrusted user input can safely be displayed on a page.

Installing
---------

Install and update using `pip`:

.. code-block:: text

   pip install -U MarkupSafe


Examples
--------

.. code-block:: pycon

   >>> from markupsafe import Markup, escape
   >>> # escape replaces special characters and wraps in Markup
   >>> escape('&lt;script>alert(document.cookie);&lt;/script&gt;')
   Markup(u'&lt;script>alert(document.cookie);&lt;/script&gt;')
   >>> # wrap in Markup to mark text "safe" and prevent escaping
   >>> Markup('&lt;strong&gt;Hello&lt;/strong&gt;')
   Markup('strong&gt;Hello&lt;/strong&gt;')
   >>> escape(Markup('&lt;strong&gt;Hello&lt;/strong&gt;'))
>>> # Markup is a text subclass (str on Python 3, unicode on Python 2)
>>> # methods and operators escape their arguments
>>> template = Markup("Hello <em>%s</em>")
>>> template % "World"
Markup('Hello <em>&#34;World&#34;</em>')

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-----

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Links
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* Website: https://www.palletsprojects.com/p/markupsafe/
* Documentation: https://markupsafe.palletsprojects.com/
* License: `BSD <https://github.com/pallets/markupsafe/blob/master/LICENSE.rst>`_
* Releases: https://pypi.org/project/MarkupSafe/
* Code: https://github.com/pallets/markupsafe
* Issue tracker: https://github.com/pallets/markupsafe/issues
* Test status:

  * Linux, Mac: https://travis-ci.org/pallets/markupsafe
  * Windows: https://ci.appveyor.com/project/pallets/markupsafe

* Test coverage: https://codecov.io/gh/pallets/markupsafe

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/ Stable
Classifier: Environment :: Web Environment
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
1.271 python3-urwid 1.3.1 4.el8

1.271.1 Available under license:

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

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Thus, it is not the intent of this section to claim rights or contest
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it 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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1.272 python3-pyxattr 0.5.3 19.el8ost
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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you
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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.

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.

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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.

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

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

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That's all there is to it!
Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
  Original author of sensord.
* Bob Schlaermann
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  libsensors and sensors.
* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

**1.276 jimmidyson-configmap-reload 0.2.2**

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(* This is the traditional virt-sparsify mode: We copy from a source disk to a destination disk. *)

open Unix
open Printf

open Std_utils
open Tools_utils
open Common_gettext.Gettext
open Unix_utils

open Utils
open Cmdline

module G = Guestfs

type tmp_place =
    | Directory of string
    | Block_device of string
    | Prebuilt_file of string

let run indisk outdisk check_tmpdir compress convert
  format ignores option tmp_param zeroes ks =

  (* Once we have got past argument parsing and start to create temporary files (including the potentially massive overlay file), we need to catch SIGINT (^C) and exit cleanly so the temporary file goes away. Note that we don't delete temporaries in the signal handler. *)

  let do_sigint _ = exit 1 in
  Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

  (* What should the output format be? If the user specified an input format, use that, else detect it from the source image. *)

  let output_format =
    match convert with
match format with
| Some fmt -> fmt (* user specified output conversion *)
| None ->

match (open_guestfs ())#disk_format indisk with
| "unknown" ->
  error (f_("cannot detect input disk format; use the --format parameter")
| fmt -> fmt in

match (open_guestfs ())#disk_format indisk with
| "unknown" ->
  error (f_("cannot detect input disk format; use the --format parameter")
| fmt -> fmt in

if output_format = "raw" && compress then
  error (f_("--compress cannot be used for raw output. Remove this option or use --convert qcow2.")

let tmp_place =
match tmp_param with
| None -> Directory (Filename.get_temp_dir_name ()) (* $TMPDIR or /tmp *)
| Some dir when is_directory dir -> Directory dir
| Some dev when is_block_device dev -> Block_device dev
| Some file when String.is_prefix file "prebuilt:" ->
  let file = String.sub file 9 (String.length file - 9) in
  if not (Sys.file_exists file) then
    error (f_("--tmp prebuilt:file: %s: file does not exist") file;
  let g = open_guestfs () in
  if g#disk_format file <> "qcow2" then
    error (f_("--tmp prebuilt:file: %s: file format is not qcow2") file;
  if not (g#disk_has_backing_file file) then
    error (f_("--tmp prebuilt:file: %s: file does not have backing file")
  file;
  Prebuilt_file file
| Some path ->
  error (f_("--tmp parameter must point to a directory, block device or prebuilt file") in

let virtual_size = (open_guestfs ())#disk_virtual_size indisk in
define virtual_size (human_size virtual_size);

let tmpdir -> (* Get virtual size of the input disk. *)
define virtual_size (human_size virtual_size);

let free_space = StatVFS.free_space (StatVFS.statvfs tmpdir) in
let extra_needed = virtual_size -^ free_space in
if extra_needed > 0L then (  
    warning (f_"%s.  You may need to set TMPDIR to point to a directory with more free space.
Max needed: %s.  Free: %s.  May need another %s.  
Note this is an overestimate. If the guest disk is full of data 
then not as much free space would be required.
You can ignore this warning or change it to a hard failure using the 
--check-tmpdir=(ignore|continue|warn|fail) option. See virt-sparsify(1). 
%!")
    tmdir (human_size virtual_size) 
    (human_size free_space) (human_size extra_needed); 
    true 
) else false 
in
match check_tmdir with
| `Ignore -> ()
| `Continue -> ignore (print_warning ())
| `Warn -> 
    if print_warning () then ( 
        eprintf "Press RETURN to continue or ^C to quit.\n!%!";
        ignore (read_line ())
    );
| `Fail -> 
    if print_warning () then ( 
        eprintf "Exiting because --check-tmpdir=fail was set.\n!%!";
        exit 2 
    )
);
(* Create the temporary overlay file. *)
let overlaydisk =
    (match tmp_place with 
    | Directory tmdir -> 
        message (f_"Create overlay file in %s to protect source disk") tmdir 
    | Block_device device -> 
        message (f_"Create overlay device %s to protect source disk") device 
    | Prebuilt_file file -> 
        message (f_"Using prebuilt file %s as overlay") file 
    );

(* Create 'tmp' with the indisk as the backing file. *)
let create tmp =
let g = open_guestfs () in
  g#disk_create
  ~backingfile:indisk ?backingformat:format ~compat:"1.1"
  tmp "qcow2" Int64.minus_one

match tmp_place with
    | Directory temp_dir ->
    let tmp = Filename.temp_file ~temp_dir "sparsify" "qcow2" in
    unlink_on_exit tmp;
    create tmp;
    tmp
    | Block_device device ->
    create device;
    device
    | Prebuilt_file file ->
    (* Don't create anything, use the prebuilt file as overlay. *)
    file in

message (f_"Examine source disk");

(* Connect to libguestfs. *)
let g =
  let g = open_guestfs () in

  (* Note that the temporary overlay disk is always qcow2 format. *)
g#add_drive ~format:"qcow2" ~readonly:false ~cachemode:"unsafe" overlaydisk;

if not (quiet ()) then (n
  let machine_readable = machine_readable () <> None in
  Progress.set_up_progress_bar ~machine_readable g );
  g#launch ();
  g in

(* Decrypt the disks. *)
inspect_decrypt g ks;

(* Modify SIGINT handler (set first above) to cancel the handle. *)
let do_sigint _ =
  g#user_cancel ();
  exit 1
in
Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);
(* Write zeroes for non-ignored filesystems that we are able to mount, *
* and selected swap partitions. *)

let filesystems = g#list_filesystems () in
let btrfs_filesystems = List.filter (fun (fs, fstype) -> fstype = "btrfs") filesystems in
let btrfs_filesystems = List.map fst btrfs_filesystems in
let filesystems = List.map fst filesystems in
let filesystems = List.sort compare filesystems in

let is_ignored fs =
  let fs = g#canonical_device_name fs in
  List.exists (fun fs' -> fs = g#canonical_device_name fs') ignores in

let is_readonly_lv = is_read_only_lv g in

let is_readonly_btrfs_snapshot fs mp =
  try
    let is_btrfs = List.mem fs btrfs_filesystems in
    if is_btrfs then (try
      let vol_info = g#btrfs_subvolume_show mp in
      String.find (List.assoc "Flags" vol_info) "readonly" <> -1
      with G.Error _ -> false
    ) else false
  with Not_found -> false

let is_readonly_device mp =
  let statvfs = g#statvfs mp in
  let flags = statvfs.G.flag in
  (* 0x01 is ST_RDONLY in Linux' GNU libc. *)
  flags <> -1_L && (flags &^ 0x1_L) <> 0_L
in

List.iter (fun fs -> if not (is_ignored fs) && not (is_readonly_lv fs) then (if List.mem fs zeroes then (message (f_"Zeroing %s") fs; g#zero_device fs) else (let mounted = try g#mount fs "/"; true

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with _ -> false in

if mounted then (  
  if is_readonly_btrfs_snapshot fs "/" then (    
    info (f_"Skipping %s, as it is a read-only btrfs snapshot.") fs;  
  ) else if is_readonly_device "/" then (    
    info (f_"Skipping %s, as it is a read-only device.") fs;  
  ) else (    
    message (f_"Fill free space in %s with zero") fs;    
    g#zero_free_space "/"  
  )  
) else (  
  let is_linux_x86_swap =  
    (* Look for the signature for Linux swap on i386.    
    * Location depends on page size, so it definitely won't    
    * work on non-x86 architectures (eg. on PPC, page size is    
    * 64K). Also this avoids hibernated swap space: in those,    
    * the signature is moved to a different location.    
    *)    
    try g#pread_device fs 10 4086L = "SWAPSPACE2"    
    with _ -> false in
    if is_linux_x86_swap then (      
      message (f_"Clearing Linux swap on %s") fs;      
      (* Don't use mkswap. Just preserve the header containing      
      * the label, UUID and swap format version (libleguestfs      
      * mkswap may differ from guest's own).      
      *)      
      let header = g#pread_device fs 4096 0L in      
      g#zero_device fs;      
      if g#pwrite_device fs header 0L <> 4096 then      
        error (f_"pwrite: short write restoring swap partition header")      
      )      
    )  
  )  
)

  g#umount_all ()
)
)
)
) filesystems;

(* Fill unused space in volume groups. *)
let vgs = g#vgs () in
let vgs = Array.to_list vgs in
let vgs = List.sort compare vgs in
List.iter (  
  fun vg ->  
    if not (List.mem vg ignores) then (  

let lvname = String.random8 () in
let lvdev = "/dev/" ^ vg ^ "l" ^ lvname in

let created =
try g#lvcreate_free lvname vg 100; true
with _ -> false in

if created then (
message (f_"Fill free space in volgroup %s with zero") vg;

    g#zero_device lvdev;
    g#sync ();
    g#lvremove lvdev
  )
) vgs;

(* Don't need libguestfs now. *)
g#shutdown ();
g#close ();

(* Modify SIGINT handler (set first above) to just exit. *)
let do_sigint _ = exit 1 in
Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

(* Now run qemu-img convert which copies the overlay to the *
* destination and automatically does sparsification. *)
message ("Copy to destination and make sparse");

let cmd =
  sprintf "qemu-img convert -f qcow2 -O %s%s%s %s %s"
    (quote output_format)
    (if compress then " -c" else "")
    (match option with
      | None -> ""
      | Some option -> " -o " ^ quote option)
    (quote overlaydisk) (quote (qemu_input_filename outdisk)) in
if shell_command cmd <> 0 then
  error (f_"external command failed: %s") cmd;

(* Finished. *)
message (f_"Sparsify operation completed with no errors.");
if not (quiet ()) then
  info (f_"Before deleting the old disk, carefully check that the target disk boots and works correctly.")
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 *)

(** This is the traditional virt-sparsify mode: We copy from a
 source disk to a destination disk. *)

type tmp_place =
| Directory of string | Block_device of string | Prebuilt_file of string

val run : string -> string -> Cmdline.check_t -> bool -> string option -> string option -> string list -> string option ->
string option -> string list -> Tools_utils.key_store -> unit

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

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

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

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

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

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

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

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
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7. You may place library facilities that are a work based on the
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b) Give prominent notice with the combined library of the fact
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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1.278 python3-xstatic-magic-search 0.2.5.1
8.el8ost

1.278.1 Available under license:
No license file was found, but licenses were detected in source scan.

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Metadata-Version: 1.0
Name: XStatic-Magic-Search
Version: 0.2.5.1
Summary: Magic-Search 0.2.5 (XStatic packaging standard)
Home-page: https://github.com/eucalyptus/magic-search
Author: Randy Bertram
Author-email: rbertram@us.ibm.com
License: (same as Magic-Search)
Description: XStatic-MagicSearch

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

MagicSearch is an AngularJS directive that provides a UI for both faceted filtering and as-you-type filtering. It is intended for filtering tables, such as an AngularJS smart-table, but it can be used in any situation
where you can provide it with facets/options and consume its events.

MagicSearch was initially developed by David Kavanagh for Eucalyptus.

MagicSearch javascript library packaged for setuptools (easy_install) / pip.

This package is intended to be used by **any** project that needs these files.

It intentionally does **not** provide any extra code except some metadata
**nor** has any extra requirements. You MAY use some minimal support code from
the XStatic base package, if you like.

You can find more info about the xstatic packaging way in the package `XStatic`.

Keywords: magic_search xstatic
Platform: any

Found in path(s):
* /opt/cola/permits/1162151021_1620795720.65/0/python-XStatic-Magic-Search-0.2.5.1-8.el8ost.src.rpm-cosi-expand-archive-LW75EzQF/XStatic-Magic-Search-0.2.5.1.tar.gz-cosi-expand-archive-cdgraWaq/XStatic-Magic-Search-0.2.5.1/PKG-INFO
* /opt/cola/permits/1162151021_1620795720.65/0/python-XStatic-Magic-Search-0.2.5.1-8.el8ost.src.rpm-cosi-expand-archive-LW75EzQF/XStatic-Magic-Search-0.2.5.1.tar.gz-cosi-expand-archive-cdgraWaq/XStatic-Magic-Search-0.2.5.1/XStatic_Magic_Search.egg-info/PKG-INFO

1.279 libtheora 1.1.1 21.el8
1.279.1 Available under license :

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Codec Software, and the Theora video format is essentially compatible
with the VP3 video format, consisting of a backward-compatible superset.
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1.280 pango 1.42.4 6.el8
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Preamble

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

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

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

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

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

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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

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

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

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

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   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.)

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

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

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

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

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

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

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

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

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

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

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

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever 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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Just configure this file as the SSLCACertificateFile.#

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@(#) $SRC$file: certdata.txt,v $SV$Revision: 1.80 $S$Date: 2011/11/03 15:11:58 $
1.286 libxau 1.0.8 13.el8

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1.287 python3-oslo-utils 3.41.6

1.20201113232826.f4deaad.el8ost

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1.288 python3-os-resource-classes 0.5.0
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1.291 apr-util 1.6.1 6.el8

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1.292 krb5-libs 1.17 18.el8
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    cmd/krb5/slave/kpropd_rpc.c
    lib/gss_mechs/mech_krb5/et/kdb5_err.c
    lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
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    lib/krb5/kadm5/kadm_host_srv_names.c
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    lib/krb5/kdb/kdb_log.c
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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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1.297 userspace-rcu 0.10.1 2.el8

1.297.1 Available under license:

Mathieu Desnoyers
May 13th, 2009

IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the userspace RCU library in a patch submitted on May 8, 2009 from Paul E. McKenney and reviewed by Steven L. Bennett:


I (Mathieu Desnoyers) re-implemented ACCESS_ONCE(), likely(), unlikely() and barrier() from scratch without reference to the original code.

commit id : 2dc5fa0f7cfbfb0a64a7a67b39626650e863f16a

Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his patch in an email dated May 13, 2009:

http://lkml.org/lkml/2009/5/13/16

xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel and powerpc. They are MIT-licensed and therefore usable in LGPL code. This cmpxchg code was obtained from the atomic_ops project:

http://www.hpl.hp.com/research/linux/atomic_ops/

I (Mathieu Desnoyers) wrote the remainder of the code.

The license for the library files in this project was therefore changed to LGPLv2.1 on May 13, 2009, as detailed in LICENSE.
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1.299 libpmem 1.6.1 1.el8
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1.302 python3-contextlib2 0.5.5 8.el8ost
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
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```
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-----------------------
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doc/sitemap_gen.py

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util/unlink.py
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backport frop python3 Lib/test/support.py

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

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

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===========================
Advice for new contributors
===========================

New contributor and not sure what to do? Want to help but just don't know how to get started? This is the section for you.

.. admonition:: Basic tools and workflow

   If you are new to contributing to Django, the :doc:`/intro/contributing` tutorial will give you an introduction to the tools and the workflow.

First steps
===========

Start with these easy tasks to discover Django's development process.

* **Sign the Contributor License Agreement**

   The code that you write belongs to you or your employer. If your contribution is more than one or two lines of code, you need to sign the `CLA`_. See the `Contributor License Agreement FAQ`_ for a more thorough explanation.
**Triage tickets**

If an `unreviewed ticket` reports a bug, try and reproduce it. If you can reproduce it and it seems valid, make a note that you confirmed the bug and accept the ticket. Make sure the ticket is filed under the correct component area. Consider writing a patch that adds a test for the bug’s behavior, even if you don’t fix the bug itself. See more at :ref:`how-can-i-help-with-triaging`

**Look for tickets that are accepted and review patches to build familiarity with the codebase and the process**

Mark the appropriate flags if a patch needs docs or tests. Look through the changes a patch makes, and keep an eye out for syntax that is incompatible with older but still supported versions of Python. :doc:`Run the tests </internals/contributing/writing-code/unit-tests>` and make sure they pass. Where possible and relevant, try them out on a database other than SQLite. Leave comments and feedback!

**Keep old patches up to date**

Oftentimes the codebase will change between a patch being submitted and the time it gets reviewed. Make sure it still applies cleanly and functions as expected. Simply updating a patch is both useful and important! See more on :doc:`writing-code/submitting-patches`.

**Write some documentation**

Django’s documentation is great but it can always be improved. Did you find a typo? Do you think that something should be clarified? Go ahead and suggest a documentation patch! See also the guide on :doc:`writing-documentation`.

.. note::

   The `reports page` contains links to many useful Trac queries, including several that are useful for triaging tickets and reviewing patches as suggested above.

   .. _reports page: https://code.djangoproject.com/wiki/Reports

   .. _CLA: https://www.djangoproject.com/foundation/cla/

   .. _Contributor License Agreement FAQ: https://www.djangoproject.com/foundation/cla/faq/

   .. _unreviewed ticket: https://code.djangoproject.com/query?status=!closed&stage=Unreviewed

Guidelines

============
As a newcomer on a large project, it's easy to experience frustration. Here's some advice to make your work on Django more useful and rewarding.

* **Pick a subject area that you care about, that you are familiar with, or that you want to learn about**

You don't already have to be an expert on the area you want to work on; you become an expert through your ongoing contributions to the code.

* **Analyze tickets' context and history**

Trac isn't an absolute; the context is just as important as the words. When reading Trac, you need to take into account who says things, and when they were said. Support for an idea two years ago doesn't necessarily mean that the idea will still have support. You also need to pay attention to who *hasn't* spoken -- for example, if an experienced contributor hasn't been recently involved in a discussion, then a ticket may not have the support required to get into Django.

* **Start small**

It's easier to get feedback on a little issue than on a big one. See the 'easy pickings'._

* **If you're going to engage in a big task, make sure that your idea has support first**

This means getting someone else to confirm that a bug is real before you fix the issue, and ensuring that there's consensus on a proposed feature before you go implementing it.

* **Be bold! Leave feedback!**

Sometimes it can be scary to put your opinion out to the world and say "this ticket is correct" or "this patch needs work", but it's the only way the project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of any one person. We can't do it without **you**!

* **Err on the side of caution when marking things Ready For Check-in**

If you're really not certain if a ticket is ready, don't mark it as such. Leave a comment instead, letting others know your thoughts. If you're mostly certain, but not completely certain, you might also try asking on IRC to see if someone else can confirm your suspicions.

* **Wait for feedback, and respond to feedback that you receive**
Focus on one or two tickets, see them through from start to finish, and repeat. The shotgun approach of taking on lots of tickets and letting some fall by the wayside ends up doing more harm than good.

* **Be rigorous**

When we say ":pep:`8`, and must have docs and tests", we mean it. If a patch doesn't have docs and tests, there had better be a good reason. Arguments like "I couldn't find any existing tests of this feature" don't carry much weight--while it may be true, that means you have the extra-important job of writing the very first tests for that feature, not that you get a pass from writing tests altogether.

.. _easy pickings: https://code.djangoproject.com/query?status=!closed&easy=1

.. _new-contributors-faq: FAQ

====

1. **This ticket I care about has been ignored for days/weeks/months! What can I do to get it committed?**

First off, it's not personal. Django is entirely developed by volunteers (except the Django fellow), and sometimes folks just don't have time. The best thing to do is to send a gentle reminder to the |django-developers| mailing list asking for review on the ticket, or to bring it up in the `#django-dev` IRC channel.

2. **I'm sure my ticket is absolutely 100% perfect, can I mark it as RFC myself?**

    Short answer: No. It's always better to get another set of eyes on a ticket. If you're having trouble getting that second set of eyes, see question 1, above.

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1.329 spice-server 0.14.2 1.el8_2.1

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1.345 python3-xstatic-angular-fileupload
12.0.4.0 10.el8ost
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1.346 python3-neutronclient 6.14.1
1.20201113231846.a09e824.el8ost
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1.347 libffi 3.1 21.el8

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1.348 lz4 0.0~r131-2.debian

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI) in the Netherlands as a successor of a language called ABC. Guido is Python's principal author, although it includes many contributions from others. The last version released from CWI was Python 1.2. In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI) in Reston, Virginia where he released several versions of the software. Python 1.6 was the last of the versions released by CNRI. In 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. Python 2.0 was the first and only release from BeOpen.com.
Following the release of Python 1.6, and after Guido van Rossum left CNRI to work with commercial software developers, it became clear that the ability to use Python with software available under the GNU Public License (GPL) was very desirable. CNRI and the Free Software Foundation (FSF) interacted to develop enabling wording changes to the Python license. Python 1.6.1 is essentially the same as Python 1.6, with a few minor bug fixes, and with a different license that enables later versions to be GPL-compatible. Python 2.1 is a derivative work of Python 1.6.1, as well as of Python 2.0.

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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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1.357 sysv-init 2.88dsf-59.9.debian
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Init was written by Miquel van Smoorenburg <miquels@cistron.nl>.

This package was first put together by Bruce Perens <Bruce@Pixar.com> from pre-distribution sources. Ian Murdock <imurdock@debian.org> integrated it into the base system maintained it until the end of 1995. Miquel van Smoorenburg <miquels@cistron.nl> implemented Debian support. In version 2.85 the package was split into three (sysvinit, sysv-rc, and initscripts) in order to make room for alternative rc mechanisms.

The upstream source is available at:

Primary-Site: ftp.cistron.nl /pub/people/miquels/software
92K sysvinit-2.86.tar.gz
Alternate-Site: sunsite.unc.edu /pub/Linux/system/daemons/init
92K sysvinit-2.86.tar.gz

Send patches to sysvinit-devel@nongnu.org.
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The of the start-stop-daemon:

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* 
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>, public domain.
This package contains the mechanism for executing the right scripts in the right order at bootup/shutdown time, and when changing runlevels. It works through managing symlinks in /etc/rc?.d

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1.358 libcap-ng 0.7.7-3.debian
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1.361 isns-utils-libs 0.99 1.el8

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 */

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// Variables
// --------------------------

@fa-font-path: "../fonts";
@fa-font-size-base: 14px;
@fa-line-height-base: 1;
//@fa-font-path: "//netdna.bootstrapcdn.com/font-awesome/4.7.0/fonts"; // for referencing Bootstrap CDN font files directly
@fa-css-prefix: fa;
@fa-version: "4.7.0";
@fa-border-color: #eee;
@fa-inverse: #fff;
@fa-li-width: (30em / 14);
@fa-var-500px: "\f26e";
@fa-var-address-book: "\f2b9";
@fa-var-address-book-o: "\f2ba";
@fa-var-address-card: "\f2bb";
@fa-var-address-card-o: "\f2bc";
@fa-var-adjust: "\f042";
@fa-var-adn: "\f170";
@fa-var-align-center: "\f037";
@fa-var-align-justify: "\f039";
@fa-var-align-left: "\f036";
@fa-var-align-right: "\f038";
@fa-var-amazon: "\f270";
@fa-var-ambulance: "\f0f9";
@fa-var-american-sign-language-interpreting: "\f2a3";
@fa-var-anchor: "\f13d";
@fa-var-android: "\f17b";
@fa-var-angellist: "\f209";
@fa-var-angle-double-down: "\f103";
@fa-var-angle-double-left: "\f100";
@fa-var-angle-double-right: "\f101";
@fa-var-angle-double-up: "\f102";
@fa-var-angle-down: "\f107";
@fa-var-angle-left: "\f104";
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3095
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* /opt/cola/permits/1162150220_1620796826.96/0/fontawesome-fonts-4.7.0-6.el8ost.src.rpm-cosi-expand-archive-Sf0Ky3nH/fontawesome-fonts.spec
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$fa-var-drivers-license: "\f2c2";

Found in path(s):
* /opt/cola/permits/1162150220_1620796826.96/0/fontawesome-fonts-4.7.0-6.el8ost.src.rpm-cosi-expand-archive-Sf0Ky3nH/fontawesome-webfont.svg
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 Found in path(s):
* /opt/cola/permits/1162150220_1620796826.96/0/fontawesome-fonts-4.7.0-6.el8ost.src.rpm-cosi-expand-archive-Sf0Ky3nH/fontawesome-4.7.0.zip-cosi-expand-archive-LPMGLFJG/fontawesome-4.7.0/scss/_variables.scss
No license file was found, but licenses were detected in source scan.

 $.@{fa-css-prefix}-drivers-license:before,

Found in path(s):
* /opt/cola/permits/1162150220_1620796826.96/0/fontawesome-fonts-4.7.0-6.el8ost.src.rpm-cosi-expand-archive-Sf0Ky3nH/fontawesome-4.7.0.zip-cosi-expand-archive-LPMGLFJG/fontawesome-4.7.0/less/icons.less
No license file was found, but licenses were detected in source scan.

 .#{${fa-css-prefix}}-drivers-license:before,

Found in path(s):
* /opt/cola/permits/1162150220_1620796826.96/0/fontawesome-fonts-4.7.0-6.el8ost.src.rpm-cosi-expand-archive-Sf0Ky3nH/fontawesome-4.7.0.zip-cosi-expand-archive-LPMGLFJG/fontawesome-4.7.0/scss/_icons.scss

1.363 libnftnl 1.1.5 4.el8

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1.370 python3-xstatic-bootstrap-datepicker
1.3.1.0 12.el8ost
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/* ==============================================================
 * bootstrap-datepicker.js
 * Repo: https://github.com/eternicode/bootstrap-datepicker/
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* /opt/cola/permits/1162148986_1620794056.72/0/python-XStatic-Bootstrap-Datepicker-1.3.1.0-12.el8ost.src.rpm-cosi-expand-archive-y3jsDnFF/XStatic-Bootstrap-Datepicker-1.3.1.0.tar.gz-cosi-expand-archive-TsIdfUDF/XStatic-Bootstrap-Datepicker-1.3.1.0/xstatic/pkg/bootstrap_datepicker/data/bootstrap-datepicker.js
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/*! 
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Mapping:

Metadata-Version: 1.0
Name: XStatic-Bootstrap-Datepicker
Version: 1.3.1.0
Summary: Bootstrap-Datepicker 1.3.1 (XStatic packaging standard)
Home-page: https://github.com/eternicode/bootstrap-datepicker/
Author: Radomir Dopieralski
Author-email: openstack@sheep.art.pl
License: (same as Bootstrap-Datepicker)
Description: XStatic-Bootstrap-Datepicker

Bootstrap-Datepicker JavaScript library packaged for setuptools (easy_install) / pip.

This package is intended to be used by **any** project that needs these files.

It intentionally does **not** provide any extra code except some metadata
**nor** has any extra requirements. You MAY use some minimal support code from
the XStatic base package, if you like.

You can find more info about the xstatic packaging way in the package `XStatic`.

Keywords: bootstrap_datepicker xstatic
Platform: any

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* /opt/cola/permits/1162148986_1620794056.72/0/python-XStatic-Bootstrap-Datepicker-1.3.1.0-12.el8ost.src.rpm-
cosi-expand-archive-y3jsDnFF/XStatic-Bootstrap-Datepicker-1.3.1.0.tar.gz-cosi-expand-archive-TsIdfUDF/XStatic-
Bootstrap-Datepicker-1.3.1.0/xstatic/pkg/bootstrap_datepicker/data/datepicker.css
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cosi-expand-archive-y3jsDnFF/XStatic-Bootstrap-Datepicker-1.3.1.0.tar.gz-cosi-expand-archive-TsIdfUDF/XStatic-
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This option is useful when you wish to copy part of the code of
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4. You may copy and distribute the Library (or a portion or
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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
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therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
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
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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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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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
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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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Jan Holmberg, <jan@artech.net>:
- Memory framework
- HTTP/SSL checkers

Bradley Baetz, <bradley.baetz@optusnet.com.au>:
- MISC checker redesign
- Scheduler framework extension to support child process handling.
- Daemon framework extension to block SIGCHLD to only receive it when its unblocked in the scheduling select loop.

Jeremy Rumpf, <rumpf.6@osu.edu>:
- Added SMTP checker

Chris Caputo, <ccaputo@alt.net>:
Kevin Lindsay, <kevinl@netnation.com>:
- Fixed shadowed declaration reported by -Wshadow.
- Redesigned signal handling.

Nick Couchman, <nick.couchman@seakr.com>:
- Patch for u_threshold and l_threshold support.

Willy Tarreau, <w@1wt.eu>:
- Extended VRRP framework to support floating priority.

1.377 libunistring 0.9.9 3.el8

1.377.1 Available under license:

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1.378 gmp 6.1.2 10.el8

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MySQL Router 8.0

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The implementation was written so as to conform with Netscape's SSL.

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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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MySQL 8.0

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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
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
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Markus Kuhn -- 2007-05-26 (Unicode 5.0)

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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.)

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

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

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

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

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may
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
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modification of the work for the customer's own use and reverse
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You must give prominent notice with each copy of the work that the
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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
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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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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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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.
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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.

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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.

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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.)

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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1.388 pyyaml 3.13
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1.389 python3-cmd2 0.6.8 10.el8ost

1.389.1 Available under license:

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Metadata-Version: 1.1
Name: cmd2
Version: 0.6.8
Summary: Extra features for standard library's cmd module
Home-page: http://packages.python.org/cmd2/
Author: Catherine Devlin
Author-email: catherine.devlin@gmail.com
License: MIT
Description: Enhancements for standard library's cmd module.

Drop-in replacement adds several features for command-prompt tools:

* Searchable command history (commands: "hi", "li", "run")
* Load commands from file, save to file, edit commands in file
* Multi-line commands
* Case-insensitive commands
* Special-character shortcut commands (beyond cmd's "@" and "!")
* Settable environment parameters
* Parsing commands with flags
* > (filename), >> (filename) redirect output to file
* < (filename) gets input from file
* bare >, >>, < redirect to/from paste buffer
* accepts abbreviated commands when unambiguous
* `py` enters interactive Python console
* test apps against sample session transcript (see example/example.py)

Useable without modification anywhere cmd is used; simply import cmd2.Cmd in place of cmd.Cmd.

Running `2to3 <http://docs.python.org/library/2to3.html>` against `cmd2.py`
generates working, Python3-based code.

See docs at http://packages.python.org/cmd2/

Keywords: command prompt console cmd
Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Environment :: Console
Classifier: Operating System :: OS Independent
1.390 python3-ironicclient 3.1.2
1.20201113212718.1220d76.el8ost
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1.391 python3-oslo-service 1.40.2
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1.392 python3-magnumclient 2.16.0
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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bos, Sander
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
Cheloha, Scott
ek, Vtsslav
Coleman, Chris
Corzine, Deven T.
Ryabinkin, Eygene
Sato, Yuichi
Sanchez, Wilfredo
Sanders, Miguel
Sasaki, Kan
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Spradling, Michael
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John
The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro
Blittermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chernoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frederic
Hein, Jochen
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Jerovek, Damir
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Historically, haproxy has been covered by GPL version 2. However, an issue appeared in GPL which will prevent external non-GPL code from being built using the headers provided with haproxy. My long-term goal is to build a core system able to load external modules to support specific application protocols.

Since some protocols are found in rare environments (finance, industry, ...), some of them might be accessible only after signing an NDA. Enforcing GPL on such modules would only prevent them from ever being implemented, while not providing anything useful to ordinary users.

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1.412 dmidecode 3.2 5.el8

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1.422 perl-mime-base64 3.15 396.el8

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---
abstract: 'The RFC 2045 encodings; base64 and quoted-printable'
author:
  - 'Gisle Aas <gisle@activestate.com>'
build_requires:
  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
NAME
MIME::Base64 - Encoding and decoding of base64 strings

SYNOPSIS
use MIME::Base64;

$encoded = encode_base64('Aladdin:open sesame');
$decoded = decode_base64($encoded);

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_base64( $bytes )

encode_base64( $bytes, $eol );

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.

=item decode_base64( $str )

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.

=back

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:

=over 4
=item encode_base64url( $bytes )
=item decode_base64url( $str )

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 $length(decode_base64($str))$, but should be more efficient.

=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):

```perl
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

```perl
use MIME::Base64 qw(encode_base64);
local($/) = undef;  # slurp
print encode_base64(<STDIN>);
```

The same approach as a command line:

```perl
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
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/cola/permits/1162147229_1620791420.16/0/perl-MIME-Base64-3.15-396.el8-1.src.rpm-cosi-expand-archive-QiQ99Hfe/MIME-Base64-3.15.tar.gz-cosi-expand-archive-81OdvfuY/MIME-Base64-3.15/Base64.pm

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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

=begin

=end
make install

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* /opt/cola/permits/1162147229_1620791420.16/0/perl-MIME-Base64-3.15-396.el8-1.src.rpm-cosi-expand-archive-QiQ99Hfe/MIME-Base64-3.15.tar.gz-cosi-expand-archive-81Odvfuy/MIME-Base64-3.15/README
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=head1 NAME

MIME::QuotedPrint - Encoding and decoding of quoted-printable strings

=head1 SYNOPSIS

use MIME::QuotedPrint;

$encoded = encode_qp($decoded);
$decoded = decode_qp($encoded);

=head1 DESCRIPTION

This module provides functions to encode and decode strings into and from the quoted-printable encoding specified in RFC 2045 - I<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

Found in path(s):
* /opt/cola/permits/1162147229_1620791420.16/0/perl-MIME-Base64-3.15-396.el8-1.src.rpm-cosi-expand-archive-QiQ99Hfe/MIME-Base64-3.15.tar.gz-cosi-expand-archive-81OdvfuY/MIME-Base64-3.15/QuotedPrint.pm
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1.423 python3-swiftclient 3.8.1
1.20201116095744.72b90fe.el8ost
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The source package was downloaded from <URL:http://expat.sourceforge.net>.

The original packager is Adam Di Carlo <aph@debian.org>, later Ardo van
Rangelrooij <ardo@debian.org> maintained the package. Now Laszlo Boszormenyi
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1.438 x-text v0.3.2 342b2e1

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1.446 hardlink 1.3 6.el8

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1.447 perl-pod-escapes 1.07 395.el8
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=head1 NAME

Pod::Escapes - for resolving Pod EE<lt>...E<gt> sequences

=head1 SYNOPSIS

use Pod::Escapes qw(e2char);
...la la la, parsing POD, la la la...
$text = e2char($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:

```perl
use Pod::Escapes qw(symbolname symbolname2...);
```

or you can do:

```perl
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

```perl
<lt>name_or_num gt
```

sequence, this returns the string that

it stands for. For example,

```perl
e2char('sol'), e2char('47'),
e2char('0x2F'), and e2char('057')
```

all return "/", because

```perl
<lt>sol gt, <lt>47 gt, <lt>0x2f gt, and <lt>057 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

```perl
<lt>name_or_num gt
```

sequence, this returns the number of

the Unicode character that this stands for. For example,

```perl
e2char('sol'), e2char('47'),
e2char('0x2F'), and e2char('057')
```

all return 47, because

```perl
<lt>sol gt, <lt>47 gt, <lt>0x2f gt, and <lt>057 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

```perl
<lt>I<name> gt
```

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

```perl
<lt>I<name> gt
```

to the Unicode value that each stands for. For example,

```perl
$Name2character_number{'eacute'} is 201, and
$Name2character_number{'eacute'} is 8364.
```

You get the correct Unicode value, regardless of the version of Perl you're using --

which differs from `$%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.

=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<lt>neilb@cpan.orgE<gt>

=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+"&#(\[^;]+);">/) {
      my($name, $value) = ($1,$2);
      next if $name eq 'quot' or $name eq 'apos' or $name eq 'gt';
      $value = hex $1 if $value =~ m/^x([a-fA-F0-9]+)$/is;
      print "ILLEGAL VALUE $value" unless $value =~ m/\d+$/is;
      if($value > 255) {
        push @good, sprintf "   %-10s , chr(%s),
", "$name", $value;
        push @bad, sprintf "   %-10s , $bad,
", "$name", $value;
      } else {
        push @norms, sprintf " %-10s , chr(%s),
", "$name", $value;
      }
    } elsif(m/<!ENT/) {
      print "# Skipping $_";
    }
  }
  close(IN);
}

print @norms;
print "\n ( \$] .= 5.006001 ? (\n";
print @good;
print " ) ; (\n";
print @bad;
print " )\n\n";

_END_

#~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Found in path(s):
* /opt/cola/permits/1162148381_1620790776.69/0/perl-Pod-Escapes-1.07-395.el8-1.src.rpm-cosi-expand-archive-w7Ctp29a/Pod-Escapes-1.07.tar.gz-cosi-expand-archive-5sfDaSSu/Pod-Escapes-1.07/lib/Pod/Escapes.pm
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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'

---

1.448 ima-evm-utils 1.1 5.el8

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1.449 python3-argcomplete 1.9.3 6.el8

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1.450 python3-appdirs 1.4.0 7.el8ost
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1.451 libmodman 2.0.1 17.el8

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

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

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

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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
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b) Use a suitable shared library mechanism for linking with the
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**1.452 libthai 0.1.27 2.el8**

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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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1.453 lcms 2.9 2.el8
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1.454 python3-xstatic-jquery-tablesorter

2.14.5.1 13.el8ost

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/**
 * TableSorter 2.14.5 - Client-side table sorting with ease!
 * @requires jQuery v1.2.6+
 *
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 *
 * @type jQuery
 * @name tablesor
 * @cat Plugins/Tablesorter
 * @author Christian Bach/christian.bach@polyester.se
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* /opt/cola/permits/1162154106_1620790181.78/0/python-XStatic-JQuery-TableSorter-2.14.5.1-13.el8ost.src.rpm-
cosi-expand-archive-RJw1f1n5/python-XStatic-JQuery-TableSorter.spec

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Metadata-Version: 1.0
Name: XStatic-JQuery.TableSorter
Version: 2.14.5.1
Summary: JQuery.TableSorter 2.14.5 (XStatic packaging standard)
Home-page: https://github.com/Mottie/tablesorter
Author: Radomir Dopieralski
Author-email: openstack@sheep.art.pl
License: (same as JQuery.TableSorter)
Description: XStatic-JQuery.TableSorter

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

JQuery.TableSorter JavaScript library packaged for setuptools (easy_install) / pip.

This package is intended to be used by **any** project that needs these files.

It intentionally does **not** provide any extra code except some metadata
**nor** has any extra requirements. You MAY use some minimal support code from
the XStatic base package, if you like.

You can find more info about the xstatic packaging way in the package `XStatic`.

Keywords: jquery_tablesorter xstatic
Platform: any

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* /opt/cola/permits/1162154106_1620790181.78/0/python-XStatic-JQuery-TableSorter-2.14.5.1-13.el8ost.src.rpm-
cosi-expand-archive-RJw1f1n5/XStatic-JQuery.TableSorter-2.14.5.1.tar.gz-cosi-expand-archive-
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cosi-expand-archive-RJw1f1n5/XStatic-JQuery.TableSorter-2.14.5.1.tar.gz-cosi-expand-archive-
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1.455 leveldb 1.20 1.el8+7
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1.456 chardet 3.0.4

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1.460 python3-os-ken 0.4.1

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2.2.0.0 6.el8ost
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* /opt/cola/permits/1162152100_1620792632.3/0/python-XStatic-Angular-Bootstrap-2.2.0.0-6.el8ost.src.rpm-cosi-expand-archive-p8WKp2R7/python-XStatic-Angular-Bootstrap.spec
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/*
 * angular-ui-bootstrap
 * http://angular-ui.github.io/bootstrap/
 *
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Metadata-Version: 1.0
Name: XStatic-Angular-Bootstrap
Version: 2.2.0.0
Summary: Angular-Bootstrap 2.2.0 (XStatic packaging standard)
Home-page: http://angular-ui.github.io/bootstrap/
Author: Rob Cresswell
Author-email: robert.cresswell@outlook.com
License: MIT
Description: XStatic-Angular-Bootstrap

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

Angular-Bootstrap JavaScript library packaged for setuptools (easy_install) / pip.

This package is intended to be used by **any** project that needs these files.

It intentionally does **not** provide any extra code except some metadata
**nor** has any extra requirements. You MAY use some minimal support code from
the XStatic base package, if you like.

You can find more info about the xstatic packaging way in the package `XStatic`.

Maintenance
------------

To release this package you must use the xstatic-release tool.

Keywords: angular_bootstrap xstatic
Platform: any

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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

Found in path(s):
* /opt/cola/permits/1162153251_1620793445.73/0/perl-Text-ParseWords-3.30-395.el8-1.src.rpm-cosi-expand-archive-yhZSZw4N/Text-ParseWords-3.30.tar.gz-cosi-expand-archive-hLAk4bOk/Text-ParseWords-3.30/META.yml
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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: <$_>

$i++;
}

produces:

0: <this>
1: <is>
2: <a test>
3: <of quotewords>
4: <"for>
5: <you>

demonstrating:

=over 4
a simple word

multiple spaces are skipped because of our $delim

use of quotes to include a space in a word

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 `quotewords(\s+, 0, q{this is...})>` with `shellwords(q{this is...})>` is a simpler way to accomplish the same thing.

**SEE ALSO**

`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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  archive-yhZSZw4N/Text-ParseWords-3.30.tar.gz-cosi-expand-archive-hLAk4bOk/Text-ParseWords-
  3.30/lib/Text/ParseWords.pm

=head1 1.468 yajl-ruby 1.4.1

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Version 2.0, January 2004

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

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member of
the PSF.
All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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

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

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

All Python releases are Open Source (see http://www.opensource.org for
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1.474 python3-novaclient 15.1.1
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1.476 paramiko 2.4.2

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ISO C9x compliant stdint.h for Microsoft Visual Studio
Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124

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

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

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

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

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

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

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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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1.488 python3-xstatic-hogan 2.0.0.2 13.el8ost

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Metadata-Version: 1.0
Name: XStatic-Hogan
Version: 2.0.0.2
Summary: Hogan 2.0.0 (XStatic packaging standard)
Home-page: http://twitter.github.io/hogan.js/
Author: Radomir Dopieralski
Author-email: openstack@sheep.art.pl
License: (same as Hogan)
Description: XStatic-Hogan

Hogan JavaScript library packaged for setuptools (easy_install) / pip.

This package is intended to be used by **any** project that needs these files.

It intentionally does **not** provide any extra code except some metadata
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You can find more info about the xstatic packaging way in the package `XStatic`.

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1.490 openstack-cinder 15.3.1 6.el8ost

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1.491 perl-constant 1.33 396.el8

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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, "\n" if DEBUG;

use constant {
    SEC  => 0,
    MIN  => 1,
    HOUR => 2,
    MDAY => 3,
    MON  => 4,
    YEAR => 5,
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 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.

```perl
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 the use statement is finished.

```perl
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.)

```perl
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 \texttt{constant::declared}. If the given constant name does not include a package name, the current package is used.

```perl
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 \texttt{STDIN STDOUT STDERR ARGV ARGVOUT ENV INC SIG} is not allowed anywhere but in package \texttt{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 \texttt{$hash{CONSTANT}} because \texttt{CONSTANT} will be interpreted as a string. Use \texttt{$hash{CONSTANT()}} or \texttt{$hash{+CONSTANT}} to prevent the bareword quoting mechanism from kicking in. Similarly, since the \texttt{<< => >>} operator quotes a bareword immediately to its left, you have to say \texttt{<< CONSTANT() => 'value' >>} (or simply use a comma in place of the big arrow) instead of \texttt{<< CONSTANT => 'value' >>}.

=head1 SEE ALSO

L\texttt{readonly} - Facility for creating read-only scalars, arrays, hashes.

L\texttt{Attribute::Constant} - Make read-only variables via attribute

L\texttt{Scalar::Readonly} - Perl extension to the \texttt{SvREADONLY} scalar flag
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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>F<rootbeer@redcat.com>E<gt>, with help from many other folks.

Multiple constant declarations at once added by Casey West, E<lt>F<casey@geeknest.com>E<gt>.

Documentation mostly rewritten by Ilmari Karonen, E<lt>F<perl@itz.pp.sci.fi>E<gt>.

This program is maintained by the Perl 5 Porters. The CPAN distribution is maintained by S<eacute>bastien Aperghis-Tramoni E<lt>F<sebastien@aperghis.net>E<gt>.

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=cut

Found in path(s):
*/opt/cola/permits/1162152415_1620797304.22/0/perl-constant-1.33-396.el8-1.src.rpm-cosi-expand-archive-DVfxCLiy/constant-1.27.tar.gz-cosi-expand-archive-8Sm1q24U/constant-1.27/lib/constant.pm

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

=begin

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.

=end

---

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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
make 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

AnnoCPAN, annotated CPAN documentation:
http://annocpan.org/dist/constant

CPAN Ratings:
http://cpanratings.perl.org/d/constant

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

---
abstract: 'Perl pragma to declare constants'
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'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: constant
provides:
  constant:
    file: lib/constant.pm
    version: 1.27
resources:
  license: http://dev.perl.org/licenses/
  version: 1.27

Found in path(s):
* /opt/cola/permits/1162152415_1620797304.22/0/perl-constant-1.33-396.el8-1.src.rpm-cosi-expand-archive-DVfxCLiLy/constant-1.27.tar.gz-cosi-expand-archive-8Sm1q24U/constant-1.27/META.yml
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---
1.492 python3-werkzeug 0.14.1 5.el8ost
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To: Jonathan Nieder <jrnieder@gmail.com>  
Subject: Re: XZ utils for Debian  
Date: Sun, 19 Jul 2009 13:28:23 +0300  
Message-Id: <200907191328.23816.lasse.collin@tukaani.org>  

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1.503 python3-os-traits 0.16.0

1.20201113121415.5a477b8.el8ost

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1.508 python3-dogpile-cache 0.6.8 1.el8ost

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1.513 python3-iso8601 0.1.11 9.el8ost

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1.514 debianutils 4.8.1.1

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<xsl:text>Copyright (C) </xsl:text>
<xsl:call-template name="copyright.years">
<xsl:with-param name="years" select="year"/>
</xsl:call-template>
<xsl:text> </xsl:text>
<xsl:value-of select="holder"/>
<xsl:value-of select="$isc.copyright.breakline"/>
<xsl:text>&#10;</xsl:text>
</xsl:for-each>
</xsl:with-param>
</xsl:call-template>
</xsl:variable>
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1.517 python3-futurist 1.9.0
1.20201116093503.25ff8f.el8ost
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1.518 python3-os-win 4.3.3
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1.519 libtirpc 1.1.4 4.el8

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1.520 bash 4.4-5.debian

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1.525 python3-pycparser 2.14 14.el8

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1.526 python3-beautifulsoup 4.6.0 1.el8ost

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Metadata-Version: 1.2
Name: XStatic-JS-Yaml
Version: 3.8.1.0
Summary: JS-Yaml 3.8.1 (XStatic packaging standard)
Home-page: https://github.com/nodeca/js-yaml
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--------------
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Keywords: js_yaml xstatic
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1.529 nmap 7.70 5.el8

1.530 sensible-utils 0.0.9+deb9u1
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This is the Debian GNU/Linux package sensible-utils.

It is an original Debian package, was maintained by
Clint Adams <schizo@debian.org>. It is now maintained by
Anibal Monsalve Salazar <anibal@debian.org>.
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# Contributions to the urllib3 project

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  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
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  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
* SSL fingerprint and alternative hostname verification
* Bugfixes in testsuite

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* Marc Schlaich <marc.schlaich@gmail.com>
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  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>  
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

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  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
* Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.
* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported
* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vendoring

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]
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1.540 python3-webtest 2.0.29 4.el8ost

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* /opt/cola/permits/1162151146_1620791077.7/0/python-webtest-2.0.29-4.el8ost.src.rpm-cosi-expand-archive-
UWaRrefb/WebTest-2.0.29.tar.gz-cosi-expand-archive-TrFtabfR/WebTest-2.0.29/setup.py

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Testing Applications with WebTest

:author: Ian Bicking <ianb@colorstudy.com>
:maintainer: Gael Pasgrimaud <gael@gawel.org>

Status & License

WebTest is an extraction of `paste.fixture.TestApp``, rewriting
portions to use `WebOb <http://docs.webob.org>`_. It is under
active development as part of the Pylons cloud of packages.

Feedback and discussion should take place on the `Pylons discuss list
<https://groups.google.com/forum/?fromgroups#!forum/pylons-discuss>`_, and bugs
should go into the `Github tracker
<https://github.com/Pylons/webtest/issues>`_.

This library is licensed under an `MIT-style license <license.html>`_.

Installation
You can use pip or easy_install to get the latest stable release:

.. code-block:: sh

    $ pip install WebTest
    $ easy_install WebTest

Or if you want the development version:

.. code-block:: sh

    $ pip install https://nodeload.github.com/Pylons/webtest/tar.gz/master

What This Does
==============

WebTest helps you test your WSGI-based web applications. This can be any application that has a WSGI interface, including an application written in a framework that supports WSGI (which includes most actively developed Python web frameworks -- almost anything that even nominally supports WSGI should be testable).

With this you can test your web applications without starting an HTTP server, and without poking into the web framework shortcutting pieces of your application that need to be tested. The tests WebTest runs are entirely equivalent to how a WSGI HTTP server would call an application. By testing the full stack of your application, the WebTest testing model is sometimes called a *functional test*, *integration test*, or *acceptance test* (though the latter two are not particularly good descriptions). This is in contrast to a *unit test* which tests a particular piece of functionality in your application. While complex programming tasks are often suited to unit tests, template logic and simple web programming is often best done with functional tests; and regardless of the presence of unit tests, no testing strategy is complete without high-level tests to ensure the entire programming system works together.

WebTest helps you create tests by providing a convenient interface to run WSGI applications and verify the output.

Quick start
============

The most important object in WebTest is :class:`~webtest.app.TestApp`, the wrapper for WSGI applications. It also allows you to perform HTTP requests on it. To use it, you simply instantiate it with your WSGI application.
If your WSGI application requires any configuration, you must set that up manually in your tests.

Here is a basic application:

```python
>>> def application(environ, start_response):
...     headers = [('Content-Type', 'text/html; charset=utf8'),
...                ('Content-Length', str(len(body)))]
...     start_response('200 OK', headers)
...     return [body]

Wrap it into a :class:`~webtest.app.TestApp`:

```python
>>> from webtest import TestApp
>>> app = TestApp(application)
```

Then you can get the response of a HTTP GET:

```python
>>> resp = app.get('/')
```

And check the results, like response's status:

```python
>>> assert resp.status == '200 OK'
>>> assert resp.status_int == 200
```

Response's headers:

```python
>>> assert resp.content_type == 'text/html'
>>> assert resp.content_length > 0
```

Or response's body:

```python
>>> resp.mustcontain('<html>')</n>>> assert 'form' in resp
```

WebTest can do much more. In particular, it can handle :doc:`forms`.

Contents
========

.. toctree::

    webtest.rst
contributing.rst
changelog.rst

.. include:: license.rst

Found in path(s):
* /opt/cola/permits/1162151146_1620791077.7/0/python-webtest-2.0.29-4.el8ost.src.rpm-cosi-expand-archive-UWaRrefb/WebTest-2.0.29.tar.gz-cosi-expand-archive-TrFtabfR/WebTest-2.0.29/docs/index.rst
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* /opt/cola/permits/1162151146_1620791077.7/0/python-webtest-2.0.29-4.el8ost.src.rpm-cosi-expand-archive-UWaRrefb/WebTest-2.0.29.tar.gz-cosi-expand-archive-TrFtabfR/WebTest-2.0.29/webtest/app.py
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Metadata-Version: 1.1
Name: WebTest
Version: 2.0.29
Summary: Helper to test WSGI applications
Home-page: http://webtest.pythonpaste.org/
Author: Gael Pasgrimaud
Author-email: gael@gawel.org
License: MIT
Description: ========

WebTest

======
This wraps any WSGI application and makes it easy to send test requests to that application, without starting up an HTTP server.

This provides convenient full-stack testing of applications written with any WSGI-compatible framework.

Full docs can be found at https://webtest.readthedocs.io/en/latest/

Keywords: wsgi test unit tests web
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Framework :: Paste
Classifier: Intended Audience :: Developers
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1.541 faraday 0.15.2

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1.542 python3-fasteners 0.14.1 15.el8ost

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1.546 python3-httplib2 0.10.3 4.el8

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1.548 netrc 0.11.0

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1.560 python3-oslo-privsep 1.33.5 1.el8ost

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

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More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridl (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.
1.562 python3-xstatic-angular 1.5.8.0 6.el8ost

1.562.1 Available under license:

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

Metadata-Version: 1.0
Name: XStatic-Angular
Version: 1.5.8.0
Summary: Angular 1.5.8 (XStatic packaging standard)
Home-page: http://angularjs.org
Author: Rob Cresswell
Author-email: robert.cresswell@outlook.com
License: MIT
Description: XStatic-Angular

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

Angular JavaScript library packaged for setuptools (easy_install) / pip.

This package is intended to be used by **any** project that needs these files.

It intentionally does **not** provide any extra code except some metadata
**nor** has any extra requirements. You MAY use some minimal support code from
the XStatic base package, if you like.

You can find more info about the xstatic packaging way in the package `XStatic`.

Keywords: angular xstatic
Platform: any

Found in path(s):
* /opt/cola/permits/1162152667_1620790867.69/0/python-XStatic-Angular-1.5.8.0-6.el8ost.src.rpm-cosi-expand-archive-aZoM5WWY/XStatic-Angular-1.5.8.0.tar.gz-cosi-expand-archive-EGrGj8Dh/XStatic-Angular-1.5.8.0/XStatic_Angular.egg-info/PKG-INFO
* /opt/cola/permits/1162152667_1620790867.69/0/python-XStatic-Angular-1.5.8.0-6.el8ost.src.rpm-cosi-expand-archive-aZoM5WWY/XStatic-Angular-1.5.8.0.tar.gz-cosi-expand-archive-EGrGj8Dh/XStatic-Angular-1.5.8.0/PKG-INFO

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

/!
* jQuery JavaScript Library v3.1.0
* https://jquery.com/
* Includes Sizzle.js
* https://sizzlejs.com/
*
"$sce" is a service that provides Strict Contextual Escaping services to AngularJS.

# Strict Contextual Escaping

Strict Contextual Escaping (SCE) is a mode in which AngularJS requires bindings in certain contexts to result in a value that is marked as safe to use for that context. One example of such a context is binding arbitrary html controlled by the user via `ng-bind-html`. We refer to these contexts as privileged or SCE contexts.

As of version 1.2, Angular ships with SCE enabled by default.

Note: When enabled (the default), IE<11 in quirks mode is not supported. In this mode, IE<11 allow one to execute arbitrary javascript by the use of the expression() syntax. Refer <http://blogs.msdn.com/b/ie/archive/2008/10/16/ending-expressions.aspx> to learn more about them. You can ensure your document is in standards mode and not quirks mode by adding `<!doctype html>` to the top of your HTML document.

SCE assists in writing code in a way that (a) is secure by default and (b) makes auditing for security vulnerabilities such as XSS, clickjacking, etc. a lot easier.

Here's an example of a binding in a privileged context:

```html
<input ng-model="userHtml" aria-label="User input">
<div ng-bind-html="userHtml"></div>
```

Notice that `ng-bind-html` is bound to `userHtml` controlled by the user. With SCE disabled, this application allows the user to render arbitrary HTML into the DIV. In a more realistic example, one may be rendering user comments, blog articles, etc. via
* bindings. (HTML is just one example of a context where rendering user controlled input creates security vulnerabilities.)

* For the case of HTML, you might use a library, either on the client side, or on the server side, to sanitize unsafe HTML before binding to the value and rendering it in the document.

* How would you ensure that every place that used these types of bindings was bound to a value that was sanitized by your library (or returned as safe for rendering by your server?) How can you ensure that you didn't accidentally delete the line that sanitized the value, or renamed some properties/fields and forgot to update the binding to the sanitized value?

* To be secure by default, you want to ensure that any such bindings are disallowed unless you can determine that something explicitly says it's safe to use a value for binding in that context. You can then audit your code (a simple grep would do) to ensure that this is only done for those values that you can easily tell are safe - because they were received from your server, sanitized by your library, etc. You can organize your codebase to help with this - perhaps allowing only the files in a specific directory to do this. Ensuring that the internal API exposed by that code doesn't markup arbitrary values as safe then becomes a more manageable task.

* In the case of AngularJS' SCE service, one uses `@link ng.$sce#trustAs $sce.trustAs` *(and shorthand methods such as `@link ng.$sce#trustAsHtml $sce.trustAsHtml`, etc.) to* obtain values that will be accepted by SCE / privileged contexts.

* ## How does it work?

* In privileged contexts, directives and code will bind to the result of `@link ng.$sce#getTrusted $sce.getTrusted(context, value)` rather than to the value directly. Directives use `@link ng.$sce#parseAs $sce.parseAs` rather than `Sparse` to watch attribute bindings, which performs the `@link ng.$sce#getTrusted $sce.getTrusted` behind the scenes on non-constant literals.

* As an example, `@link ng.directive:ngBindHtml ngBindHtml` uses `@link ng.$sce#parseAsHtml $sce.parseAsHtml(binding expression)`. Here's the actual code (slightly simplified):

```javascript
var ngBindHtmlDirective = ['$sce', function($sce) {
  return function(scope, element, attr) {
    scope.$watch($sce.parseAsHtml(attr.ngBindHtml), function(value) {
      element.html(value || '');
    });
  };
}];
```

* ## Impact on loading templates

* This applies both to the `@link ng.directive:ngInclude `ng-include` directive as well as
* `templateUrl`’s specified by [@link guide/directive directives].

* By default, Angular only loads templates from the same domain and protocol as the application document. This is done by calling [@link ng.$sce#getTrustedResourceUrl $sce.getTrustedResourceUrl] on the template URL. To load templates from other domains and/or protocols, you may either [@link ng.$sceDelegateProvider#resourceUrlWhitelist whitelist] them or [@link ng.$sce#trustAsResourceUrl wrap it] into a trusted value.

* *Please note*:
  * The browser’s [Same Origin Policy](https://code.google.com/p/browsersec/wiki/Part2#Same-origin_policy_for_XMLHttpRequest) and [Cross-Origin Resource Sharing (CORS)](http://www.w3.org/TR/cors/) policy apply in addition to this and may further restrict whether the template is successfully loaded. This means that without the right CORS policy, loading templates from a different domain won’t work on all browsers. Also, loading templates from `file://` URL does not work on some browsers.

* *## This feels like too much overhead*

* It’s important to remember that SCE only applies to interpolation expressions.

* If your expressions are constant literals, they’re automatically trusted and you don’t need to call `$sce.trustAs` on them (remember to include the `ngSanitize` module) (e.g. `<div ng-bind-html="&lt;b&gt;implicitly trusted&lt;/b&gt;"/&gt;&lt;/div&gt;") just works.

* Additionally, `[a[href]` and `img[src]` automatically sanitize their URLs and do not pass them through [@link ng.$sce#getTrusted $sce.getTrusted]. SCE doesn’t play a role here.

* The included [@link ng.$sceDelegate $sceDelegate] comes with sane defaults to allow you to load templates in ‘ng-include’ from your application’s domain without having to even know about SCE. It blocks loading templates from other domains or loading templates over http from an https served document. You can change these by setting your own custom [@link ng.$sceDelegateProvider#resourceUrlWhitelist whitelists] and [@link ng.$sceDelegateProvider#resourceUrlBlacklist blacklists] for matching such URLs.

* *## What trusted context types are supported?*

* | Context        | Notes          |
* |----------------|----------------|
* | `$sce.HTML`    | For HTML that’s safe to source into the application. The [@link directive:ngBindHtml ngBindHtml] directive uses this context for bindings. If an unsafe value is encountered and the [@link ngSanitize $sanitize] module is present this will sanitize the value instead of throwing an error. |
* | `$sce.CSS` | For CSS that's safe to source into the application. Currently unused. Feel free to use it in your own directives. |
* | `$sce.URL` | For URLs that are safe to follow as links. Currently unused (`<a href=` and `<img src=` sanitize their urls and don't constitute an SCE context. |
* | `$sce.RESOURCE_URL` | For URLs that are not only safe to follow as links, but whose contents are also safe to include in your application. Examples include `ng-include`, `src` / `ngSrc` bindings for tags other than `IMG` (e.g. `IFRAME`, `OBJECT`, etc.) Note that `$sce.RESOURCE_URL` makes a stronger statement about the URL than `$sce.URL` does and therefore contexts requiring values trusted for `$sce.RESOURCE_URL` can be used anywhere that values trusted for `$sce.URL` are required. |
* | `$sce.JS` | For JavaScript that is safe to execute in your application's context. Currently unused. Feel free to use it in your own directives. |

*## Format of items in [@link ng.$sceDelegateProvider#resourceUrlWhitelist resourceUrlWhitelist]/{@link ng.$sceDelegateProvider#resourceUrlBlacklist Blacklist} <a name="resourceUrlPatternItem"></a>*

Each element in these arrays must be one of the following:

* - ` self`**
  * - The special **string**, `self`, can be used to match against all URLs of the **same**
    * - domain** as the application document using the **same** protocol**.
  * - **String** (except the special value ` self`)**
  * - The string is matched against the full *normalized / absolute URL* of the resource
    * - being tested (substring matches are not good enough.)
  * - There are exactly **two wildcard sequences** `- *` and `**`. All other characters
    * - match themselves.
  * - `*`: matches zero or more occurrences of any character other than one of the following 6
    * - characters: `,`, `;`, `/`, `.` , `?` , `&` and `;`. It's a useful wildcard for use
      * in a whitelist.
  * - `**`: matches zero or more occurrences of *any* character. As such, it's not
    * - appropriate for use in a scheme, domain, etc. as it would match too much. (e.g.
    * - http://**.example.com/ would match http://evil.com/?ignore=.example.com/ and that might
    * - not have been the intention.) Its usage at the very end of the path is ok. (e.g.
    * - http://foo.example.com/templates/**).
  * - **RegExp** (*see caveat below*)
    * - *Caveat*: While regular expressions are powerful and offer great flexibility, their syntax
      * - (and all the inevitable escaping) makes them *harder to maintain*. It's easy to
        * - accidentally introduce a bug when one updates a complex expression (imho, all regexes should
          * - have good test coverage). For instance, the use of ` `. in the regex is correct only in a
            * - small number of cases. A ` ` character in the regex used when matching the scheme or a
              * - subdomain could be matched against a ` `. or literal ` ` that was likely not intended. It
                * - is highly recommended to use the string patterns and only fall back to regular expressions
                  * - as a last resort.
    * - The regular expression must be an instance of RegExp (i.e. not a string.) It is
      * - matched against the **entire** normalized / absolute URL of the resource being tested
        * - (even when the RegExp did not have the `^` and `$` codes.) In addition, any flags
          * - present on the RegExp (such as multiline, global, ignoreCase) are ignored.
    * - If you are generating your JavaScript from some other templating engine (not
      * - recommended, e.g. in issue [#4006](https://github.com/angular/angular.js/issues/4006)),

---

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* remember to escape your regular expression (and be aware that you might need more than
* one level of escaping depending on your templating engine and the way you interpolated
* the value.) Do make use of your platform's escaping mechanism as it might be good
* enough before coding your own. E.g. Ruby has
* [Regexp.escape(str)](http://www.ruby-doc.org/core-2.0.0/Regexp.html#method-c-escape)
* and Python has [re.escape](http://docs.python.org/library/re.html#re.escape).
* Javascript lacks a similar built in function for escaping. Take a look at Google
* Closure library's [goog.string.regExpEscape(s)]
* http://docs.closure-library.googlecode.com/git/closure_goog_string_string.js.source.html#line962).
* 
* Refer [@link ng.$sceDelegateProvider $sceDelegateProvider] for an example.
* 
* ## Show me an example using SCE.
* 
* <example module="mySceApp" deps="angular-sanitize.js">
* <file name="index.html">
* <div ng-controller="AppController as myCtrl">
*   <i ng-bind-html="myCtrl.explicitlyTrustedHtml" id="explicitlyTrustedHtml"></i><br><br>
*   <b>User comments</b><br>
*   By default, HTML that isn't explicitly trusted (e.g. Alice's comment) is sanitized when
*   $sanitize is available. If $sanitize isn't available, this results in an error instead of an
*   exploit.
*   <div class="well">
*     <div ng-repeat="userComment in myCtrl.userComments">
*       <b>{{userComment.name}}</b>:
*       <span ng-bind-html="userComment.htmlComment" class="htmlComment"></span>
*       <br>
*     </div>
*   </div>
* </div>
* </file>
* 
* <file name="script.js">
* angular.module('mySceApp', ['ngSanitize'])
* .controller('AppController', ['$http', '$templateCache', '$sce',
*   function($http, $templateCache, $sce) {
*     var self = this;
*     $http.get("test_data.json", {cache: $templateCache}).success(function(userComments) {
*       self.userComments = userComments;
*     });
*     self.explicitlyTrustedHtml = $sce.trustAsHtml(
*       '<span onmouseover="this.textContent="Explicitly trusted HTML bypasses exploit over this text."">
*         'Sanitization.&quot;_hover_over_me.html');
*   })];
* </file>
* 
* <file name="test_data.json">
* [
* { "name": "Alice",
*   "htmlComment":
*     "<span onmouseover='this.textContent="PWN3D!"'>Is <i>anyone</i> reading this?</span>"
* },
* { "name": "Bob",
*   "htmlComment": "<i>Yes!</i> Am I the only other one?"
* }
* </file>
*
* <file name="protractor.js" type="protractor">
*   describe('SCE doc demo', function() {
*     it('should sanitize untrusted values', function() {
*       expect(element.all(by.css('.htmlComment')).first().getInnerHtml())
*         .toBe('<span>Is <i>anyone</i> reading this?</span>);
*     });
*
*     it('should NOT sanitize explicitly trusted values', function() {
*       expect(element(by.id('explicitlyTrustedHtml')).getInnerHtml()).toBe(
*         '<span onmouseover="this.textContent="Explicitly trusted HTML bypasses '&quot;+sanitization.&quot;">Hover over this text.</span>');
*     });
*   });
* </file>
* </example>
*
* ## Can I disable SCE completely?
*
* Yes, you can. However, this is strongly discouraged. SCE gives you a lot of security benefits
* for little coding overhead. It will be much harder to take an SCE disabled application and
* either secure it on your own or enable SCE at a later stage. It might make sense to disable SCE
* for cases where you have a lot of existing code that was written before SCE was introduced and
* you're migrating them a module at a time.
*
* That said, here's how you can completely disable SCE:
*```
* angular.module('myAppWithSceDisabledmyApp', []).config(function($sceProvider) {
*   // Completely disable SCE. For demonstration purposes only!
*   // Do not use in new projects.
*   $sceProvider.enabled(false);
* });
*```
*/
/**
 * @license AngularJS v1.5.8
 * (c) 2010-2016 Google, Inc. http://angularjs.org
 * License: MIT
 */

/**
 * @ngdoc module
 * @name ngMessages
 * @description
 *
 * The `ngMessages` module provides enhanced support for displaying messages within templates
 * (typically within forms or when rendering message objects that return key/value data).
 * Instead of relying on JavaScript code and/or complex ng-if statements within your form template to
 * show and hide error messages specific to the state of an input field, the `ngMessages` and
 * `ngMessage` directives are designed to handle the complexity, inheritance and priority
 * sequencing based on the order of how the messages are defined in the template.
 *
 * Currently, the ngMessages module only contains the code for the `ngMessages`, `ngMessagesInclude`
 * `ngMessage` and `ngMessageExp` directives.
 *
 * # Usage
 * The `ngMessages` directive allows keys in a key/value collection to be associated with a child element
 * (or `message`) that will show or hide based on the truthiness of that key's value in the collection. A common use
 * case for `ngMessages` is to display error messages for inputs using the `Serror` object exposed by the
 * [link ngModel ngModel] directive.
 *
 * The child elements of the `ngMessages` directive are matched to the collection keys by a `ngMessage` or
 * `ngMessageExp` directive. The value of these attributes must match a key in the collection that is provided by
 * the `ngMessages` directive.
 *
 * Consider the following example, which illustrates a typical use case of `ngMessages`. Within the form `myForm` we
 * have a text input named `myField` which is bound to the scope variable `field` using the [link ngModel ngModel]
 * directive.
 *
 * The `myField` field is a required input of type `email` with a maximum length of 15 characters.
 *
```html
<form name="myForm">
  <label>
    Enter text:
  </label>
  <input ng-model="field" type="email" ng-max-length="15">
  <ng-message ng-messages="field">
    Please enter a valid email address.
  </ng-message>
</form>
```

*/
In order to show error messages corresponding to `myField` we first create an element with an `ngMessages` attribute set to the `error` object owned by the `myField` input in our `myForm` form.

Within this element we then create separate elements for each of the possible errors that `myField` could have.
The `ngMessage` attribute is used to declare which element(s) will appear for which error - for example, setting `ng-message="required"` specifies that this particular element should be displayed when there is no value present for the required field `myField` (because the key `required` will be `true` in the object `myForm.myField.$error`).

### Message order

By default, `ngMessages` will only display one message for a particular key/value collection at any time. If more than one message (or error) key is currently true, then which message is shown is determined by the order of messages in the HTML template code (messages declared first are prioritised). This mechanism means the developer does not have to prioritise messages using custom JavaScript code.

Given the following error object for our example (which informs us that the field `myField` currently has both the `required` and `email` errors):

```
```javascript
myField.$error = { required: true, email: true, maxlength: false };
```

The `required` message will be displayed to the user since it appears before the `email` message in the DOM.
Once the user types a single character, the `required` message will disappear (since the field now has a value) but the `email` message will be visible because it is still applicable.

### Displaying multiple messages at the same time

While `ngMessages` will by default only display one error element at a time, the `ng-messages-multiple` attribute can be applied to the `ngMessages` container element to cause it to display all applicable error messages at once:

```html
```
## Reusing and Overriding Messages

In addition to prioritization, ngMessages also allows for including messages from a remote or an inline template. This allows for generic collection of messages to be reused across multiple parts of an application.

```html
<!-- a generic template of error messages known as "my-custom-messages" -->
<script type="text/ng-template" id="my-custom-messages">
  <div ng-message="required">This field is required</div>
  <div ng-message="minlength">This field is too short</div>
</script>

<form name="myForm">
  <label>
    Email address
    <input type="email" id="email" name="myEmail" ng-model="email" minlength="5" required />
  </label>
  <!-- any ng-message elements that appear BEFORE the ng-messages-include will override the messages present in the ng-messages-include template -->
  <div ng-messages="myForm.myEmail.$error" role="alert">
    <!-- this required message has overridden the template message -->
    <div ng-message="required">You did not enter your email address</div>
  </div>
</form>
```

However, including generic messages may not be useful enough to match all input fields, therefore, `ngMessages` provides the ability to override messages defined in the remote template by redefining them within the directive container.

```html
<!-- a generic template of error messages known as "error-messages" -->
<script type="text/ng-template" id="error-messages">
  <div ng-message="required">This field is required</div>
  <div ng-message="minlength">This field is too short</div>
</script>

<div ng-messages="myForm.myField.$error" role="alert">
  <div ng-messages-include="error-messages"></div>
</div>
```

However, including generic messages may not be useful enough to match all input fields, therefore, `ngMessages` provides the ability to override messages defined in the remote template by redefining them within the directive container.

```html
<!-- a generic template of error messages known as "my-custom-messages" -->
<script type="text/ng-template" id="my-custom-messages">
  <div ng-message="required">This field is required</div>
  <div ng-message="minlength">This field is too short</div>
</script>

<form name="myForm">
  <label>
    Email address
    <input type="email" id="email" name="myEmail" ng-model="email" minlength="5" required />
  </label>
  <!-- any ng-message elements that appear BEFORE the ng-messages-include will override the messages present in the ng-messages-include template -->
  <div ng-messages="myForm.myEmail.$error" role="alert">
    <!-- this required message has overridden the template message -->
    <div ng-message="required">You did not enter your email address</div>
  </div>
</form>
```
In the example HTML code above the message that is set on required will override the corresponding required message defined within the remote template. Therefore, with particular input fields (such as email addresses, date fields, autocomplete inputs, etc...), specialized error messages can be applied while more generic messages can be used to handle other, more general input errors.

## Dynamic Messaging

ngMessages also supports using expressions to dynamically change key values. Using arrays and repeaters to list messages is also supported. This means that the code below will be able to fully adapt itself and display the appropriate message when any of the expression data changes:

```html
<form name="myForm">
  <label>
    Email address
    <input type="email"
           name="myEmail"
           ng-model="email"
           minlength="5"
           required />
  </label>
  <div ng-messages="myForm.myEmail.$error" role="alert">
    <div ng-message="required">You did not enter your email address</div>
    <div ng-repeat="errorMessage in errorMessages">
      <!-- use ng-message-exp for a message whose key is given by an expression -->
      <div ng-message-exp="errorMessage.type">{{ errorMessage.text }}</div>
    </div>
  </div>
</form>
```

The `errorMessage.type` expression can be a string value or it can be an array so that multiple errors can be associated with a single error message:
Feel free to use other structural directives such as ng-if and ng-switch to further control what messages are active and when. Be careful, if you place ng-message on the same element as these structural directives, Angular may not be able to determine if a message is active or not. Therefore it is best to place the ng-message on a child element of the structural directive.

```html
<div ng-messages="myForm.myEmail.$error" role="alert">
  <div ng-if="showRequiredError">
    <div ng-message="required">Please enter something</div>
  </div>
</div>
```

## Animations
If the `ngAnimate` module is active within the application then the `ngMessages`, `ngMessage` and `ngMessageExp` directives will trigger animations whenever any messages are added and removed from the DOM by the `ngMessages` directive.

Whenever the `ngMessages` directive contains one or more visible messages then the `.ng-active` CSS class will be added to the element. The `.ng-inactive` CSS class will be applied when there are no messages present. Therefore, CSS transitions and keyframes as well as JavaScript animations can hook into the animations whenever these classes are added/removed.

Let's say that our HTML code for our messages container looks like so:

```html
<div ng-messages="myMessages" class="my-messages" role="alert">
  <div ng-message="alert" class="some-message">...</div>
  <div ng-message="fail" class="some-message">...</div>
</div>
```

Then the CSS animation code for the message container looks like so:

```css

/* Add your CSS styles here */
```
* * * css
* .my-messages {
*   transition:1s linear all;
* }
* .my-messages.ng-active {
*   // messages are visible
* }
* .my-messages.ng-inactive {
*   // messages are hidden
* }
* * *

* Whenever an inner message is attached (becomes visible) or removed (becomes hidden) then the enter
* and leave animation is triggered for each particular element bound to the `ngMessage` directive.
 *
* Therefore, the CSS code for the inner messages looks like so:
*
* * * css
* .some-message {
*   transition:1s linear all;
* }
*
* .some-message.ng-enter {}
* .some-message.ng-enter.ng-enter-active {}
*
* .some-message.ng-leave {}
* .some-message.ng-leave.ng-leave-active {}
* * *

* [@link ngAnimate Click here] to learn how to use JavaScript animations or to learn more about ngAnimate.
* */

Found in path(s):
* /opt/cola/permits/1162152667_1620790867.69/0/python-XStatic-Angular-1.5.8.0-6.el8ost.src.rpm-cosi-expand-archive-aZoM5WWY/XStatic-Angular-1.5.8.0.tar.gz-cosi-expand-archive-EGrGj8Dh/XStatic-Angular-1.5.8.0/xstatic/pkg/angular/data/angular-messages.js
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1162152667_1620790867.69/0/python-XStatic-Angular-1.5.8.0-6.el8ost.src.rpm-cosi-expand-archive-aZoM5WWY/python-XStatic-Angular.spec
No license file was found, but licenses were detected in source scan.

/**
* @license AngularJS v1.5.8
* (c) 2010-2016 Google, Inc. http://angularjs.org
`$sce` is a service that provides Strict Contextual Escaping services to AngularJS.

Strict Contextual Escaping (SCE) is a mode in which AngularJS requires bindings in certain contexts to result in a value that is marked as safe to use for that context. One example of such a context is binding arbitrary HTML controlled by the user via `ng-bind-html`. We refer to these contexts as privileged or SCE contexts.

As of version 1.2, Angular ships with SCE enabled by default.

Note: When enabled (the default), IE<11 in quirks mode is not supported. In this mode, IE<11 allows one to execute arbitrary JavaScript by the use of the expression() syntax. Refer to http://blogs.msdn.com/b/ie/archive/2008/10/16/ending-expressions.aspx to learn more about them.

You can ensure your document is in standards mode and not quirks mode by adding `<!doctype html>` to the top of your HTML document.

SCE assists in writing code in a way that (a) is secure by default and (b) makes auditing for security vulnerabilities such as XSS, clickjacking, etc., a lot easier.

Here's an example of a binding in a privileged context:

```html
<input ng-model="userHtml" aria-label="User input">
<div ng-bind-html="userHtml"></div>
```

Notice that `ng-bind-html` is bound to `userHtml` controlled by the user. With SCE disabled, this application allows the user to render arbitrary HTML into the DIV.

In a more realistic example, one may be rendering user comments, blog articles, etc., via bindings. (HTML is just one example of a context where rendering user-controlled input creates security vulnerabilities.)

For the case of HTML, you might use a library, either on the client side, or on the server side, to sanitize unsafe HTML before binding to the value and rendering it in the document.

How would you ensure that every place that used these types of bindings was bound to a value that was sanitized by your library (or returned as safe for rendering by your server?) How can you ensure that you didn't accidentally delete the line that sanitized the value, or renamed some
* properties/fields and forgot to update the binding to the sanitized value?
*
* To be secure by default, you want to ensure that any such bindings are disallowed unless you can
* determine that something explicitly says it's safe to use a value for binding in that
* context. You can then audit your code (a simple grep would do) to ensure that this is only done
* for those values that you can easily tell are safe - because they were received from your server,
* sanitized by your library, etc. You can organize your codebase to help with this - perhaps
* allowing only the files in a specific directory to do this. Ensuring that the internal API
* exposed by that code doesn't markup arbitrary values as safe then becomes a more manageable task.
*
* In the case of AngularJS' SCE service, one uses [@link ng.$sce#trustAs $sce.trustAs]
* (and shorthand methods such as [@link ng.$sce#trustAsHtml $sce.trustAsHtml], etc.) to
* obtain values that will be accepted by SCE / privileged contexts.
*
* ## How does it work?
*
* In privileged contexts, directives and code will bind to the result of [@link ng.$sce#getTrusted
* $sce.getTrusted(context, value)] rather than to the value directly. Directives use [@link
* ng.$sce#parseAs $sce.parseAs] rather than 'Sparse' to watch attribute bindings, which performs the
* [@link ng.$sce#getTrusted $sce.getTrusted] behind the scenes on non-constant literals.
*
* As an example, [@link ng.directive:ngBindHtml `ngBindHtml`] uses [@link
* ng.$sce#parseAsHtml $sce.parseAsHtml(binding expression)]. Here's the actual code (slightly
* simplified):
*
* ```
* var ngBindHtmlDirective = ['$sce', function($sce) {
*   return function(scope, element, attr) {
*     scope.$watch($sce.parseAsHtml(attr.ngBindHtml), function(value) {
*       element.html(value || '');
*     });
*   };
* }];
* ```
*
* ## Impact on loading templates
*
* This applies both to the [@link ng.directive:ngInclude `ng-include`] directive as well as
* templateUrl's specified by [@link guide/directive directives].
*
* By default, Angular only loads templates from the same domain and protocol as the application
* document. This is done by calling [@link ng.$sce#getTrustedResourceUrl
* $sce.getTrustedResourceUrl] on the template URL. To load templates from other domains and/or
* protocols, you may either [@link ng.$sceDelegateProvider#resourceUrlWhitelist whitelist
* them] or [@link ng.$sce#trustAsResourceUrl wrap it] into a trusted value.
*
* *Please note*:
* The browser's
* [Same Origin Policy](https://code.google.com/p/browsersec/wiki/Part2#Same-origin_policy_for_XMLHttpRequest)
* and [Cross-Origin Resource Sharing (CORS)](http://www.w3.org/TR/cors/)
* policy apply in addition to this and may further restrict whether the template is successfully
* loaded. This means that without the right CORS policy, loading templates from a different domain
* won't work on all browsers. Also, loading templates from `file://` URL does not work on some
* browsers.
*
* ## This feels like too much overhead
*
* It's important to remember that SCE only applies to interpolation expressions.
*
* If your expressions are constant literals, they're automatically trusted and you don't need to
* call `$sce.trustAs` on them (remember to include the `ngSanitize` module) (e.g.
* `<div ng-bind-html=""b"implicitely trusted()"></div>`) just works.
*
* Additionally, `a[href]` and `img[src]` automatically sanitize their URLs and do not pass them
* through `{@link ng.$sce#$getTrusted getTrusted}. SCE doesn't play a role here.
*
* The included `{@link ng.$sceDelegate $sceDelegate}` comes with sane defaults to allow you to load
* templates in `ng-include` from your application's domain without having to even know about SCE.
* It blocks loading templates from other domains or loading templates over http from an https
* served document. You can change these by setting your own custom `{@link
* ng.$sceDelegateProvider#$resourceUrlWhitelist whitelists}` and `{@link
* ng.$sceDelegateProvider#$resourceUrlBlacklist blacklists}` for matching such URLs.
*
* This significantly reduces the overhead. It is far easier to pay the small overhead and have an
* application that's secure and can be audited to verify that with much more ease than bolting
* security onto an application later.
*
* <a name="contexts"></a>
* ## What trusted context types are supported?
*
<table>
<thead>
<tr>
<th>Context</th>
<th>Notes</th>
</tr>
</thead>
</table>
| `$sce.HTML`         | For HTML that's safe to source into the application. The `{@link ng.directive:ngBindHtml
* ngBindHtml}` directive uses this context for bindings. If an unsafe value is encountered and the `{@link
* ngSanitize $sanitize}` module is present this will sanitize the value instead of throwing an error. |
| `$sce.CSS`          | For CSS that's safe to source into the application. Currently unused. Feel free to use it in your
* own directives. |
| `$sce.URL`          | For URLs that are safe to follow as links. Currently unused (`<a href=` and `<img src=`
* sanitize their urls and don't constitute an SCE context. |
| `$sce.RESOURCE_URL` | For URLs that are not only safe to follow as links, but whose contents are also safe to
* include in your application. Examples include `ng-include`, `<script>` bindings for tags other than `<img>` (e.g.
* `<IFRAME`, `<OBJECT`, etc.) `<br>`Note that `$sce.RESOURCE_URL` makes a stronger statement about the
* URL than `$sce.URL` does and therefore contexts requiring values trusted for `$sce.RESOURCE_URL` can be
* used anywhere that values trusted for `$sce.URL` are required. |
* | `$sce.JS` | For JavaScript that is safe to execute in your application's context. Currently unused. Feel free to use it in your own directives. |

* ## Format of items in [ng.$sceDelegateProvider#resourceUrlWhitelist resourceUrlWhitelist]/[ng.$sceDelegateProvider#resourceUrlBlacklist Blacklist] <a name="resourceUrlPatternItem"/>

* Each element in these arrays must be one of the following:

* - **self**
  - The special **string**, `"self"`, can be used to match against all URLs of the **same domain** as the application document using the **same protocol**.
  - **String** (except the special value `"self"`) - The string is matched against the full *normalized / absolute URL* of the resource being tested (substring matches are not good enough.)
  - - There are exactly **two wildcard sequences** `*` and `**`. All other characters match themselves.
  - - `*` matches zero or more occurrences of any character other than one of the following 6 characters: `:` `/` `.` `?` `&` `;`. It's a useful wildcard for use in a whitelist.
  - - `**` matches zero or more occurrences of *any* character. As such, it's not appropriate for use in a scheme, domain, etc. as it would match too much. (e.g. http://**.example.com/ would match http://evil.com/?ignore=.example.com/ and that might not have been the intention.) Its usage at the very end of the path is ok. (e.g. http://foo.example.com/templates/**).
  - - **RegExp** (*see caveat below*) - *Caveat*: While regular expressions are powerful and offer great flexibility, their syntax (and all the inevitable escaping) makes them *harder to maintain*. It's easy to accidentally introduce a bug when one updates a complex expression (imho, all regexes should have good test coverage). For instance, the use of `.` in the regex is correct only in a small number of cases. A `.` character in the regex used when matching the scheme or a subdomain could be matched against a `:` or literal `.` that was likely not intended. It is highly recommended to use the string patterns and only fall back to regular expressions as a last resort.
  - - The regular expression must be an instance of RegExp (i.e. not a string.) It is matched against the **entire** *normalized / absolute URL* of the resource being tested (even when the RegExp did not have the `^` and `$` codes.) In addition, any flags present on the RegExp (such as multiline, global, ignoreCase) are ignored.
  - - If you are generating your JavaScript from some other templating engine (not recommended, e.g. in issue [#4006](https://github.com/angular/angular.js/issues/4006)), remember to escape your regular expression (and be aware that you might need more than one level of escaping depending on your templating engine and the way you interpolated the value.) Do make use of your platform's escaping mechanism as it might be good enough before coding your own. E.g. Ruby has [Regexp.escape(str)](http://www.ruby-doc.org/core-2.0.0/Regexp.html#method-c-escape) and Python has [re.escape](http://docs.python.org/library/re.html#re.escape).
  - Javascript lacks a similar built in function for escaping. Take a look at Google Closure library's [goog.string.regExpEscape(s)](http://docs.closure-library.googlecode.com/git/closure_goog_string_string.js.source.html#line962).
Refer [link ng.$sceDelegateProvider $sceDelegateProvider](#) for an example.

## Show me an example using SCE.

```
<example module="mySceApp" deps="angular-sanitize.js">
  <file name="index.html">
    <div ng-controller="AppController as myCtrl">
      <i ng-bind-html="myCtrl.explicitlyTrustedHtml" id="explicitlyTrustedHtml"></i><br><br>
      <b>User comments</b><br>
      By default, HTML that isn't explicitly trusted (e.g. Alice's comment) is sanitized when
      $sanitize is available. If $sanitize isn't available, this results in an error instead of an
      exploit.
    </div>
  </file>
  <file name="script.js">
    angular.module('mySceApp', ['ngSanitize'])
    .controller('AppController', ['$http', '$templateCache', '$sce',
      function($http, $templateCache, $sce) {
        var self = this;
        $http.get("test_data.json", {cache: $templateCache}).success(function(userComments) {
          self.userComments = userComments;
        });
        self.explicitlyTrustedHtml = $sce.trustAsHtml(
          '<span onmouseover="this.textContent="PWN3D!"">Hover over this text.</span>'
        );
      }]);
  </file>

  <file name="test_data.json">
    [
      { "name": "Alice", "htmlComment": "<span onmouseover="this.textContent="PWN3D!"">Is \<i\> anyone</i> reading this?</span>" },
      { "name": "Bob", "htmlComment": "\<i\> Yes!</i> Am I the only other one?" }
    ]
  </file>
```

---

Open Source Used In Cisco VIM 4.2.0  4700
describe('SCE doc demo', function() {
  it('should sanitize untrusted values', function() {
    expect(element.all(by.css('.htmlComment')).first().getInnerHtml()).
      toBe('<span>Is <i>anyone</i> reading this?</span>);
  });

  it('should NOT sanitize explicitly trusted values', function() {
    expect(element(by.id('explicitlyTrustedHtml')).getInnerHtml()).toBe(
      '<span onmouseover="this.textContent=&quot;Explicitly trusted HTML bypasses ' +
      'sanitization.&quot;">Hover over this text.</span>);
  });
</example>

## Can I disable SCE completely?

Yes, you can. However, this is strongly discouraged. SCE gives you a lot of security benefits for little coding overhead. It will be much harder to take an SCE disabled application and either secure it on your own or enable SCE at a later stage. It might make sense to disable SCE for cases where you have a lot of existing code that was written before SCE was introduced and you're migrating them a module at a time.

That said, here's how you can completely disable SCE:

```javascript
angular.module('myAppWithSceDisabledmyApp', []).config(function($sceProvider) {
  // Completely disable SCE. For demonstration purposes only!
  // Do not use in new projects.
  $sceProvider.enabled(false);
});
```
* License: MIT
*/

Found in path(s):
* /opt/cola/permits/1162152667_1620790867.69/0/python-XStatic-Angular-1.5.8.0-6.el8ost.src.rpm-cosi-expand-archive-aZoM5WWY/XStatic-Angular-1.5.8.0.tar.gz-cosi-expand-archive-EGrGj8Dh/XStatic-Angular-1.5.8.0/xstatic/pkg/angular/data/angular-animate.js
* /opt/cola/permits/1162152667_1620790867.69/0/python-XStatic-Angular-1.5.8.0-6.el8ost.src.rpm-cosi-expand-archive-aZoM5WWY/XStatic-Angular-1.5.8.0.tar.gz-cosi-expand-archive-EGrGj8Dh/XStatic-Angular-1.5.8.0/xstatic/pkg/angular/data/angular-aria.js
* /opt/cola/permits/1162152667_1620790867.69/0/python-XStatic-Angular-1.5.8.0-6.el8ost.src.rpm-cosi-expand-archive-aZoM5WWY/XStatic-Angular-1.5.8.0.tar.gz-cosi-expand-archive-EGrGj8Dh/XStatic-Angular-1.5.8.0/xstatic/pkg/angular/data/angular-message-format.js
* /opt/cola/permits/1162152667_1620790867.69/0/python-XStatic-Angular-1.5.8.0-6.el8ost.src.rpm-cosi-expand-archive-aZoM5WWY/XStatic-Angular-1.5.8.0.tar.gz-cosi-expand-archive-EGrGj8Dh/XStatic-Angular-1.5.8.0/xstatic/pkg/angular/data/angular-loader.js
* /opt/cola/permits/1162152667_1620790867.69/0/python-XStatic-Angular-1.5.8.0-6.el8ost.src.rpm-cosi-expand-archive-aZoM5WWY/XStatic-Angular-1.5.8.0.tar.gz-cosi-expand-archive-EGrGj8Dh/XStatic-Angular-1.5.8.0/xstatic/pkg/angular/data/angular-sanitize.js
* /opt/cola/permits/1162152667_1620790867.69/0/python-XStatic-Angular-1.5.8.0-6.el8ost.src.rpm-cosi-expand-archive-aZoM5WWY/XStatic-Angular-1.5.8.0.tar.gz-cosi-expand-archive-EGrGj8Dh/XStatic-Angular-1.5.8.0/xstatic/pkg/angular/data/angular-route.js
* /opt/cola/permits/1162152667_1620790867.69/0/python-XStatic-Angular-1.5.8.0-6.el8ost.src.rpm-cosi-expand-archive-aZoM5WWY/XStatic-Angular-1.5.8.0.tar.gz-cosi-expand-archive-EGrGj8Dh/XStatic-Angular-1.5.8.0/xstatic/pkg/angular/data/angular-cookies.js
* /opt/cola/permits/1162152667_1620790867.69/0/python-XStatic-Angular-1.5.8.0-6.el8ost.src.rpm-cosi-expand-archive-aZoM5WWY/XStatic-Angular-1.5.8.0.tar.gz-cosi-expand-archive-EGrGj8Dh/XStatic-Angular-1.5.8.0/xstatic/pkg/angular/data/angular-resource.js
* /opt/cola/permits/1162152667_1620790867.69/0/python-XStatic-Angular-1.5.8.0-6.el8ost.src.rpm-cosi-expand-archive-aZoM5WWY/XStatic-Angular-1.5.8.0.tar.gz-cosi-expand-archive-EGrGj8Dh/XStatic-Angular-1.5.8.0/xstatic/pkg/angular/data/angular-mocks.js
* /opt/cola/permits/1162152667_1620790867.69/0/python-XStatic-Angular-1.5.8.0-6.el8ost.src.rpm-cosi-expand-archive-aZoM5WWY/XStatic-Angular-1.5.8.0.tar.gz-cosi-expand-archive-EGrGj8Dh/XStatic-Angular-1.5.8.0/xstatic/pkg/angular/data/angular-parse-ext.js
* /opt/cola/permits/1162152667_1620790867.69/0/python-XStatic-Angular-1.5.8.0-6.el8ost.src.rpm-cosi-expand-archive-aZoM5WWY/XStatic-Angular-1.5.8.0.tar.gz-cosi-expand-archive-EGrGj8Dh/XStatic-Angular-1.5.8.0/xstatic/pkg/angular/data/angular-touch.js

1.563 python3-cryptography 2.3 3.el8

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1.564 perl-pod-simple 3.35 395.el8

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=head1 NAME

Pod::Simple::PullParserStartToken -- start-tokens from Pod::Simple::PullParser
**SYNOPSIS**

(See L<Pod::Simple::PullParser>)

**DESCRIPTION**

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:

=over

=item $token->tagname

This returns the tagnames for this start-token object.
For example, parsing a "=head1 ..." line will give you a start-token with the tagnames of "head1", token(s) for its content, and then an end-token with the tagnames of "head1".

=item $token->tagname(I<somestring>)

This changes the tagnames 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 LZ<> <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

```
Pod::Simple::PullParserStartToken->new( I<tagname>, I<attrhash> )
```

=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 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/cola/permits/1162152397_1620791150.94/0/perl-Pod-Simple-3.35-395.el8-1.src.rpm-cosi-expand-archive-CoUzHpTZ/Pod-Simple-3.35.tar.gz-cosi-expand-archive-n2ZJIDvBP/Pod-Simple-3.35/lib/Pod/Simple/PullParserStartToken.pm
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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');
$parser->end_head1() if $parser->can('end_head1');

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>

=head1 SUPPORT

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=head1 NAME

Pod::Simple - framework for parsing Pod
### SYNOPSIS

TODO

### 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<pod_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).

### MAIN METHODS

- C<$parser = I<SomeClass>->new();

This returns a new parser object, where I<C<SomeClass>> is a subclass of Pod::Simple.

- C<$parser->output_fh( *OUT );

This sets the filehandle that C<$parser>'s output will be written to. You can pass C<*STDOUT> or C<*STDERR>, otherwise you should probably do something like this:

```perl
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<< $parser->parse_I<whatever> >> methods.
This sets the string that C<$parser>'s output will be sent to, instead of any filehandle.

This reads the Pod content of the file (or filehandle) that you specify, and processes it with that C<$parser> object, according to however C<$parser>'s class works, and according to whatever parser options you have set up for this C<$parser> object.

This works just like C<parse_file> except that it reads the Pod content not from a file, but from a string that you have already in memory.

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<$parser> object; but C<parse_lines> can be called as many times per C<$parser> object as you want, as long as the last call (and only the last call) ends with an C<undef> value.

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.

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')"

=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

=item C<< $parser->parse_characters( I<SOMEVALUE> ) $>>

The Pod parser normally expects to read octets and to convert those octets to characters based on the C<<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 C<<encoding>> command and to skip all the code paths involving decoding octets.

=item C<< $parser->no_whining( I<SOMEVALUE> ) $>>

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.

=item C<< $parser->no_errata_section( I<SOMEVALUE> ) $>>

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
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 $parser has read from a source, and come to the end of that source.

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_verbatimIndent( ' ' );

For tab indents, you'd use a tab character:

$parser->strip_verbatimIndent("\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:

```perl
$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 any lines indented. You can do something like this:

```perl
$new->strip_verbatim_indent(sub {  
    my $lines = shift;  
    sub { s/\s+// for @{ $lines },  
            return undef;  
    });
```

=head1 TERTIARY METHODS

=over

=item C<< $parser->abandon_output_fh() >>\<abandon_output_fh>

Cancel output to the file handle. Any POD read by the C<$parser> is not effected.

=item C<< $parser->abandon_output_string() >>\<abandon_output_string>

Cancel output to the output string. Any POD read by the C<$parser> is not effected.

=item C<< $parser->accept_code( @codes ) >>\<accept_code>

Alias for L<< accept_codes >.

=item C<< $parser->accept_codes( @codes ) >>\<accept_codes>

Allows C<$parser> to accept a list of L<perlpod/Formatting Codes>. This can be used to implement user-defined codes.
=item C<< $parser->accept_directive_as_data( @directives ) >>

Allows C<$parser> to accept a list of directives for data paragraphs. A directive is the label of a L<perlpod/Command Paragraph>. A data paragraph is one delimited by C<< =begin/=for/=end >> directives. This can be used to implement user-defined directives.

=item C<< $parser->accept_directive_as_processed( @directives ) >>

Allows C<$parser> to accept a list of directives for processed paragraphs. A directive is the label of a L<perlpod/Command Paragraph>. A processed paragraph is also known as L<perlpod/Ordinary Paragraph>. This can be used to implement user-defined directives.

=item C<< $parser->accept_directive_as_verbatim( @directives ) >>

Allows C<$parser> to accept a list of directives for L<perlpod/Verbatim Paragraph>. A directive is the label of a L<perlpod/Command Paragraph>. This can be used to implement user-defined directives.

=item C<< $parser->accept_target( @targets ) >>

Alias for L<< 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() >>X<detected_encoding>

Return the encoding corresponding to C<< =encoding >>, but only if the encoding was recognized and handled.

=item C<< $parser->encoding() >>X<encoding>

Return encoding of the document, even if the encoding is not correctly handled.

=item C<< $parser->parse_from_file( $source, $to ) >>X<parse_from_file>

Parses from C<$source> file to C<$to> file. Similar to L<< Pod::Parser/parse_from_file >>.

=item C<< $parser->scream( @error_messages ) >>X<scream>

Log an error that can't be ignored.

=item C<< $parser->unaccept_code( @codes ) >>X<unaccept_code>

Alias for L<< unaccept_codes >>.

=item C<< $parser->unaccept_codes( @codes ) >>X<unaccept_codes>

Removes C<< @codes >> as valid codes for the parse.

=item C<< $parser->unaccept_directive( @directives ) >>X<unaccept_directive>

Alias for L<< unaccept_directives >>.

=item C<< $parser->unaccept_directives( @directives ) >>X<unaccept_directives>

Removes C<< @directives >> as valid directives for the parse.

=item C<< $parser->unaccept_target( @targets ) >>X<unaccept_target>

Alias for L<< unaccept_targets >>.
=item C<< $parser->unaccept_targets( @targets ) >>

Removes C<< @targets >> as valid targets for the parse.

=item C<< $parser->version_report() >>

Returns a string describing the version.

=item C<< $parser->whine( @error_messages ) >>

Log an error unless C<< $parser->no_whining( TRUE ); >>.

=head1 ENCODING

The Pod::Simple parser expects to read B<octets>. The parser will decode the octets into Perl's internal character string representation using the value of the C<encoding> declaration in the POD source.

If the POD source does not include an C<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 L<perlpodspec>. (If the POD source contains only ASCII bytes, the encoding is assumed to be ASCII.)

If you set the C<payload_characters> option to a true value the parser will expect characters rather than octets; will ignore any C<encoding>; and will make no attempt to decode the input.

=head1 SEE ALSO

L<Pod::Simple::Subclassing>

L<perlpod|perlpod>

L<perlpodspec|perlpodspec>

L<Pod::Escapes|Pod::Escapes>

L<perldoc>

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=back

Documentation has been contributed by:

=over

=item * Gabor Szabo <szabgab@gmail.com>

=item * Shawn H Corey <SHCOREY at cpan.org>

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=cut

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* /opt/cola/permits/1162152397_1620791150.94/0/perl-Pod-Simple-3.35-395.el8-1.src.rpm-cosi-expand-archiveCoUzHpTZ/Pod-Simple-3.35.tar.gz-cosi-expand-archive-n2ZlDvBP/Pod-Simple-3.35/lib/Pod/Simple.pod
No license file was found, but licenses were detected in source scan.
=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)

Open Source Used In Cisco VIM 4.2.0 4722


Example:

```perl
% 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
% 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.
(This can be an absolute or relative path, it doesn't matter.)
A common value you might want would be just ".," for the current directory:

```
$batchconv->batch_convert( ".," , ...);
```

=item $batchconv->batch_convert( 'somedir:someother:also' , ...);

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.

=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:

<html>
This specifies what string should be put at the end of the contents page. The default is a string more or less like this:

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.

If true (the default value), we autogenerate some CSS files in the output directory, and set our HTML files to use those.

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.

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

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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=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

Found in path(s):
* /opt/cola/permits/1162152397_1620791150.94/0/perl-Pod-Simple-3.35-395.el8-1.src.rpm-cosi-expand-archive-CoUzHpTZ/Pod-Simple-3.35.tar.gz-cosi-expand-archive-n2ZIDvBP/Pod-Simple-3.35/lib/Pod/Simple/HTMLBatch.pm
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 \
"exit Pod::Simple::TextContent->filter(shift)->any_errata_seen"
thingy.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>

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* /opt/cola/permits/1162152397_1620791150.94/0/perl-Pod-Simple-3.35-395.el8-1.src.rpm-cosi-expand-archive-CoUzHpTZ/Pod-Simple-3.35.tar.gz-cosi-expand-archive-n2ZlDvBP/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::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 C<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>

The article "Constants in Perl", in I<The Perl Journal> issue
21.  See L<http://interglacial.com/tpj/21/>

=head1 SUPPORT

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

# 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
SYNOPSIS

# a long story

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<> <ar>> >>.

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'

], 'Pod::Simple::LinkSection' ),

'baz'

], 'Pod::Simple::LinkSection' );

But stringify it and you get just the text content:

% 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';
SEE ALSO

L<Pod::Simple>

SUPPORT

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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
=head1 NAME

Pod::Simple::Subclassing -- write a formatter as a Pod::Simple subclass

=head1 SYNOPSIS

package Pod::SomeFormatter;
use Pod::Simple;
@ISA = qw(Pod::Simple);
$VERSION = '1.01';
use strict;

sub _handle_element_start {
  my($parser, $element_name, $attr_hash_r) = @_; 
  ...
}

sub _handle_element_end {
  my($parser, $element_name, $attr_hash_r) = @_; 
  # NOTE: $attr_hash_r is only present when $element_name is "over" or "begin"
  # The remaining code excerpts will mostly ignore this $attr_hash_r, as it is
  # mostly useless. It is documented where "over-*" and "begin" events are
  # documented.
  ...
}

sub _handle_text {
  my($parser, $text) = @_; 
  ...
}
1;

=head1 DESCRIPTION

This document is about using Pod::Simple to write a Pod processor,
generally a Pod formatter. If you just want to know about using an
existing Pod formatter, instead see its documentation and see also the
docs in L<Pod::Simple>.

B<The zeroeth step> in writing a Pod formatter is to make sure that there
isn't already a decent one in CPAN. See L<http://search.cpan.org/>.
run a search on the name of the format you want to render to. Also consider joining the Pod People list
L<http://lists.perl.org/showlist.cgi?name=pod-people> and asking whether anyone has a formatter for that format -- maybe someone cobbled one together but just hasn't released it.

B<The first step> in writing a Pod processor is to read L<perlpodspec>, which contains information on writing a Pod parser (which has been largely taken care of by Pod::Simple), but also a lot of requirements and recommendations for writing a formatter.

B<The second step> is to actually learn the format you're planning to format to -- or at least as much as you need to know to represent Pod, which probably isn't much.

B<The third step> is to pick which of Pod::Simple's interfaces you want to use:

=over

=item Pod::Simple

The basic L<Pod::Simple> interface that uses C<_handle_element_start()>,
C<_handle_element_end()> and C<_handle_text>().

=item Pod::Simple::Methody

The L<Pod::Simple::Methody> interface is event-based, similar to that of
L<HTML::Parser> or L<XML::Parser>'s "Handlers".

=item Pod::Simple::PullParser

L<Pod::Simple::PullParser> provides a token-stream interface, sort of
like L<HTML::TokeParser>'s interface.

=item Pod::Simple::SimpleTree

L<Pod::Simple::SimpleTree> provides a simple tree interface, rather like
L<XML::Parser>'s "Tree" interface. Users familiar with XML handling will be comfortable with this interface. Users interested in outputting XML, should look into the modules that produce an XML representation of the Pod stream, notably L<Pod::Simple::XMLOutStream>; you can feed the output of such a class to whatever XML parsing system you are most at home with.

=back

B<The last step> is to write your code based on how the events (or tokens, or tree-nodes, or the XML, or however you're parsing) will map to
constructs in the output format. Also be sure to consider how to escape
text nodes containing arbitrary text, and what to do with text
nodes that represent preformatted text (from verbatim sections).

=head1 Events

TODO intro... mention that events are supplied for implicits, like for
missing >’s

In the following section, we use XML to represent the event structure
associated with a particular construct. That is, TODO

=over

=item C<< $parser->_handle_element_start( I<element_name>, I<attr_hashref> ) >>

=item C<< $parser->_handle_element_end( I<element_name> ) >>

=item C<< $parser->_handle_text( I<text_string> ) >>

=back

TODO describe

=over

=item events with an element_name of Document

Parsing a document produces this event structure:

<Document start_line="543">
...all events...
</Document>

The value of the I<start_line> attribute will be the line number of the first
Pod directive in the document.

If there is no Pod in the given document, then the
event structure will be this:

<Document contentless="1" start_line="543">
</Document>

In that case, the value of the I<start_line> attribute will not be meaningful:
under current implementations, it will probably be the line number of the
last line in the file.

=ITEM events with an element_name of Para

Parsing a plain (non-verbatim, non-directive, non-data) paragraph in
a Pod document produces this event structure:

<Para start_line="543">
  ...all events in this paragraph...
</Para>

The value of the I<start_line> attribute will be the line number of the start
of the paragraph.

For example, parsing this paragraph of Pod:

The value of the I<start_line> attribute will be the
line number of the start of the paragraph.

produces this event structure:

<Para start_line="129">
  The value of the
  I=start_line
  attribute will be the line number of the first Pod directive
  in the document.
</Para>

=ITEM events with an element_name of B, C, F, or I.

Parsing a BE<lt>...E<gt> formatting code (or of course any of its
semantically identical syntactic variants
S<BE<lt>E<lt> ... E<gt>E<lt>>>,
or S<BE<lt>E<lt>E<lt>E<lt> ... E<gt>E<lt>E<lt>E<lt>E<gt>E<lt>>>, etc.)
produces this event structure:

<B>
  ...stuff...
</B>

Currently, there are no attributes conveyed.

Parsing C, F, or I codes produce the same structure, with only a
different element name.
If your parser object has been set to accept other formatting codes, then they will be presented like these B/C/F/I codes -- i.e., without any attributes.

=item events with an element_name of S

Normally, parsing an SE<lt>...E<gt> sequence produces this event structure, just as if it were a B/C/F/I code:

```xml
<S>
...stuff...
</S>
```

However, Pod::Simple (and presumably all derived parsers) offers the C<nbsp_for_S> option which, if enabled, will suppress all S events, and instead change all spaces in the content to non-breaking spaces. This is intended for formatters that output to a format that has no code that means the same as SE<lt>...E<gt>, but which has a code/character that means non-breaking space.

=item events with an element_name of X

Normally, parsing an XE<lt>...E<gt> sequence produces this event structure, just as if it were a B/C/F/I code:

```xml
<X>
...stuff...
</X>
```

However, Pod::Simple (and presumably all derived parsers) offers the C<nix_X_codes> option which, if enabled, will suppress all X events and ignore their content. For formatters/processors that don't use X events, this is presumably quite useful.

=item events with an element_name of L

Because the LE<lt>...E<gt> is the most complex construct in the language, it should not surprise you that the events it generates are the most complex in the language. Most of complexity is hidden away in the attribute values, so for those of you writing a Pod formatter that produces a non-hypertextual format, you can just ignore the attributes and treat an L event structure like a formatting element that (presumably) doesn't actually produce a change in formatting. That is, the content of the L event structure (as opposed to its attributes) is always what text should be displayed.

There are, at first glance, three kinds of L links: URL, man, and pod.
When a LE<lt>I<some_url>E<gt> code is parsed, it produces this event structure:

\[
\text{that_url}
\]

The C<type="url"> attribute is always specified for this type of L code.

For example, this Pod source:

\[
\text{L<http://www.perl.com/CPAN/authors/>}
\]

produces this event structure:

\[
\text{http://www.perl.com/CPAN/authors/}
\]

When a LE<lt>I<manpage(section)>E<gt> code is parsed (and these are fairly rare and not terribly useful), it produces this event structure:

\[
\text{manpage(section)}
\]

The C<type="man"> attribute is always specified for this type of L code.

For example, this Pod source:

\[
\text{L<crontab(5)>}
\]

produces this event structure:

\[
\text{crontab(5)}
\]

In the rare cases where a man page link has a section specified, that text appears in a I<section> attribute. For example, this Pod source:

\[
\text{L<crontab(5)/"ENVIRONMENT">}
\]

will produce this event structure:
In the rare case where the Pod document has code like
 LE<lt>1<manpage(section)>E<gt>, then the I<sometext> will appear
 as the content of the element, the I<manpage(section)> text will appear
 only as the value of the I<to> attribute, and there will be no
 C<content-implicit="yes"> attribute (whose presence means that the Pod parser
 had to infer what text should appear as the link text -- as opposed to
cases where that attribute is absent, which means that the Pod parser did
I<not> have to infer the link text, because that L code explicitly specified
some link text.)

For example, this Pod source:

L<hell itself!|crontab(5)>

will produce this event structure:

<L raw="hell itself!|crontab(5)" to="crontab(5)" type="man">
 hell itself!
 </L>

The last type of L structure is for links to/within Pod documents. It is
the most complex because it can have a I<to> attribute, I<or> a
I<section> attribute, or both. The C<type="pod"> attribute is always
specified for this type of L code.

In the most common case, the simple case of a LE<lt>podpageE<gt> code
produces this event structure:

<L content-implicit="yes" raw="podpage" to="podpage" type="pod">
 podpage
 </L>

For example, this Pod source:

L<Net::Ping>

produces this event structure:

<L content-implicit="yes" raw="Net::Ping" to="Net::Ping" type="pod">
 Net::Ping
 </L>
In cases where there is link-text explicitly specified, it is to be found in the content of the element (and not the attributes), just as with the `<I>sometext</I>` case discussed above. For example, this Pod source:

```pod
L<Perl Error Messages|perldiag>
```

produces this event structure:

```xml
<L raw="Perl Error Messages|perldiag" to="perldiag" type="pod">
Perl Error Messages
</L>
```

In cases of links to a section in the current Pod document, there is a `<section>` attribute instead of a `<to>` attribute. For example, this Pod source:

```pod
L</"Member Data">
```

produces this event structure:

```xml
<L content-implicit="yes" raw="/\"Member Data\"" section="Member Data" type="pod">
"Member Data"
</L>
```

As another example, this Pod source:

```pod
L<the various attributes|"Member Data">
```

produces this event structure:

```xml
<L raw="the various attributes|\"Member Data\"" section="Member Data" type="pod">
the various attributes
</L>
```

In cases of links to a section in a different Pod document, there are both a `<section>` attribute and a `<to>` attribute. For example, this Pod source:

```pod
L<perlsyn/"Basic BLOCKs and Switch Statements">
```

produces this event structure:

```xml
<L content-implicit="yes" raw="perlsyn/\"Basic BLOCKs and Switch Statements\"" section="Basic BLOCKs and Switch Statements" to="perlsyn" type="pod">
"Basic BLOCKs and Switch Statements" in perlsyn
</L>
```
As another example, this Pod source:

```l<SWITCH statements|perlsyn/"Basic BLOCKs and Switch Statements">```

produces this event structure:

```<L raw="SWITCH statements|perlsyn/&quot;Basic BLOCKs and Switch Statements&quot;" section="Basic BLOCKs and Switch Statements" to="perlsyn" type="pod">SWITCH statements
</L>```

Incidentally, note that we do not distinguish between these syntaxes:

- `L</"Member Data">`
- `L</Member Data>`
- `L</Member Data>`  [deprecated syntax]

That is, they all produce the same event structure (for the most part), namely:

```<L content-implicit="yes" raw="$depends_on_syntax" section="Member Data" type="pod">&amp;#34;Member Data&amp;#34;
</L>```

The `I<raw> attribute depends on what the raw content of the `C<LE<lt>E<gt>> formatting code is, so that is why the event structure is the same "for the most part".

If you have not guessed it yet, the `I<raw> attribute contains the raw, original, unescaped content of the `C<LE<lt>E<gt>> formatting code. In addition to the examples above, take notice of the following event structure produced by the following `C<LE<lt>E<gt>> formatting code.

```L<click B<here>|page/About the C<-M> switch>```

```<L raw=""click B<here>|page/About the C<-M> switch" section="About the -M switch" to="page" type="pod">click B<here>
</L>```

Specifically, notice that the formatting codes are present and unescaped in `I<raw>.

There is a known bug in the `I<raw> attribute where any surrounding whitespace is condensed into a single " ". For example, given `LE<60>   linkE<62>, I<raw> will be " link".

=item events with an element_name of E or Z

While there are Pod codes EE<lt>E<gt> and ZE<lt>E<gt>, these
I do not produce any E or Z events -- that is, there are no such events as E or Z.

=item events with an element_name of Verbatim

When a Pod verbatim paragraph (AKA "codeblock") is parsed, it produces this event structure:

<Verbatim start_line="543" xml:space="preserve">
...text...
</Verbatim>

The value of the I<start_line> attribute will be the line number of the first line of this verbatim block. The I<xml:space> attribute is always present, and always has the value "preserve".

The text content will have tabs already expanded.

=item events with an element_name of head1 .. head4

When a "=head1 ..." directive is parsed, it produces this event structure:

<head1>
...stuff...
</head1>

For example, a directive consisting of this:

=headd1 Options to C<new> et al.

will produce this event structure:

<head1 start_line="543">
Options to
<C>
  new
</C>
et al.
</head1>

"=head2" through "=head4" directives are the same, except for the element names in the event structure.

=item events with an element_name of encoding

In the default case, the events corresponding to C<=encoding> directives
are not emitted. They are emitted if \texttt{keep_encoding_directive} is true. In that case they produce event structures like 
\texttt{events with an element_name of head1 .. head4} above.

=item events with an element_name of over-bullet

When an "\texttt{=over ... Z=back}" block is parsed where the items are 
a bulleted list, it will produce this event structure:

\begin{verbatim}
<over-bullet indent="4" start_line="543">
  <item-bullet start_line="545">
    ...Stuff...
  </item-bullet>
  ...more item-bullets...
</over-bullet fake-closer="1">
\end{verbatim}

The attribute \texttt{fake-closer} is only present if it is a true value; it is not 
present if it is a false value. It is shown in the above example to illustrate 
where the attribute is (in the \texttt{closing} tag). It signifies that the \texttt{over} 
did not have a matching \texttt{back}, and thus \texttt{Pod::Simple} had to create a fake 
closer.

For example, this Pod source:

\begin{verbatim}
=over
=item *

Something
=back
\end{verbatim}

Would produce an event structure that does \texttt{not} have the \texttt{fake-closer} 
attribute, whereas this Pod source:

\begin{verbatim}
=over
=item *

Gasp! An unclosed =over block!
\end{verbatim}

would. The rest of the over-* examples will not demonstrate this attribute, 
but they all can have it. See \texttt{Pod::Checker}’s source for an example of this 
attribute being used.

The value of the \texttt{indent} attribute is whatever value is after the 
"\texttt{=over}" directive, as in "\texttt{=over 8}". If no such value is specified 
in the directive, then the \texttt{indent} attribute has the value "4".
For example, this Pod source:

```
=over
=|item *
Stuff
=|item *
Bar I<baz>!
=back
```

produces this event structure:

```html
<over-bullet indent="4" start_line="10">
 <item-bullet start_line="12">
  Stuff
 </item-bullet>
 <item-bullet start_line="14">
  Bar <I>baz</I>!
 </item-bullet>
</over-bullet>
```

=item events with an element_name of over-number

When an "=over ... Z<>=back" block is parsed where the items are a numbered list, it will produce this event structure:

```html
<over-number indent="4" start_line="543">
 <item-number number="1" start_line="545">
  ...Stuff...
 </item-number>
 ...more item-number...
</over-bullet>
```

This is like the "over-bullet" event structure; but note that the contents are "item-number" instead of "item-bullet", and note that they will have a "number" attribute, which some formatters/processors may ignore (since, for example, there's no need for it in HTML when producing an "<UL><LI>...</LI>...</UL>" structure), but which any processor may use.

Note that the values for the I<number> attributes of "item-number" elements in a given "over-number" area I<will> start at 1 and go up by one each time. If the Pod source doesn't follow that order (even though it really should!), whatever numbers it has will be ignored (with
the correct values being put in the I<number> attributes), and an error
message might be issued to the user.

=item events with an element_name of over-text

These events are somewhat unlike the other over-*
structures, as far as what their contents are. When
an ”=over ... Z<>=back” block is parsed where the items are
a list of text "subheadings", it will produce this event structure:

<over-text indent="4" start_line="543">
  <item-text>
    ...stuff...
  </item-text>
  ...stuff (generally Para or Verbatim elements)... 
  <item-text>
    ...more item-text and/or stuff...
  </over-text>

The I<indent> and I<fake-closer> attributes are as with the other over-* events.

For example, this Pod source:

=over

=item Foo

Stuff

=item Bar I<baz>!

Quux

=back

produces this event structure:

<over-text indent="4" start_line="20">
  <item-text start_line="22">
    Foo
  </item-text>
  <Para start_line="24">
    Stuff
  </Para>
  <item-text start_line="26">
    Bar
    <1>
    baz
=item events with an element_name of over-block

These events are somewhat unlike the other over-* structures, as far as what their contents are. When an "=over ... Z<>=back" block is parsed where there are no items, it will produce this event structure:

<over-block indent="4" start_line="543">
...stuff (generally Para or Verbatim elements)...
</over-block>

The I<indent> and I<fake-closer> attributes are as with the other over-* events.

For example, this Pod source:

=over

For cutting off our trade with all parts of the world

For transporting us beyond seas to be tried for pretended offenses

He is at this time transporting large armies of foreign mercenaries to complete the works of death, desolation and tyranny, already begun with circumstances of cruelty and perfidy scarcely paralleled in the most barbarous ages, and totally unworthy the head of a civilized nation.

=back

will produce this event structure:

<over-block indent="4" start_line="2">
<Para start_line="4">
For cutting off our trade with all parts of the world
</Para>
<Para start_line="6">
For transporting us beyond seas to be tried for pretended offenses
</Para>
<Para start_line="8">

Quux
He is at this time transporting large armies of [...more text...]
</Para>
</over-block>

=item events with an element_name of over-empty

B<Note: These events are only triggered if C<parse_empty_lists()> is set to a true value.>

These events are somewhat unlike the other over-* structures, as far as what their contents are. When an "=over ... Z<=back" block is parsed where there is no content, it will produce this event structure:

<over-empty indent="4" start_line="543">
</over-empty>

The I<indent> and I<fake-closer> attributes are as with the other over-* events.

For example, this Pod source:

=over
=over
=back
=back

will produce this event structure:

<over-block indent="4" start_line="1">
<over-empty indent="4" start_line="3">
</over-empty>
</over-block>

Note that the outer C<=over> is a block because it has no C<=item>s but still has content: the inner C<=over>. The inner C<=over>, in turn, is completely empty, and is treated as such.

=item events with an element_name of item-bullet

See L</"events with an element_name of over-bullet">, above.

=item events with an element_name of item-number

See L</"events with an element_name of over-number">, above.

=item events with an element_name of item-text
See L"events with an element_name of over-text">, above.

=item events with an element_name of for

TODO...

=item events with an element_name of Data

TODO...

=back

=head1 More Pod::Simple Methods

Pod::Simple provides a lot of methods that aren't generally interesting to the end user of an existing Pod formatter, but some of which you might find useful in writing a Pod formatter. They are listed below. The first several methods (the accept_* methods) are for declaring the capabilities of your parser, notably what C<< for I<targetname>> sections it's interested in, what extra NE<lt>...E<gt> codes it accepts beyond the ones described in the I<perlpod>.

=over

=item C<< $parser->accept_targets( I<SOMEVALUE> ) >>

As the parser sees sections like:

=for html  <img src="fig1.jpg">

or

=begin html

  <img src="fig1.jpg">

=end html

...the parser will ignore these sections unless your subclass has specified that it wants to see sections targeted to "html" (or whatever the formatter name is).

If you want to process all sections, even if they're not targeted for you, call this before you start parsing:
$parser->accept_targets("*");

=item C<< $parser->accept_targets_as_text( I<SOMEVALUE> ) >>

This is like accept_targets, except that it specifies also that the
content of sections for this target should be treated as Pod text even
if the target name in "=for I<targetname>" doesn't start with a ":-:".

At time of writing, I don't think you'll need to use this.

=item C<< $parser->accept_codes( I<Codename>, I<Codename>... ) >>

This tells the parser that you accept additional formatting codes,
beyond just the standard ones (I B C L F S X, plus the two weird ones
you don't actually see in the parse tree, Z and E). For example, to also
accept codes "N", "R", and "W":

$parser->accept_codes( qw( N R W ) );

B<TODO: document how this interacts with =extend, and long element names>

=item C<< $parser->accept_directive_as_data( I<directive_name> ) >>

=item C<< $parser->accept_directive_as_verbatim( I<directive_name> ) >>

=item C<< $parser->accept_directive_as_processed( I<directive_name> ) >>

In the unlikely situation that you need to tell the parser that you will
accept additional directives (=foo" things), you need to first set the
parser to treat its content as data (i.e., not really processed at
all), or as verbatim (mostly just expanding tabs), or as processed text
(parsing formatting codes like BE<lt>...E<gt>).

For example, to accept a new directive ":=method", you'd presumably
use:

$parser->accept_directive_as_processed("method");

so that you could have Pod lines like:

=method I<$whatever> thing B<um>

Making up your own directives breaks compatibility with other Pod
formatters, in a way that using ":=for I<target> ..." lines doesn't;
however, you may find this useful if you're making a Pod superset
format where you don't need to worry about compatibility.
Setting this attribute to a true value (and by default it is false) will turn "SE<lt>...E<gt>" sequences into sequences of words separated by C\xA0 (non-breaking space) characters. For example, it will take this:

I like S<Dutch apple pie>, don't you?

and treat it as if it were:

I like DutchE\nbsp>appleE\nbsp>pie, don't you?

This is handy for output formats that don't have anything quite like an "SE<lt>...E<gt>" code, but which do have a code for non-breaking space.

There is currently no method for going the other way; but I can probably provide one upon request.

This returns a string reporting the $VERSION value from your module (and its classname) as well as the $VERSION value of Pod::Simple. Note that L<perlpodspec> requires output formats (wherever possible) to note this detail in a comment in the output format. For example, for some kind of SGML output format:

print OUT "<!-- \n", $parser->version_report, "\n -->";

This returns the count of Pod paragraphs seen so far.

This is the current line number being parsed. But you might find the "line_number" event attribute more accurate, when it is present.

This attribute, when set to a true value (and it is false by default) ignores any "XE<lt>...E<gt>" sequences in the document being parsed. Many formats don't actually use the content of these codes, so have
no reason to process them.

=item C<< $parser->keep_encoding_directive( 1<somevalue> ) >>

This attribute, when set to a true value (it is false by default) will keep $encoding and its content in the event structure. Most formats don't actually need to process the content of an $encoding directive, even when this directive sets the encoding and the processor makes use of the encoding information. Indeed, it is possible to know the encoding without processing the directive content.

=item C<< $parser->merge_text( 1<somevalue> ) >>

This attribute, when set to a true value (and it is false by default) makes sure that only one event (or token, or node) will be created for any single contiguous sequence of text. For example, consider this somewhat contrived example:

I just LOVE Z<hotE<32>apple pie!

When that is parsed and events are about to be called on it, it may actually seem to be four different text events, one right after another: one event for "I just LOVE ", one for "hot", one for " ", and one for "apple pie!". But if you have merge_text on, then you're guaranteed that it will be fired as one text event: "I just LOVE hot apple pie!".

=item C<< $parser->code_handler( 1<code_ref> ) >>

This specifies code that should be called when a code line is seen (i.e., a line outside of the Pod). Normally this is undef, meaning that no code should be called. If you provide a routine, it should start out like this:

sub get_code_line {  # or whatever you'll call it
  my($line, $line_number, $parser) = @_;
  ...
}

Note, however, that sometimes the Pod events aren't processed in exactly the same order as the code lines are -- i.e., if you have a file with Pod, then code, then more Pod, sometimes the code will be processed (via whatever you have code_handler call) before the all of the preceding Pod has been processed.

=item C<< $parser->cut_handler( 1<code_ref> ) >>
This is just like the code_handler attribute, except that it's for "=cut" lines, not code lines. The same caveats apply. "=cut" lines are unlikely to be interesting, but this is included for completeness.

=item C<< $parser->pod_handler( I<CODE_REF> ) >>

This is just like the code_handler attribute, except that it's for "=pod" lines, not code lines. The same caveats apply. "=pod" lines are unlikely to be interesting, but this is included for completeness.

=item C<< $parser->whiteline_handler( I<CODE_REF> ) >>

This is just like the code_handler attribute, except that it's for lines that are seemingly blank but have whitespace (" " and/or "\t") on them, not code lines. The same caveats apply. These lines are unlikely to be interesting, but this is included for completeness.

=item C<< $parser->whine( I<linenumber>, I<complaint string> ) >>

This notes a problem in the Pod, which will be reported in the "Pod Errors" section of the document and/or sent to STDERR, depending on the values of the attributes C<no_whining>, C<no_errata_section>, and C<complain_stderr>.

=item C<< $parser->scream( I<linenumber>, I<complaint string> ) >>

This notes an error like C<whine> does, except that it is not suppressible with C<no_whining>. This should be used only for very serious errors.

=item C<< $parser->source_dead(1) >>

This aborts parsing of the current document, by switching on the flag that indicates that EOF has been seen. In particularly drastic cases, you might want to do this. It's rather nicer than just calling C<die>!

=item C<< $parser->hide_line_numbers( I<SOMEVALUE> ) >>

Some subclasses that indiscriminately dump event attributes (well, except for ones beginning with "~") can use this object attribute for refraining to dump the "start_line" attribute.
This attribute, if set to true, will suppress reports of non-fatal error messages. The default value is false, meaning that complaints are reported. How they get reported depends on the values of the attributes no_errata_section and complain_stderr.

This attribute, if set to true, will suppress generation of an errata section. The default value is false -- i.e., an errata section will be generated.

This attribute, if set to true will send complaints to STDERR. The default value is false -- i.e., complaints do not go to STDERR.

Some formatter subclasses use this as a flag for whether output should have prologue and epilogue code omitted. For example, setting this to true for an HTML formatter class should omit the "<html><head><title>...</title><body>...</body></html>" prologue and the "</body></html>" epilogue.

If you want to set this to true, you should probably also set no_whining or at least no_errata_section to true.

If you set this attribute to a true value, the parser will try to preserve whitespace in the output. This means that such formatting conventions as two spaces after periods will be preserved by the parser. This is primarily useful for output formats that treat whitespace as significant (such as text or *roff, but not HTML).

If this attribute is set to true, the parser will not ignore empty over/back blocks. The type of over will be empty, documented above, events with an element_name of over-empty.

SEE ALSO

Pod::Simple -- event-based Pod-parsing framework
L<Pod::Simple::Methody> -- like Pod::Simple, but each sort of event calls its own method (like C<start_head3>)

L<Pod::Simple::PullParser> -- a Pod-parsing framework like Pod::Simple, but with a token-stream interface

L<Pod::Simple::SimpleTree> -- a Pod-parsing framework like Pod::Simple, but with a tree interface

L<Pod::Simple::Checker> -- a simple Pod::Simple subclass that reads documents, and then makes a plaintext report of any errors found in the document

L<Pod::Simple::DumpAsXML> -- for dumping Pod documents as tidily indented XML, showing each event on its own line

L<Pod::Simple::XMLOutStream> -- dumps a Pod document as XML (without introducing extra whitespace as Pod::Simple::DumpAsXML does).

L<Pod::Simple::DumpAsText> -- for dumping Pod documents as tidily indented text, showing each event on its own line

L<Pod::Simple::LinkSection> -- class for objects representing the values of the TODO and TODO attributes of LE<lt>...E<gt> elements

L<Pod::Escapes> -- the module that Pod::Simple uses for evaluating EE<lt>...E<gt> content

L<Pod::Simple::Text> -- a simple plaintext formatter for Pod

L<Pod::Simple::TextContent> -- like Pod::Simple::Text, but makes no effort for indent or wrap the text being formatted

L<Pod::Simple::HTML> -- a simple HTML formatter for Pod

L<perlpod|perlpod>

L<perlpodspec|perlpodspec>

L<perldoc>

=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 C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<dwheeler@cpan.org>

=back

=for notes

Hm, my old podchecker version (1.2) says:

*** WARNING: node 'http://search.cpan.org/' contains non-escaped | or / at line 38 in file Subclassing.pod

*** WARNING: node 'http://lists.perl.org/showlist.cgi?name=pod-people' contains non-escaped | or / at line 41 in file Subclassing.pod

Yes, L<...> is hard.

=cut

Found in path(s):

* /opt/cola/permits/1162152397_1620791150.94/0/perl-Pod-Simple-3.35-395.el8-1.src.rpm-cosi-expand-archive-CoUzHpTZ/Pod-Simple-3.35.tar.gz-cosi-expand-archive-n2ZlDvBP/Pod-Simple-
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: perlr, perlrun, perldebug
- Functions: perlfunc
- Objects: perlref, perlmod, perlobj, perlite
- Data Structures: perlref, perllool, perldsc
- Modules: perlmod, perlmodlib, perlsub
- Regexpes: perlre, perlfunc, perlop, perlocale
- Moving to perl5: perltrap, perl
- Linking w/C: perlxtut, perlxs, perlcall, perlgsuts, perlembled

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 perldebug(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: $!");

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
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 -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:

```
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/~demaille/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/n temacs.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/
  win32: http://www.cs.vu.nl/~7Etmgil/vi.html
  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/
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/verpl.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 UWIN 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 UWIN are commercial (UWIN 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 UWIN 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/

Invaluable for Perl/Tk programming are the Perl/Tk FAQ at http://w4.lns.cornell.edu/~7Epvhp/ptk/ptkTOC.html, the Perl/Tk Reference Guide available at http://www.perl.com/CPAN-local/authors/Stephen_O_Lidie/, and the online manpages at http://www-users.cs.umn.edu/~7Eamundson/perl/perlTk/toc.html.

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:useymalloc.
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-execute 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
PATHextension=%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 -l -ane 'print $F[0] + $F[-1]' *

# identify text files
perl -l -e 'for (@ARGV) {print if -f && -T _}' *

# remove (most) comments from C program
perl -0777 -p e 's(/\*.*?\*/\){}g s' 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 -l -e '\$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 single-quotes 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 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
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 perl guts. If you want to call Perl from C, then read perlembedded, percall, 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 perlembedded, 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.

AUTHOR AND COPYRIGHT

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Irrespective of its distribution, all code examples here are in the public domain. You are permitted and encouraged to use this code and any derivatives thereof in your own programs for fun or for profit as you see fit. A simple comment in the code giving credit to the FAQ would be courteous but is not required.

Found in path(s):
* /opt/cola/permits/1162152397_1620791150.94/0/perl-Pod-Simple-3.35-395.el8-1.src.rpm-cosi-expand-archive-CoUzHpTZ/Pod-Simple-3.35.tar.gz-cosi-expand-archive-n2ZlDvBP/Pod-Simple-3.35/t/perlfaqo.txt

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

=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:

```perl
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//; # (if in an ASCII world)
        tr\xAD//d;
    }

    ...
or however you want to alter the value...

    (Note that starting with Perl v5.8, you can use, e.g.,

    my $nbsp = chr utf8::unicode_to_native(0xA0);
    s/$nbsp/ /g;

    to handle the above regardless if it's an ASCII world or not)
}
```

=back

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 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

Found in path(s):
* /opt/cola/permits/1162152397_1620791150.94/0/perl-Pod-Simple-3.35-395.el8-1.src.rpm-cosi-expand-archive-CoUzHpTZ/Pod-Simple-3.35.tar.gz-cosi-expand-archive-n2ZIDvBP/Pod-Simple-3.35/lib/Pod/Simple/PullParserTextToken.pm
No license file was found, but licenses were detected in source scan.

# ChangeLog for Pod::Simple dist
#---------------------------------------------------------------
* Release 3.35
2016-11-29 Karl Williamson <khw@cpan.org>
Needed to 'make manifest' before uploading to CPAN. No changes beyond version bump

* Release 3.35
2016-11-29 Karl Williamson <khw@cpan.org>
Stabilize t/search50.t. Thanks to rurban for the patch!
Turn off utf8 warnings when trying to see if a file is UTF-8 or not.

* Release 3.33
No changes since 3.32.
2015-11-02  Marc Green <marcgreen@cpan.org>
* Release 3.32
Fixed failing tests on Windows. Thanks to A. Sinan Unur for the patch!

Switched debugging output from STDOUT to STDERR. Should rarely be used, but modules that do depend on debugging output might need to change how they handle it. Patch from Karl Williamson (GitHub Pull Request #76).

Added errata_seen() to make POD errors easily accessible. Thanks to Sean Zellmer for the pull request!

2015-08-23  Marc Green <marcgreen@cpan.org>
* Release 3.31
No changes since 3.30_1.

2015-07-19  Marc Green <marcgreen@cpan.org>
* Release 3.30_1
Simplified the detection of case-insensitivity in Pod::Simple::Search.

Fixed "Use of uninitialized value $1 in lc" warning in Pod::Simple::Search.

If @INC includes the current directory symbol, '.', the survey() method of Pod::Simple::Search no longer excludes it from its list of directories to search. Instead, the survey() and find() methods now both exclude duplicate directories from @INC (RT #102344).

Moved source repository and updated links to new perl-pod GitHub organization: https://github.com/perl-pod/pod-simple.

Improved repository links and added GitHub issue tracking link to the distribution metadata.

Switched from File::Spec's catdir to catfile for path names, to fix failures on VMS. Also now use Unix path semantics where they're not required to be platform-specific. Thanks to Craig A. Berry for the patch (RT #105511).

Improved the example use of the 'html_encode_chars()' method in the Pod::Simple::XHTML documentation. Patch from Randy Stauner.

2015-02-23  David E. Wheeler <david@justatheory.org>
* Release 3.30
No changes since 3.29_6.

2015-02-19  David E. Wheeler <david@justatheory.org>
* Release 3.29_6  
The survey() method in Pod::Simple::Search now ignores duplicate files with varying lettercasing on case-insensitive file systems. This allows

When pondering files in a given directory, the survey() method in Pod::Simple::Search now prefers files with extensions in the following order: no extension, .pod, .pm, .plx, .pl.

The find() method in Pod::Simple::Search now records the '.pod' subdirectory of each directory it considers in such a way as to preserve its case on the file system.

The find() method in Pod::Simple::Search now tries harder to find the proper file on case-insensitive file systems when searching for modules starting with "Pod". For example, when searching for 'Pod::Perldoc' it now returns a file ending in 'Pod/Perldoc.pm' instead of 'Pod/perldoc.pod', as the latter is actually the documentation for the 'perldoc' program.

2015-02-17 David E. Wheeler <david@justatheory.org>  
* Release 3.29_5  
No changes except that the release tarball should no longer be empty.

2015-02-16 David E. Wheeler <david@justatheory.org>  
* Release 3.29_4  
Removed "Caveats" from the docs. Pod::Simple has been out of beta for years.

The survey() method in Pod::Simple::Search no longer assumes that files ending in '.pod' are actually Pod. Like .pm and .pl files, .pod files must contain at least one valid POD command, as documented. This brings the behavior in line with find(), which already required that .pod files contain Pod.

The survey() method in Pod::Simple::Search now prefers files ending in .pod over those ending in .pm, and .pm over those ending in .pl, when it finds duplicate pod files for a given name.

2015-02-11 David E. Wheeler <david@justatheory.org>  
* Release 3.29_3  
Tightened up the first pass at recognizing a Pod command so that fewer invalid Pod lines will be recognized. Suggested by Randy Stauner.

Fixed bug where Pod::Simple would attempt to call utf8::unicode_to_native on Perl 5.6, where that function does not exist.
Typos and minor wordsmithing changes in Pod::Simple::Subclassing, thanks to Randy Stauner.

The Pod::Simple::Search survey() and find() methods now use the same code for determining @INC directories to search. The only difference is that find() also includes $Config::Config{'scriptdir'}.

2015-01-13   David E. Wheeler <david@justatheory.org>
* Release 3.29
NOTE: This will be the last release of Pod::Simple to support versions of Perl earlier than 5.6.

Fixed test failure for unsupported encoding on Perl 5.6.

Removed unnecessary dependency on constant. Reported by Petr Pisar (RT #85578).

Many documentation and comment typos fixed by David Steinbrunner.

Fixed issue when an encoding is declared via an '='encoding' directive *after* Pod::Simple has already detected an encoding. Thanks to Graham Knop for the patch and Patrice Dumas for the tests.

Added '>&STDERR' as an output to better emulate Pod::Parser::parse_from_file(). Florent Angly.

Tidied the description of the different Pod::Simple interfaces, with greater emphasis on the four different steps to subclassing. Florent Angly.

Added the 'top_anchor' attribute to Pod::Simple::HTML, to allow specification of a custom top anchor format. Gabor Szabo.

Fixed the text formatter to properly set the Text::Wrap overflow policy. Thanks to Nigel Metheringham for the fix!

Fixed mis-matched quotation marks when adding JavaScript elements to the XHTML output. Patch from jonathancast.

Fixed issues on EBCDIC. Patch from Karl Williamson (GitHub Pull Request #58).

Fixed bug where the value passed to Pod::Simple::XHTML’s html_css() method would be output twice. Thanks to Andrew Johnson for the report (RT #99303).

Documented the 'recurse' attribute of Pod::Simple::Search.
Thanks to Jim Keenan for the report (RT #91886).

An error is no longer thrown when ‘=encoding’ directives are found on subsequent lines. Instead, we now log a an error message, "Cannot have multiple =encoding directives" (RT #91757).

The HTML and XHTML formatters now do a better job of preserving lines in ‘begin html’ blocks. Fixes a bug that dates from 2002 (Perl RT#9385, CPAN RT #91851).

2013-05-04  David E. Wheeler <david@justatheory.org>
* Release 3.28

Removed use of 'done_testing' in t/white.t, which was added in v3.27. Thanks to Paul Howarth for the catch.

Fixed improperly calculated number of skipped tests in t/xhtml01.t when HTML::Entities is not installed.

2013-05-03  David E. Wheeler <david@justatheory.org>
* Release 3.27

Added new warnings as defined by Pod::Checker, thanks to RJBS:
+ "=over" without "=back"
+ "<L>" starts or ends with whitespace
+ raw "|" or "/" in "L.<text|link>" text

Added ->keep_encoding_directive, which is false by default, to prevent formatters from emitting a document's 'encoding' directive in most cases. That they emitted the encoding was a bug introduced in v3.26 (RT #84093). Now, only the DumpAsText and DumpAsXML formats set it to true. Patch from Patrice Dumas.

2013-02-27  David E. Wheeler <david@justatheory.org>
* Release 3.26

Fixed another test script to skip all tests when Encode is not installed.

Added 'encoding()' and 'detected_encoding()' to return the current encoding and the encoding actually to decode the input file. The value from "=encoding" is also now kept in the output tree. Patch from Patrice Dumas (RT #74390).

2013-02-16  David E. Wheeler <david@justatheory.org>
* Release 3.25

Improved the warning when "=item" types mismatch within one
"=over="/"=back" block.

2013-02-14  David E. Wheeler <david@justatheory.org>
* Release 3.24

Fixed corner case bug for unlikely scenario in which non-UTF-8
text could be parsed as UTF-8. Grant McLean.

XHTML IDs can no longer end with punctuation. Thanks to Smylers
for the patch.

Fixed test failure on Perl 5.6.2.

Changed the default installation location from "perl" to "site" on
5.12 and higher, since as of that version of Perl, dual-life
modules no longer need to be installed in "perl" to replace
in-core versions. Patch from tzccinct.

Fixed hash order dependency test failures on Perl 5.17. Thanks to
Yves Orton for the patch.

Inlined the code that tries to guess a Pod file's encoding. This
reduces the time Pod::Simple takes to build the core Perl
documentation by 15-20%. Thanks to Dagfinn Ilmari Mannsker for
the patch!

Added a warning when "=item" types mismatch within one
"=over="/"=back" block. Marc Green/Google Summer of Code, with
assist from RJBS.

Fixed regression introduced in 3.22 in which "C< >" tags were
incorrectly treated as verbatim text in table of contents items
emitted by Pod::Simple::XHTML. Thanks to Randy Stauner for the
report and to Thomas Sibley for the fix!

Loosened up the matching of "L< >" tags for man pages so that they
allow names with dots, underscores, and any other characters
other than "/", just so long as they end in "[(][[-a-zA-Z0-9]+][)]".
Thanks to Dave Rolsky and Kevin Ryde for the reports (RT #82975 &
RT #82972).

Fixed inverted mapping of "keyboard" to "kbd" in
Pod::Simple::HTML. Thanks to Robert Boisvert for the bug report
(RT #79201).

Added two new Tagmap entries to Pod::Simple::HTML: "preformat"
maps to "pre", and "teletype" maps to "tt". Suggested by Robert
Boisvert (RT #79201).
"X< >" tags are now ignored by the pull parser when it searches for titles, as is any trailing whitespace. Thanks to Patrice Dumas for the report (RT #74389).

2012-08-14   David E. Wheeler <david@justatheory.org>
* Release 3.23

Eliminated nested elements in table of contents (index) items output of Pod::Simple::XHTML. This was especially problematic for headers that included links, as the TOC then got nested anchor elements, which simply would not work. Thanks to Ben Bullock for the report and test case (RT #77686).

Fixed semantically invalid nested XHTML generated by Pod::Simple::XHTML since v3.21. Gisle Aas.

Improved support for nested "C< >" tags in Pod::Simple::XHTML. Gisle Aas.

No longer tries to decode a string with the "utf8" flag set, as the double-decoding only triggered an error. Grant McLean.

Added documentation note that the API expects encoded text (octets). Grant McLean.

Added "parse_characters()" option to specify that strings to are already decoded from octets into characters. Grant McLean.

2012-05-27   David E. Wheeler <david@justatheory.org>
* Release 3.22

Fix but where Pod::Simple would whine about non-ASCII bytes in code or comments. Now only does so for Pod (in the absence of an "=encoding" tag. Broken in 3.21. Grant McLean.

2012-05-23   David E. Wheeler <david@justatheory.org>
* Release 3.21

NOTE: COMPATABILITY CHANGE: The 'codes_in_verbatim' option in Pod::Simple::XHTML is no longer enabled by default. This brings it agreement with the other formatting classes, and eliminates unexpected behavior in XHTML-formatted Pod. Users who depended on this functionality can still get it by enabling 'codes_in_verbatim' in their code.

Fixed some typos in the documentation. Thanks to Jonathan Yu via the Debian packagers via Florian Ragwitz (RT #75532).
Now emit a warning the first time a non-ASCII byte is encountered when no "=encoding" has been seen. Grant McLean.

When a non-ASCII byte is encountered before an "=encoding" line has been seen, a heuristic (as described in perlpodspec) is applied to select UTF-8 encoding if the non-ASCII bytes form a valid UTF-8 byte sequence, or Latin-1 otherwise. Grant McLean.

Added 'handle_code' method to Pod::Simple::XHTML. This allows subclasses to override the handling of verbatim blocks, and makes for a more cohesive interface, to boot. Gisle Aas.

Subsequent text segments are now joined together and passed as a single unit to text handling code. This makes it easier for custom handlers to process complete blocks of text in a single call to 'handle_text', rather than in dribs and drabs. Gisle Aas.

Replaced naive text wrapping code in Pod::Simple::DumpAsXML with Text::Wrap, which was already used for similar purposes elsewhere in Pod::Simple. Gisle Aas.

2012-03-01   David E. Wheeler <david@justatheory.org>
* Release 3.20

Removed use of 'done_testing' in t/xhtml15.t, which was added in v3.19. Thanks to Paul Howarth for the catch.

Fixed quoting of links in a regular expression Pod::Simple::Text. Reported by Father Chrysostomos.

Fix test failure on case-insensitive, non-case-preserving file systems (VMS I'm looking at *you*). Patch from Craig A. Berry.

Pod::Simple::HTML no longer emits "href=#___top" if a TOC (index) is not output. Patch from Rick Myers.

Fixed links in the TOC of XHTML output to use IDs derived from encoded text, rather than raw Pod, so that it will link to the ID actually generated for the section. Thanks to Randy Stauner for the report (with test case!) (RT #72544).

PullParser now throws an exception on an attempt to set a source more than once. Necessary because data from the previous source will be cached, so the new source would be ignored anyway. Create a new PullParser, instead. Thanks to Paul Boldra for the report (RT #74265).
Fixed occasional test failure when tests are run in parallel (HARNESS_OPTIONS=j6:c). Thanks to Alexei Znamensky for the report and Marc Green for the fix.

Added "pod_handler" option. This is a callback that can be used to inspect the content on a "=pod" line. Marc Green/Google Summer of Code.

Added tests for proper line-ending parsing from the previous release. The tests were in the repository, but didn't make it into the MANIFEST or, therefore, the release. Reported by Marc Green.

Added the "parse_empty_lists" option. When enabled, Pod::Simple will recognize empty lists (that is, a blocks with '=over' and '=back' but nothing in between). Disabled by default. Marc Green/Google Summer of Code.

Added the "whiteline_handler" attribute. It's much like "code_handler", "cut_handler", and "pod_handler", except it's triggered on lines that contain only whitespace characters. Marc Green/Google Summer of Code.

Added "raw" attribute to L<> treelet that contains the L<>’s raw contents. Marc Green/Google Summer of Code.

Pod directives autoclosed by Pod::Simple are now denoted as such by the new "fake_closer" attribute. Marc Green/Google Summer of Code.

Fixed incompatibility with Pod::Simple::HTMLBatch in Pod::Simple::XHTML. Patch by Eric Johnson.
Documented tertiary methods. Patch from Shawn H Corey.

Added "backlink" option to Pod::Simple::XHTML. Thanks to Marc Green/Google Summer of Code for the pull request.

Typos fixed in Pod::Simple::HTMLBatch. Reported by Shawn H Corey.

Fixed quoting of value returned by a "strip_verbatim_indent()" code reference so that regex meta characters are properly escaped.

Added "anchor_items" option to Pod::Simple::XHTML. This allows text items (which are output as <dt> elements) to have IDs that can be referenced in the "#" part of a URL. Marc Green/Google Summer of Code.

Added "recurse" option to Pod::Simple::Search. It's enabled by default; disable it to turn off recursion into subdirectories. Marc Green/Google Summer of Code.

Added documentation to clarify the behavior of the "content_seen" method. Thanks to Olaf Alders for the pull request.

2011-03-14   David E. Wheeler <david@justatheory.org>
* Release 3.16

Fixed invalid HTML generated for nested lists by Pod::Simple::XHTML (Fitz Elliott).

Replaced the invalid "<nobr>" tag -- created for "S<>" -- with '<span style="white-space: nowrap;">' (Fitz Elliott).

Fixed some nerbles in our own Pod (Michael Stevens)

Improved the "Minimal code" example in Pod::Simple::HTML. The key is to use pase_file(), not parse_from_file() (which should otherwise be undocumented, and is just there for Pod::Parser compatibility. Thanks to prodding from var Arnfrj Bjarmason (RT #65428).

Added the html_charset() and html_encode_chars() attributes to Pod::Simple::XHTML. Inspired by a bug report from Agent Zhang () (RT #29587).

Added "Minimal code" example to the Pod::Simple::XHTML documentation.

Fixed mispelling of the "=encoding" markup in the parser (it was spelled "=encode"). Thanks to "TTY" for the patch. (RT #24820).
2010-11-11  David E. Wheeler <david@justatheory.org>
* Release 3.15

Removed "perlpod.pod" and "perlpodspec.pod". These now just live in the Perl core.

Fixed stylesheet names output by HTMLBatch to match the names of the actual stylesheet files (broken in 3.09). Thanks to Kevin Ryde for the report (RT #56725).

Added missing closing slash to the CSS links in the XHTML output. Thanks to HarleyPig for the patch!

Added parens around bar "qw(...)" in t/xhtml05.t. Thanks to Jerry D. Hedden for the patch.

Improved the Pod::Simple::HTML docs. Thanks to Gabor Szabo for the patch.

Pod::Simple::XHTML now properly encodes entities in URLs in the anchor tag. Thanks to John McNamara for the report (RT-60249).

Pod::Simple::HTML and XHTML now strip whitespace from the end of section names that appear as anchor names for headers (in HTML) and IDs (in XHTML). Such whitespace appeared when "X<>" entities were stripped out but not the space between them (RT-56572).

Make test "t/search50.t" always pass on case-insensitive file systems rather than just skip VMS.

2009-04-27  
* Release 3.14

Removed explicit loading of UNIVERSAL. RJBS.

Reversed the change applied in release 3.09 to fix RT #12239. POD tag found inside a complex POD tag (e.g., "C<<< I<foo> >>>") is again parsed as a tag embedded in a tag instead of text and entities. The previous interpretation of `perldoc perlpod` was mistaken. (RT #55602 from Christopher J. Madsen).

2009-12-17  David E. Wheeler <david@justatheory.org>
* Release 3.13

Removed deleted test file from MANIFEST.

2009-12-17  David E. Wheeler <david@justatheory.org>
* Release 3.12
Removed "All rights reserved" from all files.

Added acknowledgements to man.he.net and search.cpan.org for permission to link man pages and Perl module links to their sites in the output of Pod::Simple::HTML and Pod::Simple::XHTML.

Add "html_h_level" option to Pod::Simple::XHTML and ::HTML to allow a =head1 to become an <h2> and so on. RJBS.

Add batch_mode_page_object_init() method to Pod::Simple::XHTML. This allows it to be used by Pod::Simple::HTMLBatch.

Fixed a regression in Pod::Simple::XHTML where '=begin html' blocks were incorrectly escaped rather than simply passed through unmolested. RJBS.

Removed the undocumented "fullstop_space_harden" attribute, which apparently was only used by Pod::Text a very long time ago.

2009-12-09   David E. Wheeler <david@justatheory.org>
* Release 3.11

Restored code to HTMLBatch that allows the TOC (index) to be created in batch jobs (RT #52324 from Martin J. Evans).

Added resources to META.yml, including bug tracker, license, and repository.

Turned man page links into links to man.he.net in Pod::Simple::HTML and Pod::Simple::XHTML output. Subclass and override resolve_man_page_link() to use a different URL.

Added the resolve_pod_page_link() and resolve_man_page_link() methods to Pod::Simple::XHTML to make it easier for subclasses to change the URLs created for POD and man page links.

Fixed the output of entities in L<> tags by Pod::Simple::XHTML.

Fixed the output of POD links from Pod::Simple::XHTML so that the section part (/foo) is turned into a proper fragment identifier (#foo) in the resulting search.cpan.org link.

Pod::Simple::Text now outputs URLs for links created in the L<text|URL> format. For example, L<Perl|http://perl.org> is now output as "Perl <http://perl.org>" rather than just as "Perl".

Updated perlpod.pod and perltypspec.pod to sync up with Perl core.
Open Source Used In Cisco VIM 4.2.0 4781

(and to be released in Perl 5.12). Changes include:
* Removing the prohibition against L{text|href}
* Deprecation of L<section> and L"section"
* Legalization of ":begin formatname parameter"

A couple of bug fixes in Pod::Simple::HTML from Graham Barr.

Added the do_section() method to Pod::Simple::HTML. Graham Barr.

Word-smithed the "DESCRIPTION" a bit and wrote the README.

Synced up all module version numbers to 3.11 except for Pod::Simple::HTML::Legacy, which is at 5.01 and should not have its version number lowered.

2009-11-12   David E. Wheeler <david@justatheory.org>
* Release 3.10

Converted test files that had DOS endings to have Unix endings (RT #50922 from Steve Hay).

Skip tests on VMS where the lack of filename case preservation can wreak havoc (RT #51184 from Craig A. Berry).

Fix nested definition list format in the XHTML output (RT #51187 from Lars D).

Added some files missing from the MANIFEST (and therefore the distribution) in the last two releases.

2009-10-27   Allison Randal <allison@perl.org>
* Release 3.09

Add support for an index (TOC) in the XHTML output from David E. Wheeler.

Add strip_verbatim_indent() from David E. Wheeler.

Added the "nocase" option to PullParser's get_title(),
get_version(), get_description(), and get_author() methods. This allows one to fetch the contents of those sections regardless of the case of the labels (e.g., "NAME" and "Name" and "name" are all valid). Graham Barr.

Added the search_class() accessor to Pod::Simple::HTMLBatch.
David E. Wheeler.

XHTML output now properly encodes entities in all places, not just
in verbatim blocks and code spans. David E. Wheeler.

Fixed XHTML to output definition lists when it should, rather than (broken) unordered lists. David E. Wheeler.

Fixed XHTML so that multiparagraph list items work correctly. David E. Wheeler.

Fixed XHTML ordered list output so that it does not include the number specified in the POD in the output. This is on a par with out the HTML output works. David E. Wheeler.

Applied URL patch from Leon Brocard for The Perl Journal archives.

Fixed test failures with older versions of HTML::Entities (RT #43903 from Salvador Tercia).

Changed CSS files generated by HTMLBatch to be no more than 8.3 characters long. (RT #40450 from Renee Baecker)

Added entity handling for E<sol> and E<verbar> to Pod::Simple::XHTML. (RT #49615 from Chas Owens.)

Fixed a bug in Pod::Simple::HTML where a definition term item with no corresponding definition item would be output with no closing </a></dt>. (RT #37107 from Kevin Ryde).

Added entity handling for numeric entities to Pod::Simple::XHTML, following perlpod specification.

A POD tag found inside a complex POD tag (e.g., "C<<< C<foo> >>>") is now properly parsed as text and entities instead of a tag embedded in a tag. This is in compliance with `perldoc perlpod` (RT #12239 from Michael Schwern).

Thanks to David E. Wheeler for applying patches, resolving bugs, and generally getting ready for the release.

2009-07-16 Allison Randal <allison@perl.org>
* Release 3.08

Fix installdirs for Perl versions where Pod::Simple was core; RT#36446 & RT#39709, thanks to Jerry Hedden.

Fix encoding handling for code in paragraphs; RT#45829, thanks to David Wheeler.

2008-06-04 Allison Randal <allison@perl.org>
* Release 3.07

Fix module dependencies, make HTML::Entities optional and require Test::More.

2008-06-03 Allison Randal <allison@perl.org>

* Release 3.06

Fix bugs related to passing $1 to File::Spec, reported by Andrew Hamlin and John McNamara.

Applied a suggested fix from Kevin Ryde to return a successful exit code when Pod::Simple::HTML is run from the command line.

Fix handling of complex L<URL> entries, thanks to tests supplied in RT#4896.

Fix incorrect handling of S<> entries made up of entirely whitespace, thanks to test case from Andreas Koenig.

Launch Pod::Simple::XHTML, an XHTML compliant, more easily extensible HTML formatter.

Add feature to parse additional text after =begin target as a block title, requested by Adam Kennedy.

Thanks to Hans Dieter Pearcey for applying patches, resolving bugs, and generally getting ready for the release.

2007-03-03 Allison Randal <allison@perl.org>

* Release 3.05

Standardized all test files on 8.3 naming scheme for Perl core.

Applied test patches from Jerry Hedden for Perl core when Encode not installed.

Applied test patch from Ken Williams for 5.005_04 compatibility.

Applied a patch from Christopher Madsen to fix architecture directory searches on Gentoo.

Fixed a failing search test on Debian-based distributions caused by Debian stripping Pod documentation out of core modules.
(Three cheers to the CPAN testers and James Ponza for sending enough reports that I could work out the pattern.)

2006-01-18 Allison Randal <allison@perl.org>

* Release 3.04
Applied test patches for Perl core integration from Steve Peters.

Added a 'reinit' method to Pod::Simple::BlackBox for Russ Allbery so Pod::Man can provide backward compatibility to existing users (such as Module::Build and ExtUtils::MakeMaker).

Applied patch for extracting case-preserved package names on VMS from Craig Berry.

2005-11-21  Allison Randal <allison@perl.org>
* Release 3.03

Applied whitespace patches for Pod::Man and Pod::Text from Russ Allbery.

Applied validation patches to Pod::Simple::HTML from Graham Barr.

2004-05-24  Sean M. Burke <sburke@cpan.org>
* Release 3.02

Just fixing some typos in the CSS generated by Pod::Simple:HTMLBatch.

2004-05-24  Sean M. Burke <sburke@cpan.org>
* Release 3.01

No big changes to the main modules, but there's many changes to the important Pod::Simple::HTML module.

Also, new modules:
    Pod::Simple::HTMLBatch
    Pod::Simple::HTMLLegacy
    Pod::Simple::Progress
    Pod::Simple::Search
and tests for these (well, most).

Some prettying up of the Makefile.PL.

The test 00about.t is a bit more careful and verbose now.

The docs are still incomplete, esp. for Pod::Simple::HTML and Pod::Simple::HTMLBatch, which I hope to improve quite soon.

2004-05-07  Sean M. Burke <sburke@cpan.org>
* Release 2.06
Allison Randal brilliantly refactors a huge monolithic sub in Blackbox.pm. Code is now actually sanely readable!

I add the new option-attributes fullstop_space_harden and codes_in_verbatim, and the two methods abandon_output_string and abandon_output_fh. Not yet documented.

New test fullstop_spaces.t and new corpus document greek_iso_8859_7.pod.

Another version should be forthcoming in a few days that has the new Pod::Simple::HTML stuff in it.

Note to self: document =extend and =encoding in perlpodspec ASAP!

2003-11-04  Sean M. Burke <sburke@cpan.org>
* Release 2.05 -- bugfix version

In an attempt to stop Perl 5.6 versions from going completely crazy, I’ve tried to basically turn off all Unicode/utf8 support under 5.6. Under 5.8 and above, Unicode should work fine, and under 5.6, all Unicode characters should be replaced with a little "can't render" symbol, either a "" or a "?".

Many many thanks to Jarkko Hietaniemi for helping out.

(Works under 5.005 now too?)

2003-10-10  Sean M. Burke <sburke@cpan.org>
* Release 2.04 -- minor bugfix version

* Added some code to insulate Pod::Simple to runtime changes in the value of $/. Thanks to Iain Truskett for catching this.
* Added FILENO method to TiedOutFH.pm, to work quietly under some perls. Thanks to Jochen Stenzel for catching this.
* Fixed some tests that erroneously failed under some 5.6's because of chdir()s in *.t files messing up @INC Thanks to many who caught this, including Rocco Caputo.

2003-09-07  Sean M. Burke <sburke@cpan.org>
* Release 2.03 -- minor upgrade
* A =head[1234] command now closes any currently open =over, and warns.
* Fixing a few obscure bugs, including one to do with the Makefile.
* Added some tests for those bugs.

2003-09-02  Sean M. Burke <sburke@cpan.org>
* Release 2.02 -- fixing a testing bug
* Autrijus Tang found a silly bug of mine in corpustest.t's
  testing of corpus/t/nonesuch.txt. Fixed,
* I add encoding_nonesuch.t to test corpus/t/nonesuch.txt better.

2003-09-01  Sean M. Burke <sburke@cpan.org>
* Release 2.01
* Moved all version numbers up to 2.01 for reasons of Tibetan
  numerology.

* Implemented =encoding. Thanks a million to Jarkko, Autrijus,
  Dan Kogai, and many others for their help, patience, and
  encouragement.

It's not yet documented, but see ./t/corpus/*.txt for examples at
least.

* Added 'use utf8' to all the modules. Byebye perl-5.005
  compatibility, hello decent perl-5.6 compatibility.

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2003-09-01  Sean M. Burke <sburke@cpan.org>
* Release 0.98
* At Michael Schwern's suggestion, a list that begins with a
  "=item [number]" line where number isn't a 1, is no longer
  treated as an error, but instead is silently coerced into being a
  text-item list, just as if it were "=item wubble" or whatever.

2003-08-12  Sean M. Burke <sburke@cpan.org>
* Release 0.97
* Looooking gooooooood. Not smelling so much like beta anymore!
* I think this might be the last version before I go
  putting "use utf8" all over the place.

* Added placefolders for "=encoding" support. If you use
  "=encoding", you'll get an error about "not yet implemented"
  instead of "unknown directive".

* Rewrote Pod::Simple::Pullparser's get_title, and added
  get_version, get_author, and get_description. Documented them.
  Thanks to Graham Barr for contributing an initial get_title and
  then being patient while I seemed to do nothing with it for months
  on end!

* More tests.
Otherwise just minor changes since last version:
* Fixed error in Pod::Simple::RTF.
* Added new but undocumented methods to Pod::Simple:
  unaccept_directive(s) unaccept_target(s) unaccept_code(s)
* Corrected ‘=back without =open’ error to ‘=back without =over’
* A little tweaking to the _verbatim_format code.
* Dump routines may use \x{NN} instead of \xNN format.
* Pod::Simple::HTML now uses VerbatimFormatted
* A few changes of DEBUG messages -- nothing you'd normally see.

2002-11-19 Sean M. Burke <sburke@cpan.org>
* Release 0.96
* Still kinda sorta beta.

* Much much more docs in this version. Only a few feature changes:

  * Added any_errata_seen to Pod::Simple. Should've been in there ages ago. Oops!
  * Fixed some errors in the experimental VerbatimFormatted code.
  * Added is_tagname / is_tag to Pod::Simple::PullParserStartToken and Pod::Simple::PullParserEndToken
  * Added RTFDEFLANG stuff to Pod::Simple::RTF.

2002-11-10 Sean M. Burke <sburke@cpan.org>
* Release 0.95
* Beta release. Much documentation still to write, many features still to add. The APIs might change in future versions.

* Now including perlpod and perlpodspec in the dist.

  * Pod::Simple -- added parse_from_file
  * Pod::Simple::RTF -- minor style changes, and minor change to the RTF-wrapping logic.
  * Pod::Simple::BlackBox -- a =cut opening a block is no longer a fatal(ish) error.
  * Pod::Simple::BlackBox -- added experimental new VerbatimFormatted stuff.

2002-10-16 Sean M. Burke <sburke@cpan.org>
* Release 0.94
* Beta release. Much documentation still to write, many features still to add. The APIs might change in future versions.

* Pod::Simple::RTF -- minor style tweaks
* Pod::Simple::PullParserEndToken and ::PullParserStartToken -- added ->tag as an alias for ->tagname.
* Pod::Simple and Pod::Simple::BlackBox -- added tolerance for
  "=item * Foo" as a variant syntax for "=item *\n\nFoo". Tests
  added/changed accordingly.
* Pod::Simple::HTML -- added <a name="..."> stuff, and a hack at
done something with X<...>'s.

2002-09-29  Sean M. Burke <sburke@cpan.org>
* Release 0.93
* Beta release. Much documentation still to write, many features
  still to add. The APIs might change in future versions.

* Pod::Simple -- added errors_seen attribute
* Pod::Simple::HTML -- added support for =for HTML ... directives,
  and =extend directives.
* Oh, and I added Pod::Simple::RTF in 0.92 but forgot to note it
  until now.

2002-09-29  Sean M. Burke <sburke@cpan.org>
* Release 0.92
* Beta release. Much documentation still to write, many features
  still to add. The APIs might change in future versions.

* Fixing bungled distribution.

2002-09-29  Sean M. Burke <sburke@cpan.org>
* Release 0.91
* Beta release. Much documentation still to write, many features
  still to add. The APIs might change in future versions.

* Pod::Simple::PullParserTextToken -- added 'text_r'

* Pod::Simple::PullParser -- added 'get_title' and
  'get_title_short' to

* Pod::Simple -- corrected wording of "Format for second =extend
  parameter" error message.

* Pod::PullParser -- made its filter() run as intended, like
  Pod::Simple's filter.

* Pod::Subclassing -- more docs

2002-09-11  Sean M. Burke <sburke@cpan.org>
* Release 0.90
* Beta release. Much documentation still to write, many features
  still to add. The APIs might change in future versions.
=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

Questions or discussion about POD and Pod::Simple should be sent to the
pod-people@perl.org mail list. Send an empty email to
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) 2002-2004 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 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/cola/permits/1162152397_1620791150.94/0/perl-Pod-Simple-3.35-395.el8-1.src.rpm-cosi-expand-archive-CoUzHpTZ/Pod-Simple-3.35.tar.gz-cosi-expand-archive-n2ZIDvBP/Pod-Simple-3.35/lib/Pod/Simple/XMLOutStream.pm

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

=head1 NAME

Pod::Simple::Search - find POD documents in directory trees
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-UA docs = ",
     Pod::Simple::Search->new->find('LWP::UserAgent') || "?",
     "n";

=head1 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.

=head1 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->I<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:

```perl
my $search = Pod::Simple::Search->new;
$search->inc(0);
$search->verbose(1);
$search->callback(&blab);
my $name2path = $search->survey(@there);
```

This attribute, if set to a true value, means that searches should implicitly add Perl's `@INC` paths. This automatically considers paths specified in the `PERL5LIB` environment as this is prepended to `@INC` by the Perl interpreter itself. This attribute's default value is `TRUE`. If you want to search only specific directories, set `$self->inc(0)` before calling `$inc->survey` or `$inc->find`.

```perl
=item $search->inc( I<true-or-false> );
```

This attribute, if set to a nonzero positive value, will make searches output (via `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 `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.)

```perl
=item $search->verbose( I<nonnegative-number> );
```

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").

```perl
=item $search->limit_glob( I<some-glob-string> );
```

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.

This attribute's default value is false, meaning that no callback
is called.

=item $search->laborious( I<true-or-false> );

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.

=item $search->recurse( I<true-or-false> );

Unless you set this attribute to a false value, Pod::Search will
recurse into subdirectories of the search directories.

=item $search->shadows( I<true-or-false> );

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 C<somepathdir/Foo/Bar.pm> already in this
search, then it won't bother looking at a C<somelaterpathdir/Foo/Bar.pm>
later on in that search, because that file is merely a "shadow". But if
you turn on C<< $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.

=item $search->limit_re( I<some-regexp> );

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
C<limit_glob> attribute is used instead.
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

C<< $search->limit_glob("File::Find::R*") >>

is the same as the combination of the search options

C<< $search->limit_re("^File::Find::R") -> dir_prefix("File::Find") >>.

Normally you don't need to know about the C<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.)

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 C<reach> method and a C<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 C<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 C<reach> and C<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.

This attribute is not a search parameter, but is used to report the result of C<survey> method, as discussed in the next section.
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.

=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>

A hash that maps from each pod-name to the filespec (like "Stuff::Thing" => "/whatever/plib/Stuff/Thing.pm")

=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 C<< $search->find( $pod ) >>

=head2 C<< $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 (e.g. '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 pod subdirectory, then it is searched. (That's how we manage to find perlfunc, for example, which is usually in pod/perlfunc in most Perl dists.)

The verbose and inc attributes influence the behavior of this search; notably, inc, if true, adds @INC and also $Config::Config{'scriptdir'} to the list of directories to search.

It is common to simply say $filename = Pod::Simple::Search->new->find("perlvar") so that just the @INC (well, and scriptdir) directories are searched. (This happens because the 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.

=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.

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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> 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:

=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/cola/permits/1162152397_1620791150.94/0/perl-Pod-Simple-3.35-395.el8-1.src.rpm-cosi-expand-archive-CoUzHpTZ/Pod-Simple-3.35.tar.gz-cosi-expand-archive-n2ZiDvBP/Pod-Simple-3.35/lib/Pod/Simple/Search.pm
No license file was found, but licenses were detected in source scan.

---

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:
  bugtracker: https://github.com/perl-pod/pod-simple/issues
  homepage: http://search.cpan.org/dist/Pod-Simple/
  license: http://dev.perl.org/licenses/
  repository: git://github.com/perl-pod/pod-simple.git
  version: '3.35'
x_serialization_backend: 'CPAN::Meta::YAML version 0.012'

Found in path(s):
* /opt/cola/permits/1162152397_1620791150.94/0/perl-Pod-Simple-3.35-395.el8-1.src.rpm-cosi-expand-archive-CoUzHpTZ/Pod-Simple-3.35.tar.gz-cosi-expand-archive-n2ZIDvBP/Pod-Simple-3.35/META.yml
No license file was found, but licenses were detected in source scan.

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Text>, L<Pod::Spell>

=head1 SUPPORT

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=head1 ACKNOWLEDGEMENTS

Thanks to L<Hurricane Electric|http://he.net/> for permission to use its L<Linux man pages online|http://man.he.net/> site for man page links.

Thanks to L<search.cpan.org|http://search.cpan.org/> for permission to use the site for Perl module links.

=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.

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=over

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=item * Hans Dieter Pearcey <hdp@cpan.org>

=item * David E. Wheeler <d wheeler@cpan.org>

=back

=cut

Found in path(s):
* /opt/cola/permits/1162152397_1620791150.94/0/perl-Pod-Simple-3.35-395.el8-1.src.rpm-cosi-expand-archive-
CoUzHpTZ/Pod-Simple-3.35.tar.gz-cosi-expand-archive-n2ZJIDvBP/Pod-Simple-3.35/lib/Pod/Simple/XHTML.pm
No license file was found, but licenses were detected in source scan.

=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" thingy.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> );

These methods set the size (in half-points, like 52 for 26-point) that these heading levels will appear as.

=item $parser->header_halfpoint_size( I<halfpoint_integer> );

This method sets the size (in half-points, like 21 for 10.5-point) that codeblocks ("verbatim sections") will appear as.

=item $parser->header_halfpoint_size( I<halfpoint_integer> );

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>".
=item $parser->normal_halfpoint_size( I<halfpoint_integer> );

This method sets the size (in half-points, like 26 for 13-point) that normal paragraphic text will appear in.

=item $parser->no_proofing_exemptions( I<true_or_false> );

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.

=item $parser->doc_lang( I<microsoft_decimal_language_code> )

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)

=back

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>

=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.

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* /opt/cola/permits/1162152397_1620791150.94/0/perl-Pod-Simple-3.35-395.el8-1.src.rpm-cosi-expand-archive-CoUzHpTZ/Pod-Simple-3.35.tar.gz-cosi-expand-archive-n2ZlDvBP/Pod-Simple-3.35/lib/Pod/Simple/RTF.pm

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

License: GPL+ or Artistic

---
Found in path(s):
* /opt/cola/permits/1162152397_1620791150.94/0/perl-Pod-Simple-3.35-395.el8-1.src.rpm-cosi-expand-archive-CoUzHpTZ/perl-Pod-Simple.spec
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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=back
=cut

Found in path(s):
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  CoUzHpTZ/Pod-Simple-3.35.tar.gz-cosi-expand-archive-n2ZlDvBP/Pod-Simple-3.35/lib/Pod/Simple/DumpAsXML.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:

=item 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
(""").

=item 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 => 1);

If the title can't be found, then get_short_title returns empty-string
("").

=item $author_name = $parser->get_author

This works like get_title except that it returns the contents of the
"=head1 AUTHOR\n\nParagraph...\n" section, assuming that that section
isn't terribly long. To recognize a "=head1 Author\n\nParagraph\n" section, pass the C<nocase> option:

$parser->get_author(nocase => 1);

(This method tolerates "AUTHORS" instead of "AUTHOR" too.)

=item $description_name = $parser->get_description

This works like get_title except that it returns the contents of the
"=head1 DESCRIPTION\n\nParagraph...\n" section, assuming that that section
isn't terribly long. To recognize a "=head1 Description\n\nParagraph\n" section, pass the C<nocase> option:

$parser->get_description(nocase => 1);
This works like get_title except that it returns the contents of the "=head1 VERSION

[BIG BLOCK]
" block. Note that this does NOT return the module's C<$VERSION>!! To recognize a "=head1 Version

[ BIG BLOCK ]
" section, pass the C<nocase> option:

$parser->get_version(nocase => 1);

=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 $pattern = "";
if( #$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" }
}

Open Source Used In Cisco VIM 4.2.0 4812


Found in path(s):
* /opt/cola/permits/1162152397_1620791150.94/0/perl-Pod-Simple-3.35-395.el8-1.src.rpm-cosi-expand-archive-CoUzHpTZ/Pod-Simple-3.35.tar.gz-cosi-expand-archive-n2ZlDvBP/Pod-Simple-3.35/lib/Pod/Simple/PullParser.pm

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

=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
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=item * David E. Wheeler C<dwheeler@cpan.org>

=back

=cut

Found in path(s):
* /opt/cola/permits/1162152397_1620791150.94/0/perl-Pod-Simple-3.35-395.el8-1.src.rpm-cosi-expand-archive-
  CoUzHpTZ/Pod-Simple-3.35.tar.gz-cosi-expand-archive-n2ZIDvBP/Pod-Simple-3.35/lib/Pod/Simple/Checker.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

perfaq3 - Programming Tools ($Revision: 1.38 $, $Date: 1999/05/23 16:08:30 $)

=head1 DESCRIPTION

This section of the FAQ answers questions related to programmer tools
and programming support.

=head2 How do I do (anything)?

Have you looked at CPAN (see L<perfaq2>)? 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
How can I use Perl interactively?

The typical approach uses the Perl debugger, described in the perldebug(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 L<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 I<awk> and I<C>.

Have you tried the Perl debugger, described in L<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.

=head2 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:

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.

=head2 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 -MO=Xref[,OPTIONS] scriptname.plx
```

=head2 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 L<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:

```
set ai sw=4
map! ^O {'^M}'^O'T
```

Now put that in your F<.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 I<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.

=head2 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.

=head2 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:

=over 4

=item CodeMagicCD

http://www.codemagiccd.com/

=item 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)).

=item The Object System

(http://www.castlelink.co.uk/object_system/) is a Perl web applications development IDE.

=item PerlBuilder

(http://www.solutionsoft.com/perl.htm) is an integrated development environment for Windows that supports Perl development.

=item Perl code magic

(http://www.petes-place.com/codemagic.html).

=item visiPerl+

http://helpconsulting.net/visiperl/, from Help Consulting.

=back

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
over 4

item GNU Emacs

http://www.gnu.org/software/emacs/windows/ntemacs.html

item MicroEMACS

http://members.nbci.com/uemacs/

item XEmacs

http://www.xemacs.org/Download/index.html

back

or a vi clone such as

over 4

item Elvis


item Vile

http://vile.cx/

item Vim

http://www.vim.org/

win32: http://www.cs.vu.nl/%7Etmgil/vi.html

back

For vi lovers in general, Windows or elsewhere:

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:
=over 4

=item Codewright

http://www.starbase.com/

=item MultiEdit


=item SlickEdit

http://www.slickedit.com/

=back

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

=over 4

=item Bash

from the Cygwin package (http://sources.redhat.com/cygwin/)

=item 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/)

=item Tcsh

ftp://ftp.astron.com/pub/tcsh/, see also
http://www.primate.wisc.edu/software/csh-tcsh-book/

=item Zsh

ftp://ftp.blarg.net/users/amol/zsh/, see also http://www.zsh.org/

=back
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).

=item BBEdit and BBEdit Lite

are text editors for Mac OS that have a Perl sensitivity mode (http://web.barebones.com/).

=item 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/).

=head2 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.

=head2 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 C<"main'foo"> (single quote), and mess up the indentation and highlighting. You are probably using C<"main::foo"> in new Perl code anyway, so this shouldn't be an issue.

=head2 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 B<rep ps axu> similar to B<top>.

=head2 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/.


=head2 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.

=head2 What is undump?

See the next question on "How can I make my Perl program run faster?"

=head2 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 lib<lib.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 F<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 F<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.

=head2 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 F<INSTALL> file in the source
distribution. You can find out whether you are using perl's malloc by
typing C<perl -V:usemymalloc>.

=head2 Is it unsafe to return a pointer to local data?

No, Perl's garbage collection system takes care of this.

    sub makeone {
        my @a = ( 1 .. 10 );
        return \@a;
    }

    for $i ( 1 .. 10 ) {
        push @many, makeone();
    }

    print $many[4][5], "\n";

    print "@many\n";

=head2 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, C<undef
Sscalar> 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.

=head2 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 B<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.

=head2 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.

=head2 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.

=head2 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.

=head2 How can I get C<#!perl> to work on [MS-DOS,NT,...]?

For OS/2 just use

extproc perl -S -your_switches

as the first line in C<*.cmd> file (C<-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 C<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 C<.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 \texttt{.pl} with the interpreter, NT people can use: \texttt{SET PATHEXT=\%PATHEXT\%;.PL} to let them run the program \texttt{install-linux.pl} merely by typing \texttt{install-linux}.

Macintosh Perl programs will have the appropriate Creator and Type, so that double-clicking them will invoke the Perl application.

\texttt{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.

=head2 Can I write useful Perl programs on the command line?

Yes. Read \texttt{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. :-)

=head2 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 single-quotes to double ones, which you must \texttt{NOT} do on Unix or Plan9 systems. You might also have to change a single \% to a \%\%.

For example:
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 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.]

=head2 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

=head2 Where can I learn about object-oriented Perl programming?

A good place to start is L<perltoot>, and you can use L<perlobj>,
L<perlboot>, and L<perlbot> for reference. Perltoto didn't come out
until the 5.004 release; you can get a copy (in pod, html, or

=head2 Where can I learn about linking C with Perl? [h2xs, xsubpp]

If you want to call C from Perl, start with L<perlxstut>,
moving on to L<perlxs>, L<xsubpp>, and L<perlguts>. If you want to
call Perl from C, then read L<perlembed>, L<perlcall>, and
L<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.

=head2 I've read perlembed, perl guts, 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 L<perlbug> and send a bug report with the output of
C<make test TEST_VERBOSE=1> along with C<perl -V>.

=head2 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 L<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;

=head2 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 L<ExtUtils::MakeMaker>.

=head1 AUTHOR AND COPYRIGHT

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Found in path(s):
* /opt/cola/permits/1162152397_1620791150.94/0/perl-Pod-Simple-3.35-395.el8-1.src.rpm-cosi-expand-archive-CoUzHpTZ/Pod-Simple-3.35.tar.gz-cosi-expand-archive-n2ZIDvBP/Pod-Simple-3.35/t/perlfaq.pod

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=head1 NAME

Pod::Simple::Text -- format Pod as plaintext

=head1 SYNOPSIS

    perl -MPod::Simple::Text -e \
        "exit Pod::Simple::Text->filter(shift)->any_errata_seen" \ 
        thingy.pod

=head1 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.

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::TextContent>, L<Pod::Text>

=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

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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

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Pod::Simple is maintained by:

=over

=item * Allison Randal <allison@perl.org>

=item * Hans Dieter Pearcey <hdp@cpan.org>


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

=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 \n 'print Dumper(Pod::Simple::SimpleTree->new->parse_file(shift)->root)" \n ptest.pod

$VAR1 = [ 
  'Document', 
  { 'start_line' => 1 }, 
  [ 
    'head1', 
    { 'start_line' => 1 }, 
    'PIE' 
  ], 
  [ 
    'Para', 
    { 'start_line' => 3 }, 
    'I like ', 
    [ 
      'B', 
      { }, 
      'pie' 
    ], 
    '!' 
  ];
=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...> ]>

=head1 SEE ALSO

L<Pod::Simple>

L<perllool>

L<The "Tree" subsubsection in XML::Parser|XML::Parser/"Tree">

=head1 SUPPORT

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pod-people@perl.org mail list. Send an empty email to
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=cut

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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/([^\-\.:\=\?\+\<\>\"\'/\}]\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\}\]\}\]\}\]\}\]\}\]\}\]\}\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\}\]\}\]\}\]\}\]\}\]\}\]\}\}\]\}\]\}\]\}\]\}\}\]\}\}\]\}\]\}\]\}\]\}\]\}\]\}\}\]\}\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\}\]\}\]\}\]\}\]\}\}\]\}\]\}\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\}\}\]\}\]\}\]\}\]\}\]\}\]\}\}\]\}\]\}\}\}\]\}\]\}\}\]\}\}\]\}\]\}\]\}\]\}\}\}\}\]\}\]\}\]\}\}\]\}\]\}\}\}\}\]\}\}\}\}\]\}\]\}\]\}\}\]\}\]\}\}\]\}\]\}\]\}\]\}\}\}\}\]\}\]\}\]\}\]\}\}\]\}\}\]\}\]\}\}\]\}\]\}\}\}\}\]\}\}\]\}\]\}\]\}\]\}\]\}\}\]\}\]\}\}\]\}\}\]\}\}\]\}\}\}\}\}\}\}\]\}\}\]\}\}\]\}\}\}\]\}\}\}\]\}\]\}\]\}\]\}\]\}\]\}\}\}\}\]\}\}\}\}\]\}\]\}\}\}\]\}\]\}\]\}\}\}\]\}\}\]\]\}\]\}\]\}\}\]\}\}\}\}\}\}\}\}\}\}\}\}\]\}\]\}\}\}\}\}\}\}\}\}\}\}\]\]\}\]\}\]\}\]\}\]\}\]\}\}\]\}\}\}\]\}\}\]\}\}\]\}\}\}\}\]\}\]\}\]\}\]\}\}\}\}\}\}\]\}\]\}\}\}\}\]\}\}\]\}\}\]\}\}\}\}\}\}\}\}\}\}\}\}\}\]\}\]\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\]\]\}\]\}\}\]\}\}\]\}\]\}\]\}\]\}\}\]\}\}\}\]\}\}\]\}\]\}\}\}\]\}\}\}\]\}\}\}\}\}\]\}\}\}\}\]\}\}\]\}\]\}\]\}\}\}\}\]\}\]\}\}\}\]\}\}\}\]\}\}\}\]\}\}\}\}\}\}\}\]\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\]\}\]\}\]\}\]\}\]\}\]\}\]\}\}\]\}\]\}\]\}\]\}\}\]\}\]\}\}\]\}\]\}\]\}\}\}\]\}\}\}\}\]\}\}\}\]\}\}\}\}\}\]\}\]\}\}\}\}\}\}\}\}\}\}\]\}\]\}\]\}\]\}\}\}\}\}\]\}\}\]\}\]\}\]\}\}\}\]\}\}\]\}\}\}\]\}\]\}\]\}\}\}\}\]\}\}\}\]\}\}\]\}\}\}\}\}\}\}\}\}\}\]\}\}\}\}\}\}\}\}\]\}\}\}\}\}\}\]\}\}\]\}\}\]\}\}\}\}\]\}\}\}\}\}\}\]\}\}\}\}\}\}\}\}\}\}\]\}\}\]\}\]\}\}\]\}\}\]\}\]\}\}\]\}\}\]\}\]\}\}\}\}\}\]\}\}\}\}\}\]\}\]\]\}\]\}\}\}\]\}\}\}\}\}\}\}\}\]\}\}\]\}\}\}\}\}\]\}\}\}\]\}\}\}\}\}\}\}\]\]\}\]\]\}\]\}\}\}\]\}\}\}\}\]\}\}\}\}\]\}\]\}\]\}\}\}\}\}\}\]\}\}\]\}\}\}\}\}\}\}\}\}\]\}\}\}\]\}\]\}\}\]\}\}\]\}\}\}\]\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\]\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\}\\
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 $token->type() eq "start"

=item $token->is_text

This is a shortcut for $token->type() eq "text"

=item $token->is_end

This is a shortcut for $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>

=head1 SUPPORT

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=head1 NAME

Pod::Simple::HTML - convert Pod to HTML
SYNOPSIS

perl -MPod::Simple::HTML -e Pod::Simple::HTML::go thingy.pod

DESCRIPTION

This class is for making an HTML rendering of a Pod document.

This is a subclass of 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 Pod::Simple::HTMLBatch.

CALLING FROM THE COMMAND LINE

TODO

perl -MPod::Simple::HTML -e Pod::Simple::HTML::go Thing.pod Thing.html

CALLING FROM PERL

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;

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};

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.
$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 </title> and through the rest of the head
till the opening of the body

$p->html_header_after_title('</title>...<head><body id="my_id">');

=head2 html_footer

The very end of the document:

$p->html_footer( qq[
<!-- end doc -->

</body></html>

]);

=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;
}
Meanwhile in script.pl:

```perl
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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Pod::Simple is maintained by:

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=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<dwheeler@cpan.org>

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=cut

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=head1 NAME

Pod::Simple::DumpAsText -- dump Pod-parsing events as text

=head1 SYNOPSIS

perl -MPod::Simple::DumpAsText -e \n  "exit Pod::Simple::DumpAsText->filter(shift)->any_errata_seen" \n  thingy.pod

=head1 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.

=head1 SEE ALSO

L<Pod::Simple::DumpAsXML>

L<Pod::Simple>

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=head1 NAME

Pod::Simple::PullParserEndToken -- end-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->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(...)  

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> >>
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> )
>>

=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

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=item * Allison Randal C<allison@perl.org>
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 plain text, HTML, or any number of other formats.

To install this module, type the following:

    perl Makefile.PL
    make
    make test
    make install

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.

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# COPYING.other  -*- org -*-
#+TITLE: List of code with permissive licenses as used by GnuPG.
#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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

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1.566 python3-wsme 0.9.4
1.20201113110916.bff9624.el8ost

1.566.1 Available under license :
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1.567 perl-threads-shared 1.58 2.el8

1.567.1 Available under license :
No license file was found, but licenses were detected in source scan.

/*
******************************************************************************
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.

*******************************************************************************/
NAME

ppport.h - Perl/Pollution/Portability version 3.19

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

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.

OPTIONS

--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 automagially 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
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),
#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>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>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td>load_module()</td>
<td>NEED_load_module</td>
<td>NEED_load_module_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>
<tr>
<td>my_strlcpy()</td>
<td>NEED_my_strlcpy</td>
<td>NEED_my_strlcpy_GLOBAL</td>
</tr>
<tr>
<td>newCONSTSUB()</td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUB_GLOBAL</td>
</tr>
<tr>
<td>newRV_noinc()</td>
<td>NEED_newRV_noinc</td>
<td>NEED_newRV_noinc_GLOBAL</td>
</tr>
<tr>
<td>newSV_type()</td>
<td>NEED_newSV_type</td>
<td>NEED_newSV_type_GLOBAL</td>
</tr>
<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>
<td>NEED_newSVpvn_share_GLOBAL</td>
</tr>
<tr>
<td>pv_display()</td>
<td>NEED_pv_display</td>
<td>NEED_pv_display_GLOBAL</td>
</tr>
<tr>
<td>pv_escape()</td>
<td>NEED_pv_escape</td>
<td>NEED_pv_escape_GLOBAL</td>
</tr>
<tr>
<td>pv_pretty()</td>
<td>NEED_pv_pretty</td>
<td>NEED_pv_pretty_GLOBAL</td>
</tr>
<tr>
<td>sv_2pvflags()</td>
<td>NEED_sv_2pvflags</td>
<td>NEED_sv_2pvflags_GLOBAL</td>
</tr>
<tr>
<td>sv_2pvbyte()</td>
<td>NEED_sv_2pvbyte</td>
<td>NEED_sv_2pvbyte_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_mg()</td>
<td>NEED_sv_catpvf_mg</td>
<td>NEED_sv_catpvf_mg_GLOBAL</td>
</tr>
<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>vnewSVpfv()</td>
<td>NEED_vnewSVpfv</td>
<td>NEED_vnewSVpfv_GLOBAL</td>
</tr>
<tr>
<td>warning()</td>
<td>NEED_warning</td>
<td>NEED_warning_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_>.

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

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

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=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;

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

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

# Never use C comments in this file!
my $ccs = '\/.*';
my $ccej = '.*\?';
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 ($@ and grep /^-/i, @ARGV) {
    usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
    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+\|[^|]*\|[^|]*\|\w+$/ } qw(
    AvFILLp|5.004050||p
    AvFILL|||}
CLASS

CPERLscope

CX_CURPAD_SAVE

CX_CURPAD_SV

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CopFILEGV

CopFILEGV_set

CopFILESV

CopFILE_set

CopFILE

CopSTASHPV_set

CopSTASHPV

CopSTASH_eq

CopSTASH_set

CopSTASH

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CvPADLIST

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DEFSV

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GIMME

GROK_NUMERIC_RADIX

G_ARRAY

G_DISCARD

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G_METHOD

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cl_init_zero
cl_init
cl_is_anything
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croak
csighandler
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custom_op_name
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cv_clone
cv_const_sv
cv_dump
cv_undef
cx_dump
cx_dup
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dAX
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dMARK
dMULTICALL
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dTHXa|5.006000||p
dTHXoa|5.006000||p
dTHX|5.006000||p
dUNDERBAR|5.009002||p
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my_htolei||n
my_htolell||n
my_htoles||n
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scan_subst
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sv_2num
sv_2nv
sv_2pvflags[5.007002][p
sv_2pv_nolen[5.006000][p
sv_2pvbyte_nolen[5.006000][p
sv_2pvbyte[5.006000][p
sv_2pvutf8_nolen[5.006000]
sv_2pvutf8[5.006000]
sv_2pv
sv_2uvflags[5.009001]
sv_2uv[5.004000][p
sv_add_arena
sv_add_backref
sv_backoff
sv_bless
sv_cat_decode[5.008001]

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svtype||
swallow_bom||
swap_match_buf||
swash_fetch||5.007002|
swash_get||
swash_init||5.006000|
sys_init3||5.010000|n
sys_init||5.010000|n
sys_intern_clear||
sys_intern_dup||
sys_intern_init||
sys_term||5.010000|n
taint_env||
taint_proper||
tmps_grow||5.006000|
toLOWER||
toUPPER||
to_byte_substr||
to_uni_fold||5.007003|
to_uni_lower_lc||5.006000|
to_uni_lower||5.007003|
to_uni_title_lc||5.006000|
to_uni_title||5.007003|
to_uni_upper_lc||5.006000|
to_uni_upper||5.007003|
to_utf8_case||5.007003|
to_utf8_fold||5.007003|
to_utf8_lower||5.007003|
to_utf8_substr||
to_utf8_title||5.007003|
to_utf8_upper||5.007003|
token_free||
token_getmad||
tokenize_use||
tokeq||
tokereport||
too_few_arguments||
too_many_arguments||
uiv_2buf||n
unlink||
unpack_rec||
unpack_str||5.0070003|
unpackstring||5.008001|
unshare_hek_or_pvn||
unshare_hek||
unsharepvn||5.004000|
unwind_handler_stack||
update_debugger_info||
xmldump_all|||
xmldump_attr|||
xmldump_eval|||
xmldump_form|||
xmldump_indent|||v
xmldump_packsubs|||
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";
}
}

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else { undef $hint }
}

$hint = [$1, split /,?s+=/, $2]]
   if m{"s*srccs*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+)\}):

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

if (m{"s*srccs\s+(\w+(\w*\w+)+)s+depends\s+(\w+(\w*\w+)+)s+srccs\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{^
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!/\w+/? $1 : "^Q$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" if exists $need{$f};
            print "Depends on: ", join(',', @{$depends{$f}}), ",\n" if exists $depends{$f};
            print "\nHints\n$hints{$f}" if exists $hints{$f};
            print "\nWarning:\n$warnings{$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'}'.";
    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};
    }
}

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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);

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}
@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]* ) )
}{ 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};

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$file{uses_Perl}{$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{$_}}) {
push @{$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;

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@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*}
{$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}}));
}

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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/^$HS*define$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/^$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
        }
    } if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*define$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.*XSUB.*\s*?)$/\1$pp/m)
            || ($c =~ s/^/$pp/);
    } else {
        if ($file{has_inc_ppport}) {
            diag("No need to include '$ppport'");
            $file{changes} += ($c =~ s/^\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 {
    $c =~ s/$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$s)" : "
info("Analysis completed$swarn");

if ($file{changes}) {
  if (exists $opt{copy}) {
    my $newfile = "$filename$opt{copy}";
    if (-e $newfile) {
      error("$newfile' already exists, refusing to write copy of '$filename'");
    } else {
      local *F;
      if (open F, ">$newfile") {
        info("Writing copy of '$filename' with changes to '$newfile'"):
        print F $c;
        close F;
      } else {
        error("Cannot open '$newfile' for writing: $!");
      }
    }
  } elsif (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
      unless ($patch_opened) {
        if (open PATCH, ">$opt{patch}") {
          $patch_opened = 1;
        } else {
          error("Cannot open '$opt{patch}' for writing: $!");
          delete $opt{patch};
          $opt{changes} = 1;
          goto fallback;
        }
      }
      $c = $opt{patch} ++;
      $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$opt{patch} $cce/;
    } else {
      error("Cannot open '$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 (!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 $tmp |") {
            while (<F>) {
                s/$tmp/E/$file.patched/;
                $diff .= $_;
            }
            close F;
            unlink $tmp;
            return $diff;
        }
        unlink $tmp;
        return undef;
    } else {
        error("Cannot open '$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, $3); 
    } elsif ($ver !~ /^[\d+]{1}[\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 "cannot parse version '$ver'\n"; 
    } 

return ($r, $v, $s); 
}
if ($s % 10) {
    die "invalid version "$ver"n";
}
$s /= 10;

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

return $ver;
}

return sprintf "%.%.%.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", $warn;
if ($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/\$^X perl/; $usage =~ s/\<[A-Z]<([^>]\s/\$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*(.*)\s*/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]\[^*]*\*+)* / | /\[^
\]*
}| ( "[^"\]*(?:\."[^"\]*)*"
| [^"]*+(?:[^$ccs]\[^"]*+)* [^"]*+
| \$HS+ ) }{ defined $2 ? ' ' : ($1 || '') }gsex;
$c =~ s!\s+$!!mg;
$c =~ s!^$LF!!mg;
$c =~ s!^\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/cola/permits/1162151875_1620796941.46/0/perl-threads-shared-1.58-2.el8-1.src.rpm-cosi-expand-archive-xgcMLYFw/threads-shared-1.58.tar.gz-cosi-expand-archive-X0tVMhOP/threads-shared-1.58/ppport.h
No license file was found, but licenses were detected in source scan.

=head1 NAME

threads::shared - Perl extension for sharing data structures between threads

=head1 VERSION

This document describes threads::shared version 1.58

=head1 SYNOPSIS

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);

=head1 DESCRIPTION

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>,

Open Source Used In Cisco VIM 4.2.0 4965
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
$var = \%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
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 hashrefs, 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.

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>.

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");
}

=item lock VARIABLE

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:

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
The `cond_wait` function takes a `locked` variable as a parameter, unlocks the variable, and blocks until another thread does a `cond_signal` or `cond_broadcast` for that same locked variable. The variable that `cond_wait` blocked on is re-locked after the `cond_wait` is satisfied. If there are multiple threads `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 `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, `cond_wait` takes a shared, `unlocked` variable followed by a shared, `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 `cond_signal` or `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; }
```

In its two-argument form, `cond_timedwait` takes a `locked` variable and an absolute timeout in `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 `cond_wait`, this function may take a shared, `locked` variable as an additional parameter; in this case the first parameter is an `unlocked` condition variable protected by a distinct lock variable.

Again like `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:

```perl
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:

```perl
{ 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.

=head1 OBJECTS

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

=item cond_broadcast() called on unlocked variable

=item cond_signal() called on unlocked variable

See L</"cond_signal VARIABLE">, above.

=back

=head1 BUGS AND LIMITATIONS
When `share` is used on arrays, hashes, array refs or hash refs, any data they contain will be lost.

    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:

    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 `splice` on arrays. Does not support explicitly changing array lengths via $#array -- use `push` and `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()> 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:

```perl
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>jdhedden AT cpan DOT orgE<gt>.

=head1 LICENSE

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

=cut

Found in path(s):
* /opt/cola/permits/1162151875_1620796941.46/0/perl-threads-shared-1.58-2.el8-1.src.rpm-cosi-expand-archive-xgeMLYFw/threads-shared-1.58.tar.gz-cosi-expand-archive-X0tVMhOP/threads-shared-1.58/lib/threads/shared.pm

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

Found in path(s):
* /opt/cola/permits/1162151875_1620796941.46/0/perl-threads-shared-1.58-2.el8-1.src.rpm-cosi-expand-archive-xgcMLYFw/perl-threads-shared.spec
No license file was found, but licenses were detected in source scan.

---
abstract: 'Perl extension for sharing data structures between 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-shared
no_index:
directory:
  - t
  - inc
requires:
  Carp: '0'
  Config: '0'
  ExtUtils::testlib: '0'
  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'

Found in path(s):
* /opt/cola/permits/1162151875_1620796941.46/0/perl-threads-shared-1.58-2.el8-1.src.rpm-cosi-expand-archive-xgcMLYFw/threads-shared-1.58.tar.gz-cosi-expand-archive-X0tVMhOP/threads-shared-1.58/META.yml
No license file was found, but licenses were detected in source scan.

Copyright 2006 - 2017 Jerry D. Hedden. All rights reserved.
This program is free software; you can redistribute it and/or modify it under
the same terms as Perl itself.
/*    shared.xs
*     Copyright (c) 2001-2002, 2006 Larry Wall
*     You may distribute under the terms of either the GNU General Public
*     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>
*/

/*    Shared variables are implemented by a scheme similar to tieing.
*    Each thread has a proxy SV with attached magic -- "private SVs" --
*    which all point to a single SV in a separate shared interpreter
*    (PL_sharedsv_space) -- "shared SVs".
*    The shared SV holds the variable's true values, and its state is
*    copied between the shared and private SVs with the usual
*    mg_get()/mg_set() arrangement.
*    Aggregates (AVs and HVs) are implemented using tie magic, except that
*    the table used is one defined in this file rather than the standard one.
*    This means that where a tie function like FETCH is normally invoked by
*    the tie magic's mg_get() function, we completely bypass the calling of a
*    perl-level function, and directly call C-level code to handle it. On
*    the other hand, calls to functions like PUSH are done directly by code
*    in av.c, etc., which we can't bypass. So the best we can do is to provide
*    XS versions of these functions. We also have to attach a tie object,
*    blessed into the class threads::shared::tie, to keep the method-calling
*    code happy.
*    Access to aggregate elements is done the usual tied way by returning a
*    proxy PVLV element with attached element magic.
*    Pointers to the shared SV are squirrelled away in the mg->mg_ptr field
*    of magic (with mg_len == 0), and in the IV2PTR(SvIV(sv)) field of tied
* object SVs. These pointers have to be hidden like this because they
* cross interpreter boundaries, and we don’t want sv_clear() and friends
* following them.
*
* The three basic shared types look like the following:
*
* -----------------
*
* Shared scalar (my $s : shared):
*
* SV = PVMG(0x7ba238) at 0x7387a8
* FLAGS = (PADMY,GMG,SMG)
* MAGIC = 0x824d88
* MG_TYPE = PERL_MAGIC_shared_scalar(n)
* MG_PTR = 0x810358 "<<< pointer to the shared SV
*
* -----------------
*
* Shared aggregate (my @a : shared; my %h : shared):
*
* SV = PVAV(0x7175d0) at 0x738708
* FLAGS = (PADMY,RMG)
* MAGIC = 0x824e48
* MG_TYPE = PERL_MAGIC_tied(P)
* MG_OBJ = 0x7136e0 "<<< ref to the tied object
* SV = RV(0x7136f0) at 0x7136e0
* RV = 0x738640
* SV = PVMG(0x7ba238) at 0x738640 "<<< the tied object
* FLAGS = (OBJECT,IOK,pIOK)
* IV = 8455000 "<<< pointer to the shared AV
* STASH = 0x80abf0 "threads::shared::tie"
* MG_PTR = 0x810358 "<<< another pointer to the shared AV
* ARRAY = 0x0
*
* -----------------
*
* Aggregate element (my @a : shared; $a[0])
*
* SV = PVLV(0x77f628) at 0x713550
* FLAGS = (GMG,SMG,RMG,pIOK)
* MAGIC = 0x72bd58
* MG_TYPE = PERL_MAGIC_shared_scalar(n)
* MG_PTR = 0x8103c0 "<<< pointer to the shared element
* MAGIC = 0x72bd18
* MG_TYPE = PERL_MAGIC_tiedelem(p)
* MG_OBJ = 0x7136e0 "<<< ref to the tied object
* SV = RV(0x7136f0) at 0x7136e0
* RV = 0x738660
* SV = PVMG(0x7ba278) at 0x738660 <<<< the tied object
* FLAGS = (OBJECT,IOK,pIOK)
* IV = 8455064 <<<< pointer to the shared AV
* STASH = 0x80ac30 "threads::shared::tie"
* TYPE = t

* Note that PERL_MAGIC_tiedelem(p) magic doesn't have a pointer to a
* shared SV in mg_ptr; instead this is used to store the hash key,
* if any, like normal tied elements. Note also that element SVs may have
* pointers to both the shared aggregate and the shared element.
* *
* Userland locks:
*
* If a shared variable is used as a perl-level lock or condition
* variable, then PERL_MAGIC_ext magic is attached to the associated
* *shared* SV, whose mg_ptr field points to a malloc'ed structure
* containing the necessary mutexes and condition variables.
* *
* Nomenclature:
*
* In this file, any variable name prefixed with 's' (e.g., ssv, stmp or sobj)
* usually represents a shared SV which corresponds to a private SV named
* without the prefix (e.g., sv, tmp or obj).
*/

#define PERL_NO_GET_CONTEXT
#include "EXTERN.h"
#include "perl.h"
#include "XSUB.h"
#ifdef HAS_PPPORT_H
  #define NEED_sv_2pv_flags
  #define NEED_vnewSVpvf
  #define NEED_warner
  #define NEED_newSVpvn_flags
  # include "ppport.h"
  # include "shared.h"
#endif

#ifndef CLANG_DIAG_IGNORE
#define CLANG_DIAG_IGNORE(x)
#define CLANG_DIAG_RESTORE(x)
#endif
#ifndef CLANG_DIAG_IGNORE_STMT
#define CLANG_DIAG_IGNORE_STMT(x) CLANG_DIAG_IGNORE(x) NOOP
#define CLANG_DIAG_RESTORE_STMT CLANG_DIAG_RESTORE NOOP
#endif

#ifdef USE_ITHREADS

/* Magic signature(s) for mg_private to make PERL_MAGIC_ext magic safer */
#define UL_MAGIC_SIG 0x554C /* UL = user lock */

/*
* The shared things need an interpreter to live in ...
*/
static PerlInterpreter *PL_sharedsv_space;  /* The shared sv space */
/* To access shared space we fake aTHX in this scope and thread's context */

/* Bug #24255: We include ENTER+SAVETMPS/FREETMPS+LEAVE with
* SHARED_CONTEXT/CALLER_CONTEXT macros, so that any mortals, etc. created
* while in the shared interpreter context don't languish */

#define SHARED_CONTEXT
    STMT_START {
    PERL_SET_CONTEXT((aTHX = PL_sharedsv_space));
    ENTER;
    SAVETMPS;
    } STMT_END

/* So we need a way to switch back to the caller's context... */
/* So we declare _another_ copy of the aTHX variable ... */
#define dTHXc PerlInterpreter *caller_perl = aTHX

/* ... and use it to switch back */
#define CALLER_CONTEXT
    STMT_START {
    FREETMPS;
    LEAVE;
    PERL_SET_CONTEXT((aTHX = caller_perl));
    } STMT_END

/*
* Only one thread at a time is allowed to mess with shared space.
*/

typedef struct {
    perl_mutex mutex;
    PerlInterpreter *owner;
    I32 locks;
    perl_cond cond;
    #ifdef DEBUG_LOCKS
    const char * file;
    int line;
    #endif
} recursive_lock_t;
static recursive_lock_t PL_sharedsv_lock; /* Mutex protecting the shared sv space */

static void
recursive_lock_init(pTHX_ recursive_lock_t *lock)
{
    Zero(lock,1,recursive_lock_t);
    MUTEX_INIT(&lock->mutex);
    COND_INIT(&lock->cond);
}

static void
recursive_lock_destroy(pTHX_ recursive_lock_t *lock)
{
    MUTEX_DESTROY(&lock->mutex);
    COND_DESTROY(&lock->cond);
}

static void
recursive_lock_release(pTHX_ recursive_lock_t *lock)
{
    MUTEX_LOCK(&lock->mutex);
    if (lock->owner == aTHX) {
        if (--lock->locks == 0) {
            lock->owner = NULL;
            COND_SIGNAL(&lock->cond);
        }
    }
    MUTEX_UNLOCK(&lock->mutex);
}

static void
recursive_lock_acquire(pTHX_ recursive_lock_t *lock, const char *file, int line)
{
    PERL_UNUSED_ARG(file);
    PERL_UNUSED_ARG(line);
    assert(aTHX);
    MUTEX_LOCK(&lock->mutex);
    if (lock->owner == aTHX) {
        lock->locks++;
    } else {
        while (lock->owner) {
            #ifdef DEBUG_LOCKS
                Perl_warn(aTHX_ " %p waiting - owned by %p %s:%d"
                    , aTHX, lock->owner, lock->file, lock->line);
            #endif
            COND_WAIT(&lock->cond,&lock->mutex);
        }
    }
}
lock->locks = 1;
lock->owner = aTHX;

#ifndef DEBUG_LOCKS
lock->file  = file;
lock->line  = line;
#endif

MUTEX_UNLOCK(&lock->mutex);
SAVEDESTRUCTOR_X(recursive_lock_release,lock);

#define ENTER_LOCK
   STMT_START {
      ENTER;
      recursive_lock_acquire(aTHX_ &PL_sharedsv_lock, __FILE__, __LINE__);
   } STMT_END

/* The unlocking is done automatically at scope exit */
#define LEAVE_LOCK LEAVE

/* A common idiom is to acquire access and switch in ... */
#define SHARED_EDIT
   STMT_START {
      ENTER_LOCK;
      SHARED_CONTEXT;
   } STMT_END

/* ... then switch out and release access. */
#define SHARED_RELEASE
   STMT_START {
      CALLER_CONTEXT;
      LEAVE_LOCK;
   } STMT_END

/* User-level locks:
   This structure is attached (using ext magic) to any shared SV that
   is used by user-level locking or condition code */

typedef struct {
   recursive_lock_t  lock;    /* For user-levl locks */
   perl_cond         user_cond;    /* For user-level conditions */
   user_lock;

   /* Magic used for attaching user_lock structs to shared SVs */
The vtable used has just one entry - when the SV goes away we free the memory for the above.

*/

static int
sharedsv_userlock_free(pTHX_ SV *sv, MAGIC *mg)
{
    user_lock *ul = (user_lock *) mg->mg_ptr;
    PERL_UNUSED_ARG(sv);
    assert(aTHX == PL_sharedsv_space);
    if (ul) {
        recursive_lock_destroy(aTHX_ &ul->lock);
        COND_DESTROY(&ul->user_cond);
        PerlMemShared_free(ul);
        mg->mg_ptr = NULL;
    }
    return (0);
}

static const MGVTBL sharedsv_userlock_vtbl = {
    0,  /* get */
    0,  /* set */
    0,  /* len */
    0,  /* clear */
    sharedsv_userlock_free,  /* free */
    0,  /* copy */
    0,  /* dup */
    #ifdef MGf_LOCAL
    0,  /* local */
    #endif
};

/* Support for dual-valued variables */
#endif

#define DUALVAR_FLAGS(sv)                             
    ((SvPOK(sv))                                        
    ? ((SvNOK(sv) || SvNOKp(sv)) ? SVf_NOK          
    : ((SvIsUV(sv)) ? (SVf_IOK | SVf_IVisUV)        
    : ((SvIOK(sv) || SvIOKp(sv)) ? SVf_IOK : 0)))   
    : 0)

#ifndef SVf_IVisUV

#define DUALVAR_FLAGS(sv)                             
    ((SvPOK(sv))                                        
    ? ((SvNOK(sv) || SvNOKp(sv)) ? SVf_NOK          
    : ((SvIOK(sv) || SvIOKp(sv)) ? SVf_IOK : 0))    
    : 0)

#endif
/*
 * Access to shared things is heavily based on MAGIC
 * - in mg.h/mg.c/sv.c sense
 */

/* In any thread that has access to a shared thing there is a "proxy"
   for it in its own space which has 'MAGIC' associated which accesses
   the shared thing.
*/

extern const MGVTBL sharedsv_scalar_vtbl;    /* Scalars have this vtable */
extern const MGVTBL sharedsv_array_vtbl;      /* Hashes and arrays have this
   - like 'tie' */
extern const MGVTBL sharedsv_elem_vtbl;       /* Elements of hashes and arrays have
   this _AS WELL AS_ the scalar magic:
   The sharedsv_elem_vtbl associates the element with the array/hash and
   the sharedsv_scalar_vtbl associates it with the value
 */

/* Get shared aggregate SV pointed to by threads::shared::tie magic object */
#define SHAREDSV_FROM_OBJ(sv) ((SvROK(sv)) ? INT2PTR(SV *, SvIV(SvRV(sv))) : NULL)

/* Return the user_lock structure (if any) associated with a shared SV.
 * If create is true, create one if it doesn't exist
 */
STATIC user_lock *
S_get_userlock(pTHX_ SV* ssv, bool create)
{
    MAGIC *mg;
    user_lock *ul = NULL;

    assert(ssv);
    /* XXX Redesign the storage of user locks so we don't need a global
       * lock to access them ????? DAPM */
    ENTER_LOCK;

    /* Version of mg_find that also checks the private signature */
    for (mg = SvMAGIC(ssv); mg; mg = mg->mg_moremagic) {
        if ((mg->mg_type == PERL_MAGIC_ext) &&
            (mg->mg_private == UL_MAGIC_SIG)) {
            break;
        }
    }

}
if (mg) {
    ul = (user_lock*)(mg->mg_ptr);
} else if (create) {
    SHARED_CONTEXT;
    ul = (user_lock *) PerlMemShared_malloc(sizeof(user_lock));
    Zero(ul, 1, user_lock);
    /* Attach to shared SV using ext magic */
    mg = sv_magicext(ssv, NULL, PERL_MAGIC_ext, &sharedsv_userlock_vtbl,
                     (char *)ul, 0);
    mg->mg_private = UL_MAGIC_SIG; /* Set private signature */
    recursive_lock_init(aTHX_ &ul->lock);
    COND_INIT(&ul->user_cond);
    CALLER_CONTEXT;
}
LEAVE_LOCK;
return (ul);

/* Given a private side SV tries to find if the SV has a shared backend,
 * by looking for the magic.
 */
static SV *
Perl_sharedsv_find(pTHX_ SV *sv)
{
    MAGIC *mg;
    if (SvTYPE(sv) >= SVt_PVMG) {
        switch(SvTYPE(sv)) {
        case SVt_PVAV:
        case SVt_PVHV:
            if ((mg = mg_find(sv, PERL_MAGIC_tied))
                && mg->mg_virtual == &sharedsv_array_vtbl) {
                return ((SV *)mg->mg_ptr);
            }
            break;
        default:
            /* This should work for elements as well as they
             * have scalar magic as well as their element magic
             */
            if ((mg = mg_find(sv, PERL_MAGIC_shared_scalar))
                && mg->mg_virtual == &sharedsv_scalar_vtbl) {
                return ((SV *)mg->mg_ptr);
            }
            break;
        }
    }
if (SvROK(sv) && sv_derived_from(sv, "threads::shared::tie")) {
    return (SHAREDSV_FROM_OBJ(sv));
}
return (NULL);
}

/* Associate a private SV with a shared SV by pointing the appropriate
* magics at it.
* Assumes lock is held.
*/
static void
Perl_sharedsv_associate(pTHX_ SV *sv, SV *ssv)
{
    MAGIC *mg = 0;

    /* If we are asked for any private ops we need a thread */
    assert ( aTHX != PL_sharedsv_space );

    /* To avoid need for recursive locks require caller to hold lock */
    assert ( PL_sharedsv_lock.owner == aTHX );

    switch(SvTYPE(sv)) {
    case SVt_PVAV:
    case SVt_PVHV:
        if (!((mg = mg_find(sv, PERL_MAGIC_tied))
             || mg->mg_virtual != &sharedsv_array_vtbl
             || (SV*) mg->mg_ptr != ssv)) {
            SV *obj = newSV(0);
            sv_setref_iv(obj, "threads::shared::tie", PTR2IV(ssv));
            if (mg) {
                sv_unmagic(sv, PERL_MAGIC_tied);
            }
            mg = sv_magicext(sv, obj, PERL_MAGIC_tied, &sharedsv_array_vtbl,
                (char *)ssv, 0);
            mg->mg_flags |= (MGf_COPY|MGf_DUP);
            SvREFCNT_inc_void(ssv);
            SvREFCNT_dec(obj);
            break;
        }
        default:
            if ( !(SVTYPE(sv) < SVt_PVMG)
                 || !(mg = mg_find(sv, PERL_MAGIC_shared_scalar))
                 || mg->mg_virtual != &sharedsv_scalar_vtbl) {
|| (SV*) mg->mg_ptr != ssv
{
  if (mg) {
    sv_unmagic(sv, PERL_MAGIC_shared_scalar);
  }
  mg = sv_magicext(sv, Nullsv, PERL_MAGIC_shared_scalar, &sharedsv_scalar_vtbl, (char *)ssv, 0);
  mg->mg_flags |= (MGf_DUP
    #ifdef MGf_LOCAL
    |MGf_LOCAL
    #endif
  );
  SvREFCNT_inc_void(ssv);
  break;
}

assert ( Perl_sharedsv_find(aTHX_ sv) == ssv );
}

/* Given a private SV, create and return an associated shared SV.
 * Assumes lock is held.
 */
STATIC SV *
S_sharedsv_new_shared(pTHX_ SV *sv)
{
dTHXc;
SV *ssv;

assert(PL_sharedsv_lock.owner == aTHX);
assert(aTHX != PL_sharedsv_space);

SHARED_CONTEXT;
ssv = newSV(0);
SvREFCNT(ssv) = 0; /* Will be upped to 1 by Perl_sharedsv_associate */
sv_upgrade(ssv, SvTYPE(sv));
CALLER_CONTEXT;
Perl_sharedsv_associate(aTHX_ sv, ssv);
return (ssv);
}

/* Given a shared SV, create and return an associated private SV.
 * Assumes lock is held.
 */
STATIC SV *
S_sharedsv_new_private(pTHX_ SV *ssv)
{  
SV *sv;

assert(PL_sharedsv_lock.owner == aTHX);
assert(aTHX != PL_sharedsv_space);

sv = newSV(0);
sv_upgrade(sv, SvTYPE(ssv));
Perl_sharedsv_associate(aTHX_ sv, ssv);
return (sv);
}

/* A threadsafe version of SvREFCNT_dec(ssv) */

STATIC void
S_sharedsv_dec(pTHX_ SV* ssv)
{
  if (! ssv)
    return;
  ENTER_LOCK;
  if (SvREFCNT(ssv) > 1) {
    /* No side effects, so can do it lightweight */
    SvREFCNT_dec(ssv);
  } else {
    dTHXc;
    SHARED_CONTEXT;
    SvREFCNT_dec(ssv);
    CALLER_CONTEXT;
  }
  LEAVE_LOCK;
}

/* Implements Perl-level share() and :shared */

static void
Perl_sharedsv_share(pTHX_ SV *sv)
{
  switch(SvTYPE(sv)) {
  case SVt_PVGV:
    Perl_croak(aTHX_ "Cannot share globs yet");
    break;
  case SVt_PVCV:
    Perl_croak(aTHX_ "Cannot share subs yet");
    break;
  }
default:
    ENTER_LOCK;
    (void) S_sharedsv_new_shared(aTHX_ sv);
    LEAVE_LOCK;
    SvSETMAGIC(sv);
    break;
}

#endif

/* Number of milliseconds from 1/1/1601 to 1/1/1970 */
#define EPOCH_BIAS 11644473600000.

/* Returns relative time in milliseconds. (Adapted from Time::HiRes.) */
STATIC DWORD
S_abs_2_rel_milli(double abs)
{
    double rel;

    /* Get current time (in units of 100 nanoseconds since 1/1/1601) */
    union {
        FILETIME ft;
        __int64  i64;  /* 'signed' to keep compilers happy */
    } now;
    GetSystemTimeAsFileTime(&now.ft);

    /* Relative time in milliseconds */
    rel = (abs * 1000.) - (((double)now.i64 / 10000.) - EPOCH_BIAS);
    if (rel <= 0.0) {
        return (0);
    }
    return (DWORD)rel;
}

#else
    # if defined(OS2)
    # define ABS2RELMILLI(abs) do { abs -= (double)time(NULL); if (abs > 0) { abs *= 1000; } else { abs = 0; } while (0)
    # endif /* OS2 */
    #endif /* WIN32 */

    /* Do OS-specific condition timed wait */
static bool
Perl_sharedsv_cond_timedwait(perl_cond *cond, perl_mutex *mut, double abs)
{
#if defined(NETWARE) || defined(I_MACH_CTHREADS)
    Perl_croak_nocontext("cond_timedwait not supported on this platform");
#else
    #ifdef WIN32
        int got_it = 0;
        cond->waiters++;
        MUTEX_UNLOCK(mut);
        /* See comments in win32/win32thread.h COND_WAIT vis-a-vis race */
        switch (WaitForSingleObject(cond->sem, S_abs_2_rel_milli(abs))) {
            case WAIT_OBJECT_0:   got_it = 1; break;
            case WAIT_TIMEOUT:                break;
            default:
                /* WAIT_FAILED? WAIT_ABANDONED? others? */
                Perl_croak_nocontext("panic: cond_timedwait (%ld),GetLastError()");
                break;
        }
        MUTEX_LOCK(mut);
        cond->waiters--;
        return (got_it);
    #else
        #ifdef OS2
            int rc, got_it = 0;
            STRLEN n_a;
            ABS2RELMILLI(abs);
            if ((rc = DosResetEventSem(*cond,&n_a)) && (rc != ERROR_ALREADY_RESET))
                Perl_rc = rc, croak_with_os2error("panic: cond_timedwait-reset");
            MUTEX_UNLOCK(mut);
            if (CheckOSError(DosWaitEventSem(*cond,abs))
                && (rc != ERROR_INTERRUPT))
                croak_with_os2error("panic: cond_timedwait");
            if (rc == ERROR_INTERRUPT) errno = EINTR;
            MUTEX_LOCK(mut);
            return (got_it);
        #else /* Hope you're I_PTHREAD! */
            struct timespec ts;
            int got_it = 0;
            ts.tv_sec = (long)abs;
            abs -= (NV)ts.tv_sec;
            ts.tv_nsec = (long)(abs * 1000000000.0);
        #endif
    #endif
#endif
}
/* warning: calling function 'pthread_cond_timedwait' requires holding mutex 'mut' exclusively [-Wthread-safety-analysis] */
switch (pthread_cond_timedwait(cond, mut, &ts)) {
CLANG_DIAG_RESTORE_STMT;

    case 0: got_it = 1; break;
    case ETIMEDOUT: break;
#endif /* OEMVS */
    case -1:
        if (errno == ETIMEDOUT || errno == EAGAIN)
            break;
#endif /* WIN32 */
    #endif /* NETWARE || I_MACH_CTHREADS */
}

/* Given a thingy referenced by a shared RV, copy it's value to a private
 * RV, also copying the object status of the referent.
 * If the private side is already an appropriate RV->SV combination, keep
 * it if possible.
 */
STATIC void
S_get_RV(pTHX_ SV *sv, SV *sobj) {
    SV *obj;
    if (! (SvROK(sv) &&
        ((obj = SvRV(sv))) &&
        (Perl_sharedsv_find(aTHX_ obj) == sobj) &&
        (SvTYPE(obj) == SvTYPE(sobj)))))
    {
        /* Can't reuse obj */
        if (SvROK(sv)) {
            SvDECREF(SvRV(sv));
        } else {
            assert(SvTYPE(sv) >= SVt_RV);
            sv_setsv_nomg(sv, &PL_sv_undef);
            SvROK_on(sv);
        }
        obj = S_sharedsv_new_private(aTHX_ sobj);
    }
    SvRV_set(sv, obj);
    }
if (SvOBJECT(obj)) {
    /* Remove any old blessing */
    SvREFCNT_dec(SvSTASH(obj));
    SvOBJECT_off(obj);
}
if (SvOBJECT(sobj)) {
    /* Add any new old blessing */
    STRLEN len;
    char* stash_ptr = SvPV((SV*) SvSTASH(sobj), len);
    HV* stash = gv_stashpvn(stash_ptr, len, TRUE);
    SvOBJECT_on(obj);
    SvSTASH_set(obj, (HV*)SvREFCNT_inc(stash));
}

/* Every caller of S_get_RV needs this incantation (which cannot go inside
S_get_RV itself, as we do not want recursion beyond one level): */
#define get_RV(sv, sobj)                     
  S_get_RV(aTHX_ sv, sobj);             
  /* Look ahead for refs of refs */      
  if (SvROK(sobj)) {                      
    SvROK_on(SvRV(sv));                  
    S_get_RV(aTHX_ SvRV(sv), SvRV(sobj));
  }
  
/* Get magic for PERL_MAGIC_shared_scalar(n) */

static int
sharedsv_scalar_mg_get(pTHX_ SV *sv, MAGIC *mg)
{
    SV *svv = (SV *) mg->mg_ptr;
    assert(svv);

    ENTER_LOCK;
    if (SvROK(svv)) {
        get_RV(sv, SvRV(svv));
    } else {
        sv_setsv_nomg(sv, ssv);
    }
    LEAVE_LOCK;
    return (0);
}

/* Copy the contents of a private SV to a shared SV.
* Used by various mg_set()-type functions.
* Assumes lock is held.
*/

static void
sharedsv_scalar_store(pTHX_ SV *sv, SV *ssv)
{
    dTHXc;

    bool allowed = TRUE;

    assert(PL_sharedsv_lock.owner == aTHX);

    if (!PL_dirty && SvROK(ssv) && SvREFCNT(SvRV(ssv)) == 1) {
        SV *sv = sv_newmortal();
        sv_upgrade(sv, SVt_RV);
        get_RV(sv, SvRV(ssv));

    }

    if (SvROK(sv)) {
        SV *obj = SvRV(sv);
        SV *sobj = Perl_sharedsv_find(aTHX, obj);
        if (sobj) {
            SHARED_CONTEXT;
            (void)SvUPGRADE(ssv, SVt_RV);
            sv_setsv_nomg(ssv, &PL_sv_undef);

            SvRV_set(ssv, SvREFCNT_inc(sobj));
            SvROK_on(ssv);
            if (SvOBJECT(sobj)) {
                /* Remove any old blessing */
                PvSTASH_dec(SvSTASH(sobj));
                SvOBJECT_off(sobj);
            }
            if (SvOBJECT(obj)) {
                SV* fake_stash = newSVpv(HvNAME_get(SvSTASH(obj)),0);
                SvOBJECT_on(sobj);
                SvSTASH_set(sobj, (HV*)fake_stash);
            }

            CALLER_CONTEXT;
        }

    } else {
        allowed = FALSE;

    }

} else {
    SvTEMP_off(sv);
    SHARED_CONTEXT;
    sv_setsv_nomg(ssv, sv);
    if (SvOBJECT(ssv)) {
        /* Remove any old blessing */
        PvSTASH_dec(SvSTASH(ssv));
        SvOBJECT_off(ssv);
    }
}
if (SvOBJECT(sv)) {
    SV* fake_stash = newSVpv(HvNAME_get(SvSTASH(sv)), 0);
    SvOBJECT_on(ssv);
    SvSTASH_set(ssv, (HV*)fake_stash);
}

/* Set magic for PERL_MAGIC_shared_scalar(n) */

static int
sharedsv_scalar_mg_set(pTHX_ SV *sv, MAGIC *mg)
{
    SV *ssv = (SV*)(mg->mg_ptr);
    assert(ssv);
    ENTER_LOCK;
    if (SvTYPE(ssv) < SvTYPE(sv)) {
        dTHXc;
        SHARED_CONTEXT;
        sv_upgrade(ssv, SvTYPE(sv));
        CALLER_CONTEXT;
    }
    sharedsv_scalar_store(aTHX_ sv, ssv);
    LEAVE_LOCK;
    return (0);
}

/* Free magic for PERL_MAGIC_shared_scalar(n) */

static int
sharedsv_scalar_mg_free(pTHX_ SV *sv, MAGIC *mg)
{
    PERL_UNUSED_ARG(sv);
    ENTER_LOCK;
    if (!PL_dirty
        && SvROK((SV*)mg->mg_ptr) && SvREFCNT(SvRV((SV*)mg->mg_ptr)) == 1) {
        SV *sv = sv_newmortal();
        sv_upgrade(sv, SVt_RV);
        get_RV(sv, SvRV((SV*)mg->mg_ptr));
    }
    S_sharedsv_dec(aTHX_ (SV*)mg->mg_ptr);
    LEAVE_LOCK;
    return (0);
}
#ifdef MGf_LOCAL

/*
 * Called during local $shared
 */
static int
sharedsv_scalar_mg_local(pTHX_SV* nsv, MAGIC *mg)
{
    MAGIC *nmg;
    SV *ssv = (SV *) mg->mg_ptr;
    if (ssv) {
        ENTER_LOCK;
        SvREFCNT_inc_void(ssv);
        LEAVE_LOCK;
    }
    nmg = sv_magicext(nsv, mg->mg_obj, mg->mg_type, mg->mg_virtual,
                     mg->mg_ptr, mg->mg_len);
    nmg->mg_flags   = mg->mg_flags;
    nmg->mg_private = mg->mg_private;

    return (0);
}
#endif

const MGVTBL sharedsv_scalar_vtbl = {
    sharedsv_scalar_get,    /* get */
    sharedsv_scalar_set,    /* set */
    0,                       /* len */
    0,                       /* clear */
    sharedsv_scalar_free,   /* free */
    0,                       /* copy */
    sharedsv_scalar_dup,    /* dup */
    #ifdef MGf_LOCAL
    sharedsv_scalar_local,  /* local */
    #endif
    sharedsv_scalar_mg_local,
};
/* ------------ PERL_MAGIC_tiedelem(p) functions -------------- */

/* Get magic for PERL_MAGIC_tiedelem(p) */

static int
sharedsv_elem_mg_FETCH(pTHX_ SV *sv, MAGIC *mg)
{
    dTHXc;
    SV *saggregate = SHAREDSV_FROM_OBJ(mg->mg_obj);
    SV** svp = NULL;

    ENTER_LOCK;
    if (saggregate) { /* During global destruction, underlying aggregate may no longer exist */
        if (SvTYPE(saggregate) == SVt_PVAV) {
            assert ( mg->mg_ptr == 0 );
            SHARED_CONTEXT;
            svp = av_fetch((AV*) saggregate, mg->mg_len, 0);
        } else {
            char *key = mg->mg_ptr;
            I32 len = mg->mg_len;
            assert ( mg->mg_ptr != 0 );
            if (mg->mg_len == HEf_SVKEY) {
                STRLEN slen;
                key = SvPV((SV *)mg->mg_ptr, slen);
                len = slen;
                if (SvUTF8((SV *)mg->mg_ptr)) {
                    len = -len;
                }
            }
            SHARED_CONTEXT;
            svp = hv_fetch((HV*) saggregate, key, len, 0);
        }
        CALLER_CONTEXT;
    }
    if (svp) {
        /* Exists in the array */
        if (SvROK(*svp)) {
            get_RV(sv, SvRV(*svp));
        } else {
            /* $ary->[elem] or $ary->{elem} is a scalar */
            Perl_sharedsv_associate(aTHX_ sv, *svp);
            sv_setsv(sv, *svp);
        }
    } else {
        /* Not in the array */
        sv_setsv(sv, &PL_sv_undef);
    }
}
LEAVE_LOCK;
    return (0);
}

/* Set magic for PERL_MAGIC_tiedelem(p) */

static int
sharedsv_elem_mg_STORE(pTHX_ SV *sv, MAGIC *mg)
{
    dTHXc;
    SV *saggregate = SHAREDSV_FROM_OBJ(mg->mg_obj);
    SV **svp;
    U32 dualvar_flags = DUALVAR_FLAGS(sv);

    /* Theory - SV itself is magically shared - and we have ordered the
     * magic such that by the time we get here it has been stored
     * to its shared counterpart
     * /
    ENTER_LOCK;
    assert(saggregate);
    if (SvTYPE(saggregate) == SVt_PVAV) {
        assert ( mg->mg_ptr == 0 );
        SHARED_CONTEXT;
        svp = av_fetch((AV*) saggregate, mg->mg_len, 1);
    } else {
        char *key = mg->mg_ptr;
        I32 len = mg->mg_len;
        assert ( mg->mg_ptr != 0 );
        if (mg->mg_len == HEf_SVKEY) {
            STRLEN slen;
            key = SvPV((SV *)mg->mg_ptr, slen);
            len = slen;
            if (SvUTF8((SV *)mg->mg_ptr)) {  
                len = -len;
            }  
            SHARED_CONTEXT;
            svp = hv_fetch((HV*) saggregate, key, len, 1);
        }
    }  
    CALLER_CONTEXT;
    Perl_sharedsv_associate(aTHX_ sv, *svp);
    sharedsv_scalar_store(aTHX_ sv, *svp);
    SvFLAGS(*svp) |= dualvar_flags;
    LEAVE_LOCK;
    return (0);
}

/* Clear magic for PERL_MAGIC_tiedelem(p) */
static int
sharedsv_elem_mg_DELETE(pTHX_ SV *sv, MAGIC *mg)
{
    dTHXc;
    MAGIC *shmg;
    SV *saggregate = SHAREDSV_FROM_OBJ(mg->mg_obj);

    /* Object may not exist during global destruction */
    if (!saggregate) {
        return (0);
    }

    ENTER_LOCK;
    sharedsv_elem_mg_FETCH(aTHX_ sv, mg);
    if ((shmg = mg_find(sv, PERL_MAGIC_shared_scalar)))
        sharedsv_scalar_mg_get(aTHX_ sv, shmg);
    if (SvTYPE(saggregate) == SVt_PVAV) {
        SHARED_CONTEXT;
        av_delete((AV*) saggregate, mg->mg_len, G_DISCARD);
    } else {
        char *key = mg->mg_ptr;
        I32 len = mg->mg_len;
        assert (mg->mg_ptr != 0);
        if (mg->mg_len == HEf_SVKEY) {
            STRLEN slen;
            key = SvPV((SV *)mg->mg_ptr, slen);
            len = slen;
            if (SvUTF8((SV *)mg->mg_ptr)) {
                len = -len;
            }
        }
        SHARED_CONTEXT;
        (void) hv_delete((HV*) saggregate, key, len, G_DISCARD);
    }
    CALLER_CONTEXT;
    LEAVE_LOCK;
    return (0);
}

/* Called during cloning of PERL_MAGIC_tiedelem(p) magic in new
 * thread */

static int
sharedsv_elem_mg_dup(pTHX_ MAGIC *mg, CLONE_PARAMS *param)
{
    PERL_UNUSED_ARG(param);
    SvREFCNT_inc_void(SHAREDSV_FROM_OBJ(mg->mg_obj));
assert(mg->mg_flags & MGf_DUP);
return (0);
}

const MGVTBL sharedsv_elem_vtbl = {
    sharedsv_elem_mg_FETCH,     /* get */
    sharedsv_elem_mg_STORE,     /* set */
    0,                          /* len */
    sharedsv_elem_mg_DELETE,    /* clear */
    0,                          /* free */
    0,                          /* copy */
    sharedsv_elem_mg_dup,       /* dup */
#ifdef MGf_LOCAL
    0,                          /* local */
#endif
};

/* ------------ PERL_MAGIC_tied(P) functions -------------- */

/* Len magic for PERL_MAGIC_tied(P) */

static U32
sharedsv_array_mg_FETCHSIZE(pTHX_ SV *sv, MAGIC *mg)
{
    dTHXc;
    SV *ssv = (SV *) mg->mg_ptr;
    U32 val;
    PERL_UNUSED_ARG(sv);
    SHARED_EDIT;
    if (SvTYPE(ssv) == SVt_PVAV) {
        val = av_len((AV*) ssv);
    } else {
        /* Not actually defined by tie API but ... */
        val = HvUSEDKEYS((HV*) ssv);
    }
    SHARED_RELEASE;
    return (val);
}

/* Clear magic for PERL_MAGIC_tied(P) */

static int
sharedsv_array_mg_CLEAR(pTHX_ SV *sv, MAGIC *mg)
{
    dTHXc;
    SV *ssv = (SV *) mg->mg_ptr;
    const bool isav = SvTYPE(ssv) == SVt_PVAV;
    PERL_UNUSED_ARG(sv);
if (!PL_dirty) {
    SV **svp = isav ? AvARRAY((AV *)ssv) : NULL;
    I32 items = isav ? AvFILLp((AV *)ssv) + 1 : 0;
    HE *iter;
    if (!isav) hv_iterinit((HV *)ssv);
    while (isav ? items-- : !(iter = hv_iternext((HV *)ssv))) {
        SV *sv = isav ? *svp++ : HeVAL(iter);
        if (!sv) continue;
        if ( (SvOBJECT(sv) || (SvROK(sv) && (sv = SvRV(sv)))
            && SvREFCNT(sv) == 1 ) {  
            SV *tmp;
            PERL_SET_CONTEXT((aTHX = caller_perl));
            tmp = sv_newmortal();
            sv_upgrade(tmp, SVt_RV);
            get_RV(tmp, sv);
            PERL_SET_CONTEXT((aTHX = PL_sharedsv_space));
        }
        }
    }
    if (isav) av_clear((AV*) ssv);
    else      hv_clear((HV*) ssv);
    SHARED_RELEASE;
    return (0);
}

/* Free magic for PERL_MAGIC_tied(P) */
static int
sharedsv_array_mg_free(pTHX_ SV *sv, MAGIC *mg)
{
    PERL_UNUSED_ARG(sv);
    S_sharedsv_dec(aTHX_(SV*)mg->mg_ptr);
    return (0);
}

/*
 * Copy magic for PERL_MAGIC_tied(P)
 * This is called when perl is about to access an element of
 * the array -
 */
#if PERL_VERSION >= 11
static int
sharedsv_array_mg_copy(pTHX_SV *sv, MAGIC* mg,  
                SV *nsv, const char *name, I32 namlen)
#else
static int
sharedsv_array_mg_copy(pTHX_SV *sv, MAGIC* mg,
SV *nsv, const char *name, int namlen)
#endif
{
  MAGIC *nmg = sv_magicext(nsv,mg->mg_obj,
      toLOWER(mg->mg_type),&sharedsv_elem_vtbl,
      name, namlen);
  PERL_UNUSED_ARG(sv);
  nmg->mg_flags |= MGf_DUP;
  return (1);
}

/* Called during cloning of PERL_MAGIC_tied(P) magic in new thread */

static int
sharedsv_array_mg_dup(pTHX_MAGIC *mg, CLONE_PARAMS *param)
{
  PERL_UNUSED_ARG(param);
  SvREFCNT_inc_void((SV*)mg->mg_ptr);
  assert(mg->mg_flags & MGf_DUP);
  return (0);
}

const MGVTBL sharedsv_array_vtbl = {
  0,  /* get */
  0,  /* set */
  sharedsv_array_mg_FETCHSIZE,  /* len */
  sharedsv_array_mg_CLEAR,     /* clear */
  sharedsv_array_mg_free,      /* free */
  sharedsv_array_mg_copy,      /* copy */
  sharedsv_array_mg_dup,       /* dup */
  #ifdef MGf_LOCAL
    0,  /* local */
  #endif
};

/* Recursive locks on a sharedsv.
 * Locks are dynamically scoped at the level of the first lock.
 */

/*
 static void
 Perl_sharedsv_lock(pTHX_SV *ssv)
 {
   user_lock *ul;
   if (! ssv)
     return;
   ul = S_get_userlock(aTHX_ssv, 1);
   recursive_lock_acquire(aTHX_ &ul->lock, __FILE__, __LINE__);
   }
 */
/* Handles calls from lock() builtin via PL_lockhook */

static void
Perl_sharedsv_locksv(pTHX_ SV *sv)
{
    SV *ssv;

    if (SvROK(sv))
        sv = SvRV(sv);
    ssv = Perl_sharedsv_find(aTHX_ sv);
    if (!ssv)
        croak("lock can only be used on shared values");
    Perl_sharedsv_lock(aTHX_ ssv);
}

/* Can a shared object be destroyed?
* True if not a shared,
* or if destroying last proxy on a shared object
*/
#ifdef PL_destroyhook
static bool
Perl_shared_object_destroy(pTHX_ SV *sv)
{
    SV *ssv;

    if (SvROK(sv))
        sv = SvRV(sv);
    ssv = Perl_sharedsv_find(aTHX_ sv);
    return (!ssv || (SvREFCNT(ssv) <= 1));
}
#endif

/* veto signal dispatch if we have the lock */
#ifdef PL_signalhook

STATIC despatch_signals_proc_t prev_signal_hook = NULL;

STATIC void
S_shared_signal_hook(pTHX) {
    int us;

    MUTEX_LOCK(&PL_sharedsv_lock.mutex);
    us = (PL_sharedsv_lock.owner == aTHX);
    MUTEX_UNLOCK(&PL_sharedsv_lock.mutex);
    if (us)
        return; /* try again later */
/* Saves a space for keeping SVs wider than an interpreter. */

static void
Perl_sharedsv_init(pTHX)
{
    dTHXc;
    PL_sharedsv_space = perl_alloc();
    perl_construct(PL_sharedsv_space);
    /* The pair above leaves us in shared context (what dTHX would get),
     * but aTHX still points to caller context */
    aTHX = PL_sharedsv_space;
    LEAVE; /* This balances the ENTER at the end of perl_construct. */
    PERL_SET_CONTEXT((aTHX = caller_perl));
    recursive_lock_init(aTHX_ &PL_sharedsv_lock);
    PL_lockhook = &perl_sharedsv_locksv;
    PL_sharehook = &perl_sharedsv_share;
    #ifdef PL_destroyhook
    PL_destroyhook = &Perl_shared_object_destroy;
    #endif
    #ifdef PL_signalhook
    if (!prev_signal_hook) {
        prev_signal_hook = PL_signalhook;
        PL_signalhook = &S_shared_signal_hook;
    }
    #endif
    }
    }
    #endif /* USE_ITHREADS */

#ifdef USE_ITHREADS

MODULE = threads::shared PACKAGE = threads::shared::tie

PROTOTYPES: DISABLE

#endif USE_ITHREADS

void
PUSH(SV *obj, ...)

CODE:
    dTHXc;
    SV *sobj = SHAREDSV_FROM_OBJ(obj);
    int ii;
    for (ii = 1; ii < items; ii++) {
        SV* tmp = newSVsv(ST(ii));
        SV *stmp;
void UNSHIFT(SV *obj, ...)
CODE:
dTHXc;
SV *sobj = SHAREDSV_FROM_OBJ(obj);
int ii;
ENTER_LOCK;
SHARED_CONTEXT;
av_unshift((AV*)sobj, items - 1);
CALLER_CONTEXT;
for (ii = 1; ii < items; ii++) {
    SV *tmp = newSVsv(ST(ii));
    U32 dualvar_flags = DUALVAR_FLAGS(tmp);
    SV *stmp = S_sharedsv_new_shared(aTHX_ tmp);
    sharedsv_scalar_store(aTHX_ tmp, stmp);
    SHARED_CONTEXT;
    SvFLAGS(stmp) |= dualvar_flags;
    av_store((AV*) sobj, ii - 1, stmp);
    SvREFCNT_inc_void(stmp);
    CALLER_CONTEXT;
    SvREFCNT_dec(tmp);
}
LEAVE_LOCK;

void POP(SV *obj)
CODE:
dTHXc;
SV *sobj = SHAREDSV_FROM_OBJ(obj);
SV* ssv;
ENTER_LOCK;
SHARED_CONTEXT;
ssv = av_pop((AV*)sobj);
CALLER_CONTEXT;
void SHIFT(SV *obj)

CODE:
    dTHXc;
    SV *sobj = SHAREDV_FROM_OBJ(obj);
    SV* ssv;
    ENTER_LOCK;
    SHARED_CONTEXT;
    ssv = av_shift((AV*)sobj);
    CALLER_CONTEXT;
    ST(0) = sv_newmortal();
    Perl_sharedsv_associate(aTHX_ ST(0), ssv);
    SvREFCNT_dec(ssv);
    LEAVE_LOCK;
    /* XSRETURN(1); - implied */

void EXTEND(SV *obj, IV count)

CODE:
    dTHXc;
    SV *sobj = SHAREDV_FROM_OBJ(obj);
    SHARED_EDIT;
    av_extend((AV*)sobj, count);
    SHARED_RELEASE;

void STORESIZE(SV *obj,IV count)

CODE:
    dTHXc;
    SV *ssv = SHAREDV_FROM_OBJ(obj);

    SHARED_EDIT;
    assert(SvTYPE(ssv) == SVt_PVAV);
    if (!PL_dirty) {
        SV **svp = AvARRAY((AV *)ssv);
        I32 ix = AvFILLp((AV *)ssv);
        for (ix >= count; ix--) {
            SV *sv = svp[ix];
            if (!sv)
continue;
if ( (SvOBJECT(sv) || (SvROK(sv) && (sv = SvRV(sv)))
&& SvREFCNT(sv) == 1 )
{
    SV *tmp;
    PERL_SET_CONTEXT((aTHX = caller_perl));
    tmp = sv_newmortal();
    sv_upgrade(tmp, SVt_RV);
    get_RV(tmp, sv);
    PERL_SET_CONTEXT((aTHX = PL_sharedsv_space));
}
}

av_fill((AV*) ssv, count - 1);
SHARED_RELEASE;

void
EXISTS(SV *obj, SV *index)
CODE:
dTHXc;
SV *sobj = SHAREDSV_FROM_OBJ(obj);
bool exists;
if (SvTYPE(sobj) == SVt_PVAV) {
    SHARED_EDIT;
    exists = av_exists((AV*) sobj, SvIV(index));
} else {
    I32 len;
    STRLEN slen;
    char *key = SvPVutf8(index, slen);
    len = slen;
    if (SvUTF8(index)) {
        len = -len;
    }
    SHARED_EDIT;
    exists = hv_exists((HV*) sobj, key, len);
}
SHARED_RELEASE;
ST(0) = (exists) ? &PL_sv_yes : &PL_sv_no;
/* XSRETURN(1); - implied */

void
FIRSTKEY(SV *obj)
CODE:
dTHXc;
SV *sobj = SHAREDSV_FROM_OBJ(obj);
char* key = NULL;
I32 len = 0;
HE* entry;
ENTER_LOCK;
SHARED_CONTEXT;
hv_iterinit((HV*) sobj);
entry = hv_iternext((HV*) sobj);
if (entry) {
    I32 utf8 = HeKUTF8(entry);
    key = hv_iterkey(entry,&len);
    CALLER_CONTEXT;
    ST(0) = newSVpvn_flags(key, len, SVs_TEMP | (utf8 ? SVf_UTF8 : 0));
} else {
    CALLER_CONTEXT;
    ST(0) = &PL_sv_undef;
}
LEAVE_LOCK;
/* XSRETURN(1); - implied */

void NEXTKEY(SV *obj, SV *oldkey)
CODE:
dTHXc;
SV *sobj = SHAREDSV_FROM_OBJ(obj);
char* key = NULL;
I32 len = 0;
HE* entry;

PERL_UNUSED_VAR(oldkey);

ENTER_LOCK;
SHARED_CONTEXT;
entry = hv_iternext((HV*) sobj);
if (entry) {
    I32 utf8 = HeKUTF8(entry);
    key = hv_iterkey(entry,&len);
    CALLER_CONTEXT;
    ST(0) = newSVpvn_flags(key, len, SVs_TEMP | (utf8 ? SVf_UTF8 : 0));
} else {
    CALLERCONTEXT;
    ST(0) = &PL_sv_undef;
}
LEAVE_LOCK;
/* XSRETURN(1); - implied */
PROTOTYPES: ENABLE

void
_id(SV *myref)

PROTOTYPE: void

PREINIT:
SV *ssv;

CODE:
  myref = SvRV(myref);
  if (SvMAGICAL(myref))
    mg_get(myref);
  if (SvROK(myref))
    myref = SvRV(myref);
  ssv = Perl_sharedsv_find(aTHX_ myref);
  if (! ssv)
    XSRETURN_UNDEF;
  ST(0) = sv_2mortal(newSVuv(PTR2UV(ssv)));

/* XSRETURN(1); - implied */

void
_refcnt(SV *myref)

PROTOTYPE: void

PREINIT:
SV *ssv;

CODE:
  myref = SvRV(myref);
  if (SvROK(myref))
    myref = SvRV(myref);
  ssv = Perl_sharedsv_find(aTHX_ myref);
  if (! ssv) {
    if (ckWARN(WARN_THREADS)) {
      Perl_warner(aTHX_ packWARN(WARN_THREADS),
                   "%" SVf " is not shared", ST(0));
    }
    XSRETURN_UNDEF;
  }
  ST(0) = sv_2mortal(newSViv(SvREFCNT(ssv)));
/* XSRETURN(1); - implied */

void
share(SV *myref)

PROTOTYPE: void

CODE:
  if (! SvROK(myref))
    Perl_croak(aTHX_ "Argument to share needs to be passed as ref");
  myref = SvRV(myref);
if (SvROK(myref))
    myref = SvRV(myref);
Perl_sharedsv_share(aTHX_ myref);
ST(0) = sv_2mortal(newRV_inc(myref));
/* XSRETURN(1); - implied */

void
cond_wait(SV *ref_cond, SV *ref_lock = 0)

PROTOTYPE: \[$@%];\[$@%]
PREINIT:
    SV *ssv;
    perl_cond* user_condition;
    int locks;
    user_lock *ul;
CODE:
    if (!SvROK(ref_cond))
        Perl_croak(aTHX_ "Argument to cond_wait needs to be passed as ref");
    ref_cond = SvRV(ref_cond);
    if (SvROK(ref_cond))
        ref_cond = SvRV(ref_cond);
    ssv = Perl_sharedsv_find(aTHX_ ref_cond);
    if (! ss
        Perl_croak(aTHX_ "cond_wait can only be used on shared values");
    ul = S_get_userlock(aTHX_ ssv, 1);

    user_condition = &ul->user_cond;
    if (ref_lock && (ref_cond != ref_lock)) {
        if (!SvROK(ref_lock))
            Perl_croak(aTHX_ "cond_wait lock needs to be passed as ref");
        ref_lock = SvRV(ref_lock);
        if (SvROK(ref_lock)) ref_lock = SvRV(ref_lock);
        ssv = Perl_sharedsv_find(aTHX_ ref_lock);
        if (! ss
            Perl_croak(aTHX_ "cond_wait lock must be a shared value");
        ul = S_get_userlock(aTHX_ ssv, 1);
    }
    if (ul->lock.owner != aTHX)
        croak("You need a lock before you can cond_wait");

/* Stealing the members of the lock object worries me - NI-S */
MUTEX_LOCK(&ul->lock.mutex);
ul->lock.owner = NULL;
locks = ul->lock.locks;
ul->lock.locks = 0;

/* Since we are releasing the lock here, we need to tell other
* people that it is ok to go ahead and use it */
COND_SIGNAL(&ul->lock.cond);
COND_WAIT(user_condition, &ul->lock.mutex);
while (ul->lock.owner != NULL) {
  /* OK -- must reacquire the lock */
  COND_WAIT(&ul->lock.cond, &ul->lock.mutex);
}
ul->lock.owner = aTHX;
ul->lock.locks = locks;
MUTEX_UNLOCK(&ul->lock.mutex);

int
cond_timedwait(SV *ref_cond, double abs, SV *ref_lock = 0)

PROTOTYPE: [|$@%]$;[|$@%]
PREINIT:
  SV *ssv;
  perl_cond* user_condition;
  int locks;
  user_lock *ul;
CODE:
if (! SvROK(ref_cond))
  Perl_croak(aTHX_ "Argument to cond_timedwait needs to be passed as ref");
ref_cond = SvRV(ref_cond);
if (SvROK(ref_cond))
  ref_cond = SvRV(ref_cond);
ssv = Perl_sharedsv_find(aTHX_ ref_cond);
if (! ssv)
  Perl_croak(aTHX_ "cond_timedwait can only be used on shared values");
ul = S_get_userlock(aTHX_ ssv, 1);

user_condition = &ul->user_cond;
if (ref_lock && (ref_cond != ref_lock)) {
  if (! SvROK(ref_lock))
    Perl_croak(aTHX_ "cond_timedwait lock needs to be passed as ref");
  ref_lock = SvRV(ref_lock);
  if (SvROK(ref_lock)) ref_lock = SvRV(ref_lock);
  ssv = Perl_sharedsv_find(aTHX_ ref_lock);
  if (! ssv)
    Perl_croak(aTHX_ "cond_timedwait lock must be a shared value");
  ul = S_get_userlock(aTHX_ ssv, 1);
}
if (ul->lock.owner != aTHX)
  Perl_croak(aTHX_ "You need a lock before you can cond_wait");

MUTEX_LOCK(&ul->lock.mutex);
ul->lock.owner = NULL;
locks = ul->lock.locks;
ul->lock.locks = 0;
/* Since we are releasing the lock here, we need to tell other
 * people that it is ok to go ahead and use it */
COND_SIGNAL(&ul->lock.cond);
RETVAL = Perl_sharedsv_cond_timedwait(user_condition, &ul->lock.mutex, abs);
while (ul->lock.owner != NULL) {
    /* OK -- must reacquire the lock... */
    COND_WAIT(&ul->lock.cond, &ul->lock.mutex);
}
ul->lock.owner = aTHX;
ul->lock.locks = locks;
MUTEX_UNLOCK(&ul->lock.mutex);

if (RETVAL == 0)
    XSRETURN_UNDEF;

OUTPUT:
RETURN RETVAL

void
cond_signal(SV *myref)
PROTOTYPE: \[$@%]
PREINIT:
SV *ssv;
user_lock *ul;
CODE:
if (! SvROK(myref))
    Perl_croak(aTHX_ "Argument to cond_signal needs to be passed as ref");
myref = SvRV(myref);
if (SvROK(myref))
    myref = SvRV(myref);
ssv = Perl_sharedsv_find(aTHX_ myref);
if (! ss)
    Perl_croak(aTHX_ "cond_signal can only be used on shared values");
ul = S_get_userlock(aTHX_ ss, 1);
if (ckWARN(WARN_THREADS) && ul->lock.owner != aTHX) {
    Perl_warner(aTHX_ packWARN(WARN_THREADS),
        "cond_signal() called on unlocked variable");
}
COND_SIGNAL(&ul->user_cond);

void
cond_broadcast(SV *myref)
PROTOTYPE: \[$@%]
PREINIT:
SV *ssv;
user_lock *ul;
CODE:
if (! SvROK(myref))
    Perl_croak(aTHX_ "Argument to cond_broadcast needs to be passed as ref");
myref = SvRV(myref);
if (SvROK(myref))
    myref = SvRV(myref);
ssv = Perl_sharedsv_find(aTHX_ myref);
if (! ssv)
    Perl_croak(aTHX_ "cond_broadcast can only be used on shared values");
ul = S_get_userlock(aTHX_ ssv, 1);
if (ckWARN(WARN_THREADS) & ul->lock.owner != aTHX) {
    Perl_warner(aTHX_ packWARN(WARN_THREADS),
        "cond_broadcast() called on unlocked variable");
}
COND_BROADCAST(&ul->user_cond);

void
bless(SV* myref, ...)
PROTOTYPE: $;$
PREINIT:
    HV* stash;
    SV *ssv;
CODE:
    if (items == 1) {
        stash = CopSTASH(PL_curcop);
    } else {
        SV* classname = ST(1);
        STRLEN len;
        char *ptr;

        if (classname &
            ! SvGMAGICAL(classname) &
            ! SvAMAGIC(classname) &
            ! SvROK(classname))
                {
                    Perl_croak(aTHX_ "Attempt to bless into a reference");
                }
        ptr = SvPV(classname, len);
        if (ckWARN(WARN_MISC) & len == 0) {
            Perl_warner(aTHX_ packWARN(WARN_MISC),
                "Explicit blessing to " (assuming package main");
        }
        stash = gv_stashpvn(ptr, len, TRUE);
    }
SvREFCNT_inc_void(myref);
    (void)sv_bless(myref, stash);
    ST(0) = sv_2mortal(myref);
    ssv = Perl_sharedsv_find(aTHX_ myref);
if (ssv) {
    dTHXc;
    ENTER_LOCK;
    SHAREDCONTEXT;
    {
        SV* fake_stash = newSVpv(HvNAME_get(stash), 0);
        (void)sv_bless(ssv, (HV*)fake_stash);
    }
    CALLERCONTEXT;
    LEAVELOCK;
}
/* XSRETURN(1); - implied */
#endif /* USE_ITHREADS */

BOOT: /* USE_ITHREADS */
{
    ifdef USE_ITHREADS
        Perl_sharedsv_init(aTHX);
    endif /* USE_ITHREADS */
}

Found in path(s):
* /opt/cola/permits/1162151875_1620796941.46/0/perl-threads-shared-1.58-1.el8-1.src.rpm-cosi-expand-archive-xgcMLYFw/threads-shared-1.58.tar.gz-cosi-expand-archive-X0tVMhOP/threads-shared-1.58/shared.xs

1.568 libsepol 2.6-2.debian

1.568.1 Available under license:
This is the Debian packe for libsepol, and it is built from sources obtained from http://userspace.selinuxproject.org/releases/current/devel/

This package was debianized by Russell Coker <russell@coker.com.au> on Fri, 20 Aug 2004 17:26:18 +1000.

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Manoj Srivastava <srivasta@debian.org>
arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6eeb27

1.569 python3-babel 2.5.1 5.el8

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1.570 python3-xstatic-jquery-migrate 1.2.1.1
13.el8ost

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Metadata-Version: 1.0
Name: XStatic-JQuery-Migrate
Version: 1.2.1.1
Summary: JQuery-Migrate 1.2.1 (XStatic packaging standard)
Home-page: https://github.com/jquery/jquery-migrate
Author: Radomir Dopieralski
Author-email: openstack@sheep.art.pl
License: (same as JQuery-Migrate)
Description: XStatic-JQuery-Migrate

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

JQuery-Migrate JavaScript library packaged for setuptools (easy_install) / pip.

This package is intended to be used by **any** project that needs these files.

It intentionally does **not** provide any extra code except some metadata
**nor** has any extra requirements. You MAY use some minimal support code from
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You can find more info about the xstatic packaging way in the package `XStatic`.

Keywords: jquery_migrate xstatic
Platform: any

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* /opt/cola/permits/1162150607_1620790540.50/python-XStatic-JQuery-Migrate-1.2.1.1-13.el8ost.src.rpm-cosi-expand-archive-noWTsn73/python-XStatic-JQuery-Migrate.spec

1.571 multipart-post 2.0.0

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```ruby
## multipart-post

* http://github.com/nicksieger/multipart-post

![build status](https://travis-ci.org/nicksieger/multipart-post.png)

#### DESCRIPTION:

Adds a streamy multipart form post capability to Net::HTTP. Also supports other methods besides POST.

#### FEATURES/PROBLEMS:

* Appears to actually work. A good feature to have.
* Encapsulates posting of file/binary parts and name/value parameter parts, similar to most browsers’ file upload forms.
* Provides an UploadIO helper class to prepare IO objects for inclusion in the params hash of the multipart post object.

#### SYNOPSIS:

```ruby
require 'net/http/post/multipart'

url = URI.parse('http://www.example.com/upload')
File.open("./image.jpg") do |jpg|
  req = Net::HTTP::Post::Multipart.new url.path,
  "file" => UploadIO.new(jpg, "image/jpeg", "image.jpg")
  res = Net::HTTP.start(url.host, url.port) do |http|
    http.request(req)
  end
end
```

To post multiple files or attachments, simply include multiple parameters with UploadIO values:
require 'net/http/post/multipart'

url = URI.parse('http://www.example.com/upload')
req = Net::HTTP::Post::Multipart.new url.path,
  "file1" => UploadIO.new(File.new("./image.jpg"), "image/jpeg", "image.jpg"),
  "file2" => UploadIO.new(File.new("./image2.jpg"), "image/jpeg", "image2.jpg")
res = Net::HTTP.start(url.host, url.port) do |http|
  http.request(req)
end

#### REQUIREMENTS:

None

#### INSTALL:

gem install multipart-post

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* /opt/cola/permits/1110790324_1606853731.04/0/socketry-multipart-post-v2-0-0-0-g6787560-tar-gz/socketry-multipart-post-ee8c6ec/README.md
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1.573 libatasmart 0.19 14.el8
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1.579 zlib 1.2.8.dfsg-5.debian

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

Acknowledgments:

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1.580 libfastjson 0.99.8 2.el8

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1.581 pip 18.1

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1.582 python3-xstatic-d3 3.5.17.0 6.el8ost

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Found in path(s):
* /opt/cola/permits/1162153521_1620793328.68/0/python-XStatic-D3-3.5.17.0-6.el8ost.src.rpm-cosi-expand-archive-PQsY4Byr/python-XStatic-D3.spec

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Metadata-Version: 1.0
Name: XStatic-D3
Version: 3.5.17.0
Summary: D3 3.5.17 (XStatic packaging standard)
Home-page: http://d3js.org/
Author: Radomir Dopieralski
Author-email: openstack@sheep.art.pl
License: BSD
Description: XStatic-D3

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

D3 JavaScript library packaged for setuptools (easy_install) / pip.

This package is intended to be used by **any** project that needs these files.

It intentionally does **not** provide any extra code except some metadata **nor** has any extra requirements. You MAY use some minimal support code from the XStatic base package, if you like.

You can find more info about the xstatic packaging way in the package `XStatic`.

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

Keywords: d3 xstatic
Platform: any

Found in path(s):
* /opt/cola/permits/1162153521_1620793328.68/0/python-XStatic-D3-3.5.17.0-6.el8ost.src.rpm-cosi-expand-
1.583 python3-mistralclient 3.10.0
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1.584 libproxy 0.4.15 5.2.el8
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1.585 python3-bcrypt 3.1.6 2.el8ost
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1.586 corosynclib 3.0.3 2.el8
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1.587 python3-xstatic-jquery224 2.2.4.1

3.el8ost

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  Metadata-Version: 1.2
  Name: XStatic-jQuery
  Version: 2.2.4.1
  Summary: jQuery 2.2.4 (XStatic packaging standard)
  Home-page: https://jquery.com/
  Maintainer: Thomas Waldmann
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jQuery javascript library packaged for setuptools (easy_install) / pip.

This package is intended to be used by **any** project that needs these files.

It intentionally does **not** provide any extra code except some metadata **nor** has any extra requirements. You MAY use some minimal support code from the XStatic base package, if you like.

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Keywords: jquery xstatic
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Found in path(s):
* /opt/cola/permits/1162152748_1620797785.25/0/python-XStatic-jQuery224-2.2.4.1-3.el8ost.src.rpm-cosi-expand-archive-LFDWbB10/XStatic-jQuery-2.2.4.1.tar.gz-cosi-expand-archive-XiRPVkJ84/XStatic-jQuery-2.2.4.1/XStatic_jQuery.egg-info/PKG-INFO
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1.588 libxkbcommon 0.9.1 1.el8

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1.594 ncurses 6.1 7.20180224.el8

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-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
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1.595 tar 1.30 4.el8
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"This License" refers to version 3 of the GNU General Public License.

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

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

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

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

To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

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

An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

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

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

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

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

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

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A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <https://www.gnu.org/licenses/>.

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NOTES ON COPYRIGHTS AND LICENSES

Some terminology:

A "copyright notice" consists of one or a few lines of this format: "Copyright (C) 2006, 2007 Free Software Foundation, Inc."

A "license notice" is a statement of permissions, and is usually much
longer, eg the text "GNU Emacs is free software...".

Summary for the impatient:

1. Don't add code to Emacs written by someone other than yourself without thinking about the legal aspect. Even if the changes are trivial, consider if they combine with previous changes by the same author to make a non-trivial total. If so, make sure they have an assignment. If adding a whole file adjust the copyright statements in the file.

2. When installing code written by someone else, the commit should be in the name of the author of the code, not the person who installs it. Also use commit's "--author" option. Do not install any of your own changes in the same commit.

3. With images, add the legal info to a README file in the directory containing the image.

4. If you add a lot of text to a previously trivial file that had no legal notices, consider if you should add a copyright statement.

5. Please don't just add an FSF copyright without checking that is the right thing to do.

Every non-trivial file distributed through the Emacs repository should be self-explanatory in terms of copyright and license. This includes files that are not distributed in Emacs releases (for example, the admin/ directory), because the whole Emacs repository is publicly available.

The definition of triviality is a little vague, but a rule of thumb is that any file with less than 15 lines of actual content is trivial. If a file is auto-generated (eg ldefs-boot.el) from another one in the repository, then it does not really matter about adding a copyright statement to the generated file.

Legal advice says that we could, if we wished, put a license notice even in trivial files, because copyright law in general looks at the overall work as a whole. It is not _necessary_ to do so, and rms prefers that we do not. This means one needs to take care that trivial files do not grow and become non-trivial without having a license added. NB consequently, if you add a lot of text to a small file, consider whether your changes have made the file worthy of a copyright notice, and if so, please add one.
It can be helpful to put a reminder comment at the start of a trivial file, eg: "add a license notice if this grows to > 10 lines of code".

The years in the copyright notice should be updated every year (see file "years" in this directory). The PDF versions of refcards etc should display copyright notices (an exception to the rule about "generated" files), but these can just display the latest year. The full list of years should be kept in comments in the source file. If these are distributed in the repository, check in a regenerated version when the tex files are updated.

Copyright changes should be propagated to any associated repositories (eg Gnus, MH-E), but I think in every case this happens automatically (?).

All README (and other such text files) that are non-trivial should contain copyright statements and GPL license notices, exactly as .el files do (see e.g. README in the top-level directory). Before 2007, we used a simple, short statement permitting copying and modification provided legal notices were retained. In Feb 2007 we switched to the standard GPL text, on legal advice. Some older text files in etc/ should, however, keep their current licenses (see below for list).

For image files, the copyright and license details should be recorded in a README file in each directory with images. (Legal advice says that we need not add notices to each image file individually, if they allow for that.). It is recommended to use the word "convert" to describe the automatic process of changing an image from one format to another (https://lists.gnu.org/r/emacs-devel/2007-02/msg00618.html).

When installing a file with an "unusual" license (after checking first it is ok), put a copy of the copyright and license in the file (if possible. It's ok if this makes the file incompatible with its original format, if it can still be used by Emacs), or in a README file in the relevant directory.

The vast majority of files are copyright FSF and distributed under the GPL. A few files (mainly related to language and charset support) are copyright AIST alone, or both AIST and FSF. (Contact Kenichi Handa with questions about legal issues in such files.) In all these cases, the copyright years in each file should be updated each year.

There are some exceptions to the points in the previous paragraph, and these are listed below for reference, together with any files where the copyright needs to be updated in "unusual" ways.

If you find any other such cases, please consult to check they are ok,
and note them in this file. This includes missing copyright notices, and "odd" copyright holders. In most cases, individual authors should not appear in copyright statements. Either the copyright has been assigned (check copyright.list) to the FSF (in which case the original author should be removed and the year(s) transferred to the FSF); or else it is possible the file should not be in Emacs at all (please report!).

Note that it seems painfully clear that one cannot rely on commit logs, or even change log entries, for older changes. People often installed changes from others, without recording the true authorship.

[For reference, most of these points were established via email with rms, 2007/1, "Copyright years".

In March 2011, information on some files no longer included was removed. Consult older versions of this document if interested.]

\[lisp/version.el \hspace{0.5cm} \# emacs-copyright\]
\[lib-src/ebrowse.c \hspace{0.5cm} \# version\]
\[lib-src/etags.c \hspace{0.5cm} \# print_version\]
\[lib-src/rcs2log \hspace{0.5cm} \# Copyright\]
\[Cocoa/Emacs.base/Contents/Info.plist\]
\[Cocoa/Emacs.base/Contents/Resources/English.lproj/InfoPlist.strings\]
\[GNUSstep/Emacs.base/Resources/Info-gnustep.plist\]
\[\texttt{\textquoteleft set-copyright\textquoteright} in admin.el will do all the above.\]

\[aclocal.m4\]
\[configure\]
\[m4/*.m4\]
- These files are copyright FSF, with unlimited permission to copy, distribute and modify, so long as the copyright notice is preserved. Exception: m4/pkg.m4 is copyright Scott James Remnant; it is distributed under the same terms as for the rest of Emacs.

\[lib/Makefile.in\]
- copyright FSF, with MIT-like license

\[build-aux/install-sh\]
- this file is copyright MIT, which is OK. Leave the copyright alone.

\[etc/refcards/*.tex\]
also update the \texttt{\textbackslash def\textbackslash defyear} macro for the latest year.

\[etc/future-bug\]
- doesn't need a humorless disclaimer, because Karl Fogel says we can consider it part of Emacs, and he has a blanker disclaimer for
Emacs changes. (email to rgm "[Emacs-commit] emacs/etc future-bug", 2007028)

/etc/letter.pbm,letter.xpm
- trivial, no notice needed.

/etc/FTP, ORDERS
- trivial (at time of writing), no license needed

/etc/HELLO
standard notices. Just a note that although the file itself is not
really copyrightable, in the wider context of it being part of
Emacs (and written by those with assignments), a standard notice is
fine.

/etc/MAILINGLISTS
rms: simple license is fine for this file

leim/CXTERM-DIC/4Corner.tit, ARRAY30.tit, CCDOSPY.tit, ECDICT.tit,
ETZY.tit, PY-b5.tit, Punct-b5.tit, Punct.tit, QI-b5.tit, QI.tit,
SW.tit, TONEPY.tit, ZOZY.tit
- leave the copyrights alone.

leim/MISC-DIC/CTLau-b5.html, CTLauc.html, cangjie-table.b5, cangjie-table.cns,
pinyin.map, ziranma.cin
- leave the copyright alone.
Note that pinyin.map, ziranma.cin (and hence the generated
leim/quail/PY.el, ZIRANMA.el) are under GPLv1 or later.

leim/SKK-DIC/ SKK-JISYO.L
ja-dic/ja-dic.el
(the latter is auto-generated from the former). Leave the copyright alone.

lib-src/etags.c
Copyright information is duplicated in etc/ETAGS.README. Update that
file too.

Until 2007 etags.c was described as being copyright FSF and Ken Arnold.
After some investigation in Feb 2007, then to the best of our
knowledge we believe that the original 1984 Emacs version was based
on the version in BSD4.2. See for example this 1985 post from Ken Arnold:
<http://groups.google.com/group/mod.sources/browse_thread/thread/ffe5c55845af640a9>
I have received enough requests for the current source to ctags
to post it. Here is the latest version (what will go out with
4.3, modulo any bugs fixed during the beta period). It is the
4.2 ctags with recognition of yacc and lex tags added.
See also a 1984 version of ctags (no copyright) posted to net.sources:
<http://groups.google.com/group/net.sources/msg/a21b6c21be12a98d>
Version of etags.c in emacs-16.56 duplicates comment typos.

Accordingly, in Feb 2007 we added a 1984 copyright for the
University of California and a revised BSD license. The terms of
this require that the full license details be available in binary
distributions - hence the file etc/ETAGS.README. The fact that the
--version output just says "Copyright <year> FSF" is apparently OK
from a legal point of view.

lisp/cedet/semantic/imenu.el
- See https://lists.gnu.org/r/emacs-devel/2010-03/msg00410.html
in which Eric Ludlam established that the remaining contributions
from authors other than himself were negligible.

lisp/play/tetris.el
- no special rules about the copyright. We note here that we believe
(2007/1) there is no problem with our use of the name "tetris" or
the concept.
rms: "My understanding is that game rules as such are not copyrightable."
rms: Legal advice is that we are ok and need not worry about this.

lisp/net/tramp.el
- there are also copyrights in the body of the file. Update these too.

lwlib/
rms (2007/02/17): "lwlib is not assigned to the FSF; we don't consider
it part of Emacs. [...] Therefore non-FSF copyrights are ok in lwlib."

NB don't change the GPL version used for lwlib .c and .h files (see
below).

FSF copyrights should only appear in files which have undergone
non-trivial cumulative changes from the original versions in the Lucid
Widget Library. NB this means that if you make non-trivial changes to
a file with no FSF copyright, you should add one. Also, if changes are
reverted to the extent that a file becomes basically the same as the
original version, the FSF copyright should be removed.

In my (rgm) opinion, as of Feb 2007, all the non-trivial files differ
significantly from the original versions, with the exception of
lwlib-Xm.h. Most of the changes that were made to this file have
subsequently been reverted. Therefore I removed the FSF copyright from
this file (which is arguably too trivial to merit a notice anyway). I
added FSF copyright to the following files which did not have them already: Makefile.in, lwlib-Xaw.c, lwlib-int.h (borderline), lwlib-utils.c (borderline), lwlib.c, lwlib.h.

Copyright years before the advent of public CVS in 2001 were those when I judged (from the CVS logs) that non-trivial amounts of change had taken place. I also adjusted the existing FSF years in xlwmenu.c, xlwmenu.h, and xlwmenuP.h on the same basis.

Note that until Feb 2007, the following files in lwlib were lacking notices: lwlib-int.h, lwlib.h, lwlib-Xaw.h, lwlib-Xlw.h, lwlib-utils.h

The following files did not list a Lucid copyright: xlwmenu.h, xlwmenuP.h.

To the best of our knowledge, all the code files in lwlib were originally part of the Lucid Widget Library, even if they did not say so explicitly. For example, they were all present in Lucid Emacs 19.1 in 1992. The exceptions are the two Xaw files, which did not appear till Lucid Emacs 19.9 in 1994. The file lwlib-Xaw.h is too trivial to merit a copyright notice, but would presumably have the same one as lwlib-Xaw.c. We have been unable to find a true standalone version of LWL, if there was such a thing, to check definitively.

To clarify the situation, in Feb 2007 we added Lucid copyrights and GPL notices to those files lacking either that were non-trivial, namely: lwlib-int.h, lwlib.h, xlwmenu.h, xlwmenuP.h. This represents our best understanding of the legal status of these files. We also clarified the notices in Makefile.in, which was originally the Makefile auto-generated from Lucid's Imakefile.

As of Feb 2007, the following files are considered too trivial for notices: lwlib-Xaw.h, lwlib-Xlw.h, lwlib-utils.h.

The version of lwlib/ first installed in Emacs seems to be the same as that used in Lucid Emacs 19.8 (released 6-sep-93); except the two Xaw files, which did not appear till Athena support was added in Lucid Emacs 19.9. In Lucid Emacs 19.1, all files were under GPLv1 or later, but by Lucid Emacs 19.8, lwlib.c and xlwmenu.c had been switched to v2 or later. These are the versions that were first installed in Emacs. So in GNU Emacs, these two files have been under v2 or later since 1994.

It seems that it was the intention of Lucid to use v1 or later (excepting the two files mentioned previously); so this is the license we have used when adding notices to code that did not have notices originally. Although we have the legal right to switch to v2 or later, rms prefers that we do not do so.
doc/*/doclicense.texi
- leave the copyright alone in this imported file.

doc/*/texi - All manuals should be under GFDL (but see below), and
should include a copy of it, so that they can be distributed
separately. faq.texi has a different license, for some reason no-one
can remember.

doc/misc/mh-e.texi is dual-licensed (GPL and GFDL) per agreement with
FSF (reconfirmed by rms Aug 25 2008). Discussion with
licensing@fsf.org starting on Thu, 07 Aug 2003 with subject:
"[gnu.org #58812] Changing license of MH-E manual"

msdos/sed*.inp - These files are copyright FSF and distributed under
an MIT-like license.

oldXMenu/
Keep the "copyright.h" method used by X11, rather than moving the
licenses into the files. Note that the original X10.h did not use
copyright.h, but had an explicit notice, which we retain.

If you make non-trivial changes to a file which does not have an FSF
notice, add one and a GPL notice (as per Activate.c). If changes to a
file are reverted such that it becomes essentially the same as the
original X11 version, remove the FSF notice and GPL.

Only the files which differ significantly from the original X11
versions should have FSF copyright and GPL notices. At time of writing
(Feb 2007), this is: Activate.c, Create.c, Internal.c. I (rgm)
established this by diff'ing the current files against those in X11R1,
and when I found significant differences looking in the ChangeLog for
the years they originated (the CVS logs are truncated before 1999). I
therefore removed the FSF notices (added in 200x) from the other
files. There are some borderline cases IMO: AddSel.c, InsSel.c,
XMakeAssoc.c, XMenu.h. For these I erred on the side of NOT adding FSF
notices.

With regards to whether the files we have changed should have GPL
added or not, rms says (2007-02-25, "oldXmenu issues"):

It does not make much difference, because oldXmenu is obsolete
except for use in Emacs (and it is not normally used in Emacs any
So, to make things simple, please put our changes under the GPL.

insque.c had no copyright notice until 2005. The version of insque.c added to Emacs 1992-01-27 is essentially the same as insremque.c added to glic three days later by Roland McGrath, with an FSF copyright and GPL, but no ChangeLog entry:

To the best of his recollection, McGrath (who has a copyright assignment) was the author of this file (email from roland at frob.com to rms, 2007-02-23, "Where did insque.c come from?"). The FSF copyright and GPL in this file are therefore correct as far as we understand it.

Imakefile had no legal info in Feb 2007, but was obviously based on the X11 version (which also had no explicit legal info). As it was unused, I removed it. It would have the same MIT copyright as Makefile.in does now.

src/gmalloc.c
- contains numerous copyrights from the GNU C library. Leave them alone.

nt/inc/dirent.h
- see comments below. This file is OK to be released with Emacs 22, but we may want to revisit it afterwards.

** Some notes on resolved issues, for historical information only

etc/TERMS
rms: "surely written either by me or by ESR. (If you can figure out which year, I can probably tell you which.) Either way, we have papers for it." It was present in Emacs-16.56 (15-jul-85). rms: "Then I conclude it was written by me."

lisp/term/README
- had no copyright notice till Feb 2007. ChangeLog.3 suggests it was written by Eric Raymond. When asked by rms on 14 Feb 2007 he said:

I don't remember writing it, but it reads like my prose and I believe I wrote the feature(s) it's describing. So I would have been the likeliest person to write it.

Odds are that I did, but I'm not certain.
Accordingly, FSF copyright was added.

src/unexhp9k800.c
- briefly removed due to legal uncertainly Jan-Mar 2007. The relevant assignment is under "hp9k800" in copyright.list. File was written by John V. Morris at HP, and disclaimed by the author and HP. So this file is public domain.

lisp/progmodes/python.el
Dave Love alerted us to a potential legal problem:

On consultation with a lawyer, we found there was no problem:

** Issues that are "fixed" for the release of Emacs 22, but we may wish to revisit later in more detail

admin/check-doc-strings
File says it's in the public domain, but that might not make it so.

etc/e/eterm-color.ti
nt/inc/dirent.h
On legal advice from Matt Norwood, the following comment was added to these files in Feb/Mar 2007:

The code here is forced by the interface, and is not subject to copyright, constituting the only possible expression of the algorithm in this format.

With the addition of this notice, these files are OK for the upcoming Emacs-22 release. Post-release, we can revisit this issue and possibly add a list of all authors who have changed these files. (details in email from Matt Norwood to rms, 2007/02/03).

src/s/aix3-2.h, hpux8.h, hpux9.h, irix5-0.h, netbsd.h, usg5-4-2.h
[note some of these have since been merged into other files]
- all these (not obviously trivial) files were missing copyrights till Feb 2007, when FSF copyright was added. Matt Norwood advised:

For now, I think the best policy is to assume that we do have assignments from the authors (I recall many of these header files as having been originally written by rms), and to attach an FSF copyright with GPL notice. We can amend this if and when we
complete the code audit. Any additions to these files by non-assigned authors are arguably "de minimis" contributions to Emacs: small changes or suggestions to a work that are subsumed in the main authors' copyright in the entire work.

Here is my (rgm) take on the details of the above files:

? irix5-0.h
I would say started non-trivial (1993, jimb, heavily based on irix4-0.h). A few borderline non-tiny changes since.

usg5-4-2.h
started non-trivial, but was heavily based on usg5-4.h, which was and is copyright FSF. only tiny changes since installed.

aix3-2.h, hpux8.h, hpux9.h, netbsd.h
started trivial, grown in tiny changes.

netbsd.h:
Roland McGrath said to rms (2007/02/17): "I don't really remember anything about it. If I put it in without other comment, then probably I wrote it myself."

Someone might want to tweak the copyright years (for dates before 2001) that I used in all these files.

Note: erring on the side of caution, I also added notices to some files I thought might be considered non-trivial (if one includes comment) in s/:
aix4-1.h hpux10.h irix6-5.h
sol2.h

(everything with > 30 non-blank lines, which at least is _some_ kind of system)

*** These are copyright issues that need not be fixed until after Emacs 22 is released (though if they can be fixed before, that is obviously good):

Is it OK to just remove a file for legal reasons, or is something more drastic (excision from the entire repository history) needed? A removed file is still available from the repository, if suitable options are applied. (This issue obviously does not affect a release).
rms: will ask lawyer
Make sure that all files with non-standard copyrights or licenses are noted in this file.

REMOVED etc/gnu.xpm, nt/icons/emacs21.ico, nt/icons/sink.ico
- Restore if find legal info. emacs21.ico is not due to Davenport.
  Geoff Voelker checked but could not find a record of where it came from.

etc/images
Image files from GTK, Gnome are under GPLv2 (no "or later"?). RMS will contact image authors in regards to future switch to v3.

etc/TUTORIAL* (translations)
  switch to GPL (see english TUTORIAL)
rms: "We can leave the TUTORIAL translations alone until their maintainers update them."
Can adapt short license text from end of GPL translations at:
https://www.gnu.org/licenses/translations.html
Only a few sentences around the license notice need changing from previous version.
Done: TUTORIAL.eo

*** These are copyright issues still to be addressed:

None known.

** NOTES ON RELICENSING TO GPL3

The EMACS_22_BASE branch was changed to GPLv3 (or later) 2007/07/25.

Some notes:

1. There are some files in the Emacs tree which are not part of Emacs (eg those included from Gnulib). These are all copyright FSF and (at time of writing) GPL >= 2. rms says may as well leave the licenses of these alone (may import them from Gnulib again). These are:

   Gnulib:
   build-aux/config.guess
   build-aux/config.sub
   build-aux/move-if-change
Note _not_ included in the above are src/regex.[c,h] (rms: "That forked version is only in Emacs, so definitely relicense that."), and oldXMenu/insque.c (rms: "We wrote that specifically for Emacs, so definitely relicense that.").

2. The files that are copyright FSF and AIST, or AIST alone, should be and were updated, ditto the oldXMenu files with FSF copyright.

3. lwlib/

Files originally in Lucid Widget Library were left alone (excludes ChangeLog, etc), ie remain under GPL v1 or later, or v2 or later. (rms: "We may as well leave this alone, since we are never going to change it much.")

4. There are some files where the FSF holds no copyright. These were left alone:

   leim/MISC-DIC/CTLau-b5.html  >= v2
   leim/MISC-DIC/CTLau.html     >= v2
   (above included in lisp/international/titdic-cnv.el)
   leim/MISC-DIC/pinyin.map     >= v1
   leim/MISC-DIC/ziranma.cin     >= v1
   leim/SKK-DIC/SKK-JISYO.L      >= v2
   leim/SKK-DIC/README          >= v2
   leim/ja-dic/ja-dic.el        >= v2

5. At time of writing, some non-Emacs icons included from Gnome remain under GPLv2 (no "or later"). See:

   etc/images/gnus/README
   etc/images/mail/README
   etc/images/README
   nt/icons/README

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;; Inc.

;; Author: Daniel Pfeiffer <occitan@esperanto.org>
;; Keywords: maint, tools

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;;; Commentary:

;; Allows updating the copyright year and above mentioned GPL version manually
;; or when saving a file.
;; Do (add-hook 'before-save-hook 'copyright-update), or use
;; M-x customize-variable RET before-save-hook RET.

;;; Code:

(defun copyright (nil
  "Update the copyright notice in current buffer."
  :group 'tools)

(defun copyright-limit (2000
  "Don't try to update copyright beyond this position unless interactive.
  A value of nil means to search whole buffer."
)
(defcustom copyright-at-end-flag nil
"Non-nil means to search backwards from the end of the buffer for copyright.
This is useful for ChangeLogs."
:group 'copyright
:type 'boolean
:version "23.1"
::;###autoload(put 'copyright-at-end-flag 'safe-local-variable 'booleanp)

(defun copyright-regexp
  "\(\|@copyright{}\|\[Cc\]opyright\s *:?\s *\(?:(C)\)?\|\[Cc\]opyright\s *:?\s *\)
  \s *\(?:[^0-9\n]*\s *\)?\(|[1-9]\([-0-9, '/*%#\n\t\] | \s< | \s>\)*\[0-9]+\)
  "What your copyright notice looks like.
The second \( \) construct must match the years."
:group 'copyright
:type 'regexp)

(defun copyright-names-regexp ""
  "Regexp matching the names which correspond to the user.
Only copyright lines where the name matches this regexp will be updated.
This allows you to avoid adding years to a copyright notice belonging to
someone else or to a group for which you do not work."
:group 'copyright
:type 'regexp)

;; The worst that can happen is a malicious regexp that overflows in
;; the regexp matcher, a minor nuisance. It's a pain to be always
;; prompted if you want to put this in a dir-locals.el.
;;###autoload(put 'copyright-names-regexp 'safe-local-variable 'stringp)

(defun copyright-years-regexp
  "\(\s *\)\([-0-9, '/*%#\n\t\] | \s< | \s>\)*\[0-9]+\)
  "Match additional copyright notice years.
The second \( \) construct must match the years."
:group 'copyright
:type 'regexp)

;; See "Copyright Notices" in maintain.info.
;; TODO? 'end only for ranges at the end, other for all ranges.
;; Minimum limit on the size of a range?
(defun copyright-year-ranges nil
  "Non-nil if individual consecutive years should be replaced with a range.
If you use ranges, you should add an explanatory note in a README file. The function `copyright-fix-years' respects this variable.

```lisp
;;group 'copyright
:type 'boolean
:version "24.1"
```

```lisp
;;;###autoload(put 'copyright-year-ranges 'safe-local-variable 'booleanp)

(defcustom copyright-query 'function
"If non-nil, ask user before changing copyright.
When this is `function', only ask when called non-interactively."
:group 'copyright
:type '(choice (const :tag "Do not ask")
(const :tag "Ask unless interactive" function)
(other :tag "Ask" t))

;; when modifying this, also modify the comment generated by autoinsert.el

(defconst copyright-current-gpl-version "3"
"String representing the current version of the GPL or nil."
)

(defvar copyright-update t
"The function `copyright-update' sets this to nil after updating a buffer."
)

;; This is a defvar rather than a defconst, because the year can
;; change during the Emacs session.
(defvar copyright-current-year (format-time-string "%Y")
"String representing the current year."
)

(defsubst copyright-limit ()            ; re-search-forward BOUND
(and copyright-limit
 (if copyright-at-end-flag
  (- (point) copyright-limit)
 (+ (point) copyright-limit)))))

(defun copyright-re-search (regexp &optional bound noerror count)
"Re-search forward or backward depending on `copyright-at-end-flag'."
(if copyright-at-end-flag
 (re-search-backward regexp bound noerror count)
 (re-search-forward regexp bound noerror count))
)

(defun copyright-start-point ()
"Return point-min or point-max, depending on `copyright-at-end-flag'."
(if copyright-at-end-flag
 (point-max)
 (point-min))
)

(defun copyright-offset-too-large-p ()

"Return non-nil if point is too far from the edge of the buffer."

(when copyright-limit
  (if copyright-at-end-flag
      (< (point) (- (point-max) copyright-limit))
    (> (point) (+ (point-min) copyright-limit)))))

(defun copyright-find-copyright ()
  "Return non-nil if a copyright header suitable for updating is found. The header must match `copyright-regexp' and `copyright-names-regexp', if set. This function sets the match-data that `copyright-update-year' uses."
  (widen)
  (goto-char (copyright-start-point))
;; In case the regexp is rejected. This is useful because
;; copyright-update is typically called from before-save-hook where
;; such an error is very inconvenient for the user.
  (with-demoted-errors "Can't update copyright: %s"
    ;; (1) Need the extra \( \) around copyright-regexp because we
    ;; goto (match-end 1) below. See note (2) below.
    (copyright-re-search (concat \( \( \" copyright-regexp
      \}\( \( \)\( \( \)\)\)\)\)\( \( \)\( \)\)\)\)
    copyright-limit
    t)))

(defun copyright-find-end ()
  "Possibly adjust the search performed by `copyright-find-copyright'. If
the years continue onto multiple lines that are marked as comments, skips to the end of all the years."
  (while (save-excursion
    (and (eq (following-char) ?),
      (progn (forward-char 1) t)
      (progn (skip-chars-forward " \") (eolp))
      comment-start-skip
    (save-match-data
      (forward-line 1)
      (and (looking-at comment-start-skip)
        (goto-char (match-end 0)))))
    (looking-at-p copyright-years-regexp)))
  (forward-line 1)
  (re-search-forward comment-start-skip)
;; (2) Need the extra \( \) so that the years are subexp 3, as
;; they are at note (1) above.
  (re-search-forward (format "\(\%)\)" copyright-years-regexp)))

(defun copyright-update-year (replace noquery)
  ;; This uses the match-data from copyright-find-copyright/end.
  (goto-char (match-end 1))
  (copyright-find-end)
(setq copyright-current-year (format-time-string "-%Y"))
(unless (string= (buffer-substring (- (match-end 3) 2) (match-end 3))
  (substring copyright-current-year -2))
  (if (or noquery
    (save-window-excursion
      (switch-to-buffer (current-buffer))
      ;; Fixes some point-moving oddness (bug#2209).
      (save-excursion
        (y-or-n-p (if replace
          (concat "Replace copyright year(s) by "
                  copyright-current-year " ? ")
          (concat "Add " copyright-current-year
                  " to copyright? ")())))
    (if replace
      (replace-match copyright-current-year t t nil 3)
      (let ((size (save-excursion (skip-chars-backward "0-9"))))
        (if (and (eq (% (- (string-to-number copyright-current-year)
                      (string-to-number (buffer-substring
                                        (+ (point) size)
                                        (point))))
                      100) 1)
          (or (eq (char-after (+ (point) size -1)) ?-)
              (eq (char-after (+ (point) size -2)) ?-)))
          ;; This is a range so just replace the end part.
          (delete-char size)
          ;; Insert a comma with the preferred number of spaces.
          (insert
            (save-excursion
              (if (re-search-backward "[0-9][\( *[,*](0-9]"
                  (line-beginning-position) t)
                (match-string 1)
                ", ")))
            ;; If people use the ’91 ’92 ’93 scheme, do that as well.
            (if (eq (char-after (+ (point) size -3)) ?)
                (insert ?))
            ;; Finally insert the new year.
            (insert (substring copyright-current-year size)))))
            ;;###autoload
    (defun copyright-update (&optional arg interactivep)
      "Update copyright notice to indicate the current year.
      With prefix ARG, replace the years in the notice rather than adding
      the current year after them. If necessary, and
      ’copyright-current-gpl-version’ is set, any copying permissions
      following the copyright are updated as well.
      If non-nil, INTERACTIVEP tells the function to behave as when it’s called
      interactively."
      ...)
(interactive "\nPnd")
(when (or copyright-update interactivep)
  (let ((noquery (or (not copyright-query)
    (and (eq copyright-query 'function) interactivep)))))
  (save-excursion
    (save-restriction
      ;; If names-regexp doesn't match, we should not mess with
      ;; the years _or_ the GPL version.
      ;; TODO there may be multiple copyrights we should update.
      (when (copyright-find-copyright)
        (copyright-update-year arg noquery)
        (goto-char (copyright-start-point))
        (and copyright-current-gpl-version
          ;; Match the GPL version comment in .el files.
          ;; This is sensitive to line-breaks. :
          (copyright-re-search
           "the Free Software Foundation\[,;\n\W\[0-9]+\]\(\?\) of the License\]|\W\[0-9]+\]\(\?\) any later version"
           (copyright-limit) t)
          ;; Don't update if the file is already using a more recent
          ;; version than the "current" one.
          (< (string-to-number (match-string 1))
            (string-to-number copyright-current-gpl-version))
          (or noquery
            (save-match-data
             (goto-char (match-end 1))
             (save-window-excursion
              (switch-to-buffer (current-buffer))
              (y-or-n-p
               (format "Replace GPL version %s with version %s? "
                  (match-string-no-properties 1)
                  copyright-current-gpl-version)))
             (replace-match copyright-current-gpl-version t t nil 1))))
        (set (make-local-variable 'copyright-update) nil)))
    ;; If a write-file-hook returns non-nil, the file is presumed to be written.
    nil))

;; FIXME heuristic should be within 50 years of present (cf calendar).
;;;;;;autoload
(defvar copyright-year-ranges nil
  ""Convert 2 digit years to 4 digit years.
Uses heuristic: year >= 50 means 19xx, < 50 means 20xx.
If `copyright-year-ranges' (which see) is non-nil, also
independently replaces consecutive years with a range."
(interactive)
;; TODO there may be multiple copyrights we should fix.
(if (copyright-find-copyright)
(let ((s (match-beginning 3))
  (p (make-marker))
  ;; Not line-beg-pos, so we don't mess up leading whitespace.
  (copsystart (match-beginning 0))
  e last sep year prev-year first-year range-start range-end)
;; In case years are continued over multiple, commented lines.
(goto-char (match-end 1))
(copyright-find-end)
(setq e (copy-marker (1+ (match-end 3))))
(goto-char s)
(while (re-search-forward "\[0-9\]+" e t)
  (set-marker p (point))
  (goto-char (match-beginning 0))
  (setq year (string-to-number (match-string 0)))
  (and (setq sep (char-before))
    (/= (char-syntax sep) ?\s)
    (/= sep ?-)
    (insert " ")
  (when (< year 100)
    (insert (if (>= year 50) "19" "20"))
    (setq year (+ year (if (>= year 50) 1900 2000))))
  (goto-char p)
  (when copyright-year-ranges
    ;; If the previous thing was a range, don't try to tack more on.
    ;; TODO should merge into existing range if possible.
    (if (eq sep ?-)
      (setq prev-year nil
        year nil)
      (if (and prev-year (= year (1+ prev-year)))
        (setq range-end (point))
        (when (and first-year prev-year
          (> prev-year first-year))
          (goto-char range-end)
          (delete-region range-start range-end)
          (insert (format "-%d" prev-year))
          (goto-char p)))
      (setq first-year year
        range-start (point)))
  (setq prev-year year)
  (when last
    (when (and copyright-year-ranges
      first-year prev-year
      (> prev-year first-year))
      (goto-char range-end)
      (delete-region range-start range-end)
      (insert (format "-%d" prev-year)))
      (setq prev-year year))
(goto-char last)
;; Don't mess up whitespace after the years.
(skip-chars-backward "\t")
(save-restriction
  (narrow-to-region copystart (point))
;; This is clearly wrong, eg what about comment markers?
;;;  (let ((fill-prefix " "))
;; TODO do not break copyright owner over lines.
  (fill-region (point-min) (point-max)))
(set-marker e nil)
(set-marker p nil))
;; Simply reformatting the years is not copyrightable, so it does
;; not seem right to call this. Also it messes with ranges.
;;;:(copyright-update nil t)
  (message "No copyright message")))

;;;###autoload
(define-skeleton copyright
"Insert a copyright by $ORGANIZATION notice at cursor."
"Company: "
comment-start
"Copyright (C) " (format-time-string "%Y") " by 
(or (getenv "ORGANIZATION")
str)
'(if (copyright-offset-too-large-p)
  (message "Copyright extends beyond `copyright-limit' and won't be updated automatically.")
comment-end \n)

;; TODO: recurse, exclude COPYING etc.
;;;###autoload
(defun copyright-update-directory (directory match &optional fix)
"Update copyright notice for all files in DIRECTORY matching MATCH.
If FIX is non-nil, run `copyright-fix-years' instead."
(interactive "DDirectory: 
MFilenames matching (regexp): ")
(dolist (file (directory-files directory t match nil))
  (unless (file-directory-p file)
    (message "Updating file `%s'" file)
    ;; FIXME we should not use find-file+save+kill.
    (let ((enable-local-variables :safe)
      (enable-local-eval nil))
      (find-file file))
    (let ((inhibit-read-only t))
      (if fix
        (copyright-fix-years)
        (copyright-update)))
      (save-buffer)
      (kill-buffer (current-buffer)))))
(defalias 'copyright-re-search #\(regexp &optional bound noerror count\) "203/305\(n\(f\)207/306\(n\(f\)207\) [copyright-at-end-flag regexp bound noerror count re-search-backward re-search-forward\] 5 (#$ . 3072))
#@70 Return point-min or point-max, depending on 'copyright-at-end-flag'.
(defalias 'copyright-start-point #\[nil "203d/207e/207\] [copyright-at-end-flag] 1 (#$ . 3362))
#@65 Return non-nil if point is too far from the edge of the buffer.
(defalias 'copyright-offset-too-large-p #\[nil "205/203/207e/207" [copyright-limit copyright-at-end-flag] 3 (#$ . 3536))
#@218 Return non-nil if a copyright header suitable for updating is found.
The header must match 'copyright-regexp' and 'copyright-names-regexp', if set.
This function sets the match-data that 'copyright-update-year' uses.
(defalias 'copyright-find-copyright #\[nil ~"210/305 b/210/306/210/307/310/311/312/260/205/202\n\313/202/"\[\(313\)\(0/207/314/315\)\(n/210/\)316/207\] copyright-regexp copyright-names-regexp copyright-limit copyright-at-end-flag #1="#err copyright-start-point (debug error) copyright-re-search "\(" "\)\(\[ \t\]\)\(\n\)\(.*\)\(\:\)\("#" t message "Can't update copyright: %s" nil 6 (#$ . 3745))
#@175 Possibly adjust the search performed by 'copyright-find-copyright'.
If the years continue onto multiple lines that are marked as comments,
skips to the end of all the years.
(defalias 'copyright-find-end #\[nil ~"212g/304=205/430/201/206/307w/210b/205/24/205/4310\n\311/216/305y/210/312/205/313/225b/205/43/201/25y/210/315/210/313/16/17/1n\"210/202/\n\317/" [comment-start-skip save-match-data-internal copyright-years-regexp inhibit-changing-match-data 44 1 " \
\t" nil match-data #\[nil "301/302/"207" [save-match-data-internal set-match-data evaporate] 3] looking-at 0 t re-search-forward format "\\(%s\\)" 4 (#$ . 4368))
#@369 Update copyright notice to indicate the current year.
With prefix ARG, replace the years in the notice rather than adding
the current year after them.
If necessary, and 'copyright-current-gpl-version' is set, any copying permissions
following the copyright are updated as well.
If non-nil, INTERACTIVEP tells the function to behave as when it's called
interactively.
configuration] 2] switch-to-buffer y-or-n-p format "Replace GPL version %s with version %s? " match-string-noproperties replace-match nil make-local-variable copyright-limit copyright-at-end-flag save-match-data-internal
#1#] 6 (#$ . 5958) "*P\nd"])
#@208 Convert 2 digit years to 4 digit years.
Uses heuristic: year >= 50 means 19xx, < 50 means 20xx.
If `copyright-year-ranges' (which see) is non-nil, also
independently replaces consecutive years with a range.
(defalias 'copyright-fix-years #[nil "\306 \203 \307\224\310
\311\224\312\211\211\211\211\211\211\211\"#$%&\313\225b\210\314
\210\315\307\225T!#&b\210\316\317#\320#\203\331%`\312\223\210\311\224b\210\321\322\311!!`Sf\211\203f
z\323U\204f
\324U\204f\325c\210\f\326W\203\207\f\327Y\203v\330\202w\331c\210\f\211\327Y\203\204\332\202\205\333\\%b
\210'\203\320
\324=\203\235\312\211\202\320\203\255\fTU\203\255`\202\320\n\203\314\203\314\nV\203\314b\210
|\210\334\335\"c\210%b\210\f`\f%\"\2025\"\203'\203\376\n\203\376\203\376\nV\203\376b\210
|\210\334\335\"c\210\"b\210\336\312x\210\214$`}\210\337ed\"\210)#\312\211\223\210%\312\211\223.\207\340\34
1!\207" [range-end range-start first-year prev-year year sep copyright-find-copyright 3 make-marker 0 nil 1
copyright-find-end copy-marker re-search-forward "[0-9]+" t string-to-number match-string 32 45 " " 100 50 "19"
"20" 1900 2000 format "-%d" " " fill-region message "No copyright message" last e copystart p s copyright-yearranges] 12 (#$ . 7460) nil])
(put 'copyright 'no-self-insert t)
#@558 Insert a copyright by $ORGANIZATION notice at cursor.
This is a skeleton command (see `skeleton-insert').
Normally the skeleton text is inserted at point, with nothing "inside".
If there is a highlighted region, the skeleton text is wrapped
around the region text.
A prefix argument ARG says to wrap the skeleton around the next ARG words.
A prefix argument of -1 says to wrap around region, even if not highlighted.
A prefix argument of zero says to wrap around zero words---that is, nothing.
This is a way of overriding the use of a highlighted region.
(defalias 'copyright #[(&optional str arg) "\302\303#\207" [str arg skeleton-proxy-new ("Company: " comment-start
"Copyright (C) " `(format-time-string "%Y") " by " (or (getenv "ORGANIZATION") str) '(if (copyright-offset-toolarge-p) (message "Copyright extends beyond `copyright-limit' and won't be updated automatically.")) comment-end
n)] 4 (#$ . 8787) "*P\nP"])
#@122 Update copyright notice for all files in DIRECTORY matching MATCH.
If FIX is non-nil, run `copyright-fix-years' instead.
(defalias 'copyright-update-directory #[(directory match &optional fix) "\306\307
\310$\310\211\205E@\311\n!\204=\312\313\n\"\210\314\310\315\n!\210*\307\2032\316 \210\2025\317 \210)\320
\210\321p!\210A\211\204
\310*\207" [directory match file --dolist-tail-- enable-local-eval enable-local-variables directory-files t nil filedirectory-p message "Updating file `%s'" :safe find-file copyright-fix-years copyright-update save-buffer kill-buffer
inhibit-read-only fix] 6 (#$ . 9719) "DDirectory: \nMFilenames matching (regexp): "])
(provide 'copyright)

Open Source Used In Cisco VIM 4.2.0 5208


1.598 numactl-libs 2.0.12 9.el8

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Version 2.1, February 1999

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1.599 xorg-x11-server-utils 7.7 27.el8

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1.604 systemd-journal 1.3.3

1.604.1 Available under license :

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1.605 python3-xstatic-objectpath 1.2.1.0

2.el8ost

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1.606 python3-secretstorage 2.3.1 7.el8ost

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1.608 python3-glanceclient 2.17.1

1.20201113232754.1aba8f2.el8ost

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

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

In other cases, permission to use a particular library in non-free 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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in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
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application. Therefore, Subsection 2d requires that any
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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,
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1.625 python3-xstatic-rickshaw 1.5.0.0
15.el8ost
1.625.1 Available under license :

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Metadata-Version: 1.0
Name: XStatic-Rickshaw
Version: 1.5.0.0
Summary: Rickshaw 1.5.0 (XStatic packaging standard)
Home-page: http://code.shutterstock.com/rickshaw/
Author: Radomir Dopieralski
Author-email: openstack@sheep.art.pl
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Description: XStatic-Rickshaw

Rickshaw JavaScript library packaged for setuptools (easy_install) / pip.

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Keywords: rickshaw xstatic
Platform: any

Found in path(s):
* /opt/cola/permits/1162153476_1620794543.83/0/python-XStatic-Rickshaw-1.5.0.0-15.el8ost.src.rpm-cosi-expand-archive-Oh5xSCVL/XStatic-Rickshaw-1.5.0.0.tar.gz-cosi-expand-archive-EAzapaxg/XStatic-Rickshaw-1.5.0.0/PKG-INFO
* /opt/cola/permits/1162153476_1620794543.83/0/python-XStatic-Rickshaw-1.5.0.0-15.el8ost.src.rpm-cosi-expand-archive-Oh5xSCVL/XStatic-Rickshaw-1.5.0.0.tar.gz-cosi-expand-archive-EAzapaxg/XStatic-Rickshaw-1.5.0.0/XStatic_Rickshaw.egg-info/PKG-INFO

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* /opt/cola/permits/1162153476_1620794543.83/0/python-XStatic-Rickshaw-1.5.0.0-15.el8ost.src.rpm-cosi-
expand-archive-Oh5xSCVL/XStatic-Rickshaw-1.5.0.0.tar.gz-cosi-expand-archive-EAzapaxg/XStatic-Rickshaw-1.5.0.0/xstatic/pkg/rickshaw/data/rickshaw.js
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* /opt/cola/permits/1162153476_1620794543.83/0/python-XStatic-Rickshaw-1.5.0.0-15.el8ost.src.rpm-cosi-expand-archive-Oh5xSCVL/python-XStatic-Rickshaw.spec

1.626 gstreamer-plugins-base 1.16.1 1.el8
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.
However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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**1.631 python3-jinja2 2.10.1 2.el8_0**

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1.633 lz4-libs 1.8.1.2 4.el8

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* * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
* @author Paulo Barreto <paulo.barreto@terra.com.br>
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The decompression core code for the deflate method (inflate.[ch],
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--------------------------------------------------------------------------

1.637 python3-xstatic-json2yaml 0.1.1.0
2.el8ost

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Found in path(s):
* /opt/cola/permits/1162148247_1620795391.8/0/python-XStatic-Json2yaml-0.1.1.0-2.el8ost.src.rpm-cosi-expand-
archive-LxNw2P0A/python-XStatic-Json2yaml.spec
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Metadata-Version: 1.2
Name: XStatic-Json2yaml
Version: 0.1.1.0
Summary: Json2yaml 0.1.1 (XStatic packaging standard)
Home-page: https://github.com/jeffsu/json2yaml
Maintainer: xinni.ge
Maintainer-email: xinni.ge@ntt.com
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Description: XStatic-Js2yaml

-------------------
Js2yaml JavaScript library packaged for setuptools (easy_install) / pip.

This package is intended to be used by **any** project that needs these files.

It intentionally does **not** provide any extra code except some metadata
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Keywords: json2yaml xstatic
Platform: any

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2000-01-14

1.641 python-mimeparse 1.6.0

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Gocheck - A rich testing framework for Go

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Protocol Buffers for Go with Gadgets

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=head1 NAME

Digest::MD5 - Perl interface to the MD5 Algorithm

=head1 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);

$digest = $ctx->digest;
$digest = $ctx->hexdigest;
$digest = $ctx->b64digest;

=head1 DESCRIPTION
The C\texttt{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 C\texttt{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.

=head1 FUNCTIONS

The following functions are provided by the C\texttt{Digest::MD5} module. None of these functions are exported by default.

=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 \texttt{md5("a", "b", "c")} will be exactly the same as the result of \texttt{md5("abc")}.

=item md5_hex($data,...)

Same as \texttt{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 \texttt{md5()}, 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 '/'.

Note that 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 redundant
string ":=" to the result.

=head1 METHODS

The object oriented interface to C\<Digest::MD5> is described in this section. After a C\<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 = Digest::MD5->new

The constructor returns a new C\<Digest::MD5> object which encapsulate the state of the MD5 message-digest algorithm.

If called as an instance method (i.e. $md5->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->reset

This is just an alias for $md5->new.

=item $md5->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:

my $md5 = Digest::MD5->new;  
while (<>) {  
$md5->add($_);  
print "Line 
": 
\$md5->clone->hexdigest, \"n\";  
}  

=item $md5->add($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:
$md5->add("a"); $md5->add("b"); $md5->add("c");
$md5->add("a")->add("b")->add("c");
$md5->add("a", "b", "c");
$md5->add("abc");

=item $md5->addfile($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.

=item $md5->add_bits($data, $nb bits)

=item $md5->add_bits($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.

=item $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.

=back

=back

=head1 EXAMPLES

The simplest way to use this library is to import the md5_hex() function (or one of its cousins):

use Digest::MD5 qw(md5_hex);
print "Digest is ", md5_hex("foobarbaz"), "\n";

The above example would print out the message:

Digest is 6df23dc03f9b54cc38a0fc1483df6e21

The same checksum can also be calculated in OO style:

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:

```perl
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:

```perl
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:

```perl
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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=over 4

=item

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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

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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Found in path(s):
* /opt/cola/permits/1162151173_1620793336.08/0/perl-Digest-MD5-2.55-396.el8-1.src.rpm-cosi-expand-archive-e3o3t83b/perl-Digest-MD5.spec

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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'
  XSLoader: '0'
  perl: '5.006'
resources:
  repository: https://github.com/gisle/digest-md5
  version: '2.55'

Found in path(s):
* /opt/cola/permits/1162151173_1620793336.08/0/perl-Digest-MD5-2.55-396.el8-1.src.rpm-cosi-expand-archive-e3o3t83b/Digest-MD5-2.55.tar.gz-cosi-expand-archive-c6dBCMAAa/Digest-MD5-2.55/META.yml

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/*
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 *
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 *
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* turn is derived from the reference implementation in RFC 1321 which
* comes with this message:
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Found in path(s):
* /opt/cola/permits/1162151173_1620793336.08/0/perl-Digest-MD5-2.55-396.el8-1.src.rpm-cosi-expand-archive-
e3o3t83b/Digest-MD5-2.55.tar.gz-cosi-expand-archive-c6dbcmAa/Digest-MD5-2.55/MD5.xs
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Network Working Group R. Rivest
Request for Comments: 1321 MIT Laboratory for Computer Science
and RSA Data Security, Inc.
April 1992

The MD5 Message-Digest Algorithm

Status of this Memo

This memo provides information for the Internet community. It does
not specify an Internet standard. Distribution of this memo is
unlimited.

Acknowledgements

We would like to thank Don Coppersmith, Burt Kaliski, Ralph Merkle,
David Chaum, and Noam Nisan for numerous helpful comments and
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.

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 ^ for
superscripts (exponentiation), so that \( x^{i} \) 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 not(\( X \)) denote the
bit-wise complement of \( X \), and let \( X \lor Y \) denote the bit-wise OR of \( X \)
and \( Y \). Let \( X \xor Y \) denote the bit-wise XOR of \( X \) and \( Y \), and let \( XY \)
denote the bit-wise AND of \( X \) and \( Y \).
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 $M[0 \ldots N-1]$ 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 de 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.

\[
\begin{align*}
F(X,Y,Z) &= XY \lor \neg(X) \land Z \\
G(X,Y,Z) &= XZ \lor Y \lor \neg(Z) \\
H(X,Y,Z) &= X \oplus Y \oplus Z \\
I(X,Y,Z) &= Y \oplus (X \lor \neg(Z))
\end{align*}
\]

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:

\[
\begin{align*}
/* Process each 16-word block. */ \\
\text{For } i &= 0 \text{ to } N/16-1 \text{ do} \\
/* Copy block } i \text{ into } X. */ \\
\text{For } j &= 0 \text{ to } 15 \text{ do}
\end{align*}
\]
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 11 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]
[ABCD 13  4 41] [DABC  0 11 42] [CDAB  3 16 43] [BCDA  6 23 44]
[ABCD  9  4 45] [DABC 12 11 46] [CDAB 15 16 47] [BCDA  2 23 48]

/* Round 4. */
/* Let [abcd k s t] denote the operation */
/* a = b + ((a + I(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 */

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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 \( (X \lor Y \lor X \lor Z) \) to \( (X \lor Z \lor Y \lnot Z) \) 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.

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 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 char *POINTER;

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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.
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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*/

#include "global.h"
#include "md5.h"

/* Constants for MD5Transform routine.
*/
#define S11 7
#define S12 12
#define S13 17
#define S14 22
#define S21 5
#define S22 9
#define S23 14
#define S24 20
#define S31 4
#define S32 11
#define S33 16
#define S34 23
#define S41 6
#define S42 10
#define S43 15
#define S44 21

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, 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)); 
}
#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
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))

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< ((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);

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/* 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, 0x0c1bdceee); /* 4 */
FF (a, b, c, d, x[ 4], S11, 0x657c0faaf); /* 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, 0xb8b4f7af); /* 10 */
FF (c, d, a, b, x[10], S13, 0xffff5bb1); /* 11 */
FF (b, c, d, a, x[11], S14, 0x895cd7be); /* 12 */
FF (a, b, c, d, x[12], S11, 0xb6901122); /* 13 */
FF (d, a, b, c, x[13], S12, 0xd987193); /* 14 */
FF (c, d, a, b, x[14], S13, 0xa679438e); /* 15 */
FF (b, c, d, a, x[15], S14, 0x49b40821); /* 16 */

/* Round 2 */
GG (a, b, c, d, x[ 1], S21, 0xf61e2562); /* 17 */
GG (d, a, b, c, x[ 6], S22, 0xc040b340); /* 18 */
GG (c, d, a, b, x[11], S23, 0x265e5a51); /* 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, 0x2441453); /* 22 */
GG (c, d, a, b, x[15], S23, 0xda8a1e681); /* 23 */
GG (b, c, d, a, x[ 4], S24, 0xe7d3fbc8); /* 24 */
GG (a, b, c, d, x[ 9], S21, 0x21e1cde6); /* 25 */
GG (d, a, b, c, x[14], S22, 0xc33707d6); /* 26 */
GG (c, d, a, b, x[ 3], S23, 0xf4d50d87); /* 27 */

/* Round 3 */
HH (a, b, c, d, x[ 5], S31, 0xfffa3942); /* 28 */
HH (d, a, b, c, x[13], S21, 0xa9e3e905); /* 29 */
HH (c, d, a, b, x[ 2], S22, 0xfceed8f); /* 30 */
HH (b, c, d, a, x[ 7], S23, 0x6760d9f); /* 31 */
HH (a, b, c, d, x[12], S24, 0x8d2a4c8a); /* 32 */

/* Round 3 */
HH (a, b, c, d, x[ 5], S31, 0xaff3942); /* 33 */
HH (d, a, b, c, x[13], S21, 0x8771f681); /* 34 */
HH (c, d, a, b, x[ 2], S22, 0x6d96122); /* 35 */
/ * Round 4 */  
  
<table>
<thead>
<tr>
<th>Round 4</th>
<th>HH</th>
<th>PI</th>
</tr>
</thead>
<tbody>
<tr>
<td>49</td>
<td>(a, b, c, d, x[ 0], S41, 0xf4292244); /* 49 */</td>
<td>II (a, b, c, d, x[ 0], S41, 0xf4292244); /* 49 */</td>
</tr>
<tr>
<td>50</td>
<td>(d, a, b, c, x[ 7], S42, 0x432aff97); /* 50 */</td>
<td>II (d, a, b, c, x[ 7], S42, 0x432aff97); /* 50 */</td>
</tr>
<tr>
<td>51</td>
<td>(c, d, a, b, x[14], S43, 0xab9423a7); /* 51 */</td>
<td>II (c, d, a, b, x[14], S43, 0xab9423a7); /* 51 */</td>
</tr>
<tr>
<td>52</td>
<td>(b, c, d, a, x[ 5], S44, 0xfc93a039); /* 52 */</td>
<td>II (b, c, d, a, x[ 5], S44, 0xfc93a039); /* 52 */</td>
</tr>
<tr>
<td>53</td>
<td>(a, b, c, d, x[12], S41, 0x655b59c3); /* 53 */</td>
<td>II (a, b, c, d, x[12], S41, 0x655b59c3); /* 53 */</td>
</tr>
<tr>
<td>54</td>
<td>(d, a, b, c, x[ 3], S42, 0x8f0ccc92); /* 54 */</td>
<td>II (d, a, b, c, x[ 3], S42, 0x8f0ccc92); /* 54 */</td>
</tr>
<tr>
<td>55</td>
<td>(c, d, a, b, x[10], S43, 0xffeff47d); /* 55 */</td>
<td>II (c, d, a, b, x[10], S43, 0xffeff47d); /* 55 */</td>
</tr>
<tr>
<td>56</td>
<td>(b, c, d, a, x[ 1], S44, 0x85845dd1); /* 56 */</td>
<td>II (b, c, d, a, x[ 1], S44, 0x85845dd1); /* 56 */</td>
</tr>
<tr>
<td>57</td>
<td>(a, b, c, d, x[ 8], S41, 0x6fa87e4f); /* 57 */</td>
<td>II (a, b, c, d, x[ 8], S41, 0x6fa87e4f); /* 57 */</td>
</tr>
<tr>
<td>58</td>
<td>(d, a, b, c, x[15], S42, 0xfe2ce6e0); /* 58 */</td>
<td>II (d, a, b, c, x[15], S42, 0xfe2ce6e0); /* 58 */</td>
</tr>
<tr>
<td>59</td>
<td>(c, d, a, b, x[ 6], S43, 0x3014314); /* 59 */</td>
<td>II (c, d, a, b, x[ 6], S43, 0x3014314); /* 59 */</td>
</tr>
<tr>
<td>60</td>
<td>(b, c, d, a, x[13], S44, 0x980e81a1); /* 60 */</td>
<td>II (b, c, d, a, x[13], S44, 0x980e81a1); /* 60 */</td>
</tr>
<tr>
<td>61</td>
<td>(a, b, c, d, x[ 4], S41, 0xf7537e82); /* 61 */</td>
<td>II (a, b, c, d, x[ 4], S41, 0xf7537e82); /* 61 */</td>
</tr>
<tr>
<td>62</td>
<td>(d, a, b, c, x[11], S42, 0xdb3af235); /* 62 */</td>
<td>II (d, a, b, c, x[11], S42, 0xdb3af235); /* 62 */</td>
</tr>
<tr>
<td>63</td>
<td>(c, d, a, b, x[ 2], S43, 0x2ad7d2bb); /* 63 */</td>
<td>II (c, d, a, b, x[ 2], S43, 0x2ad7d2bb); /* 63 */</td>
</tr>
<tr>
<td>64</td>
<td>(b, c, d, a, x[ 9], S44, 0xe8b86d391); /* 64 */</td>
<td>II (b, c, d, a, x[ 9], S44, 0xe8b86d391); /* 64 */</td>
</tr>
</tbody>
</table>

state[0] += a;  
state[1] += b;  
state[2] += c;  
state[3] += d;  

/* Zeroize sensitive information. */

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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++)
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
#if MD == 5
#define MD_CTX MD5_CTX
#define MDInit MD5Init
#define MDUpdate MD5Update
#endif

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/* Main driver. 

Arguments (may be any combination):
- -sstring - digests string
- -t - runs time trial
- -x - runs test script
filename - digests file
(none) - digests standard input
*/

int main (argc, argv)
int argc;
{
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)
    MDTimeTrial ();
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;

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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);

/* 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 ("\nTime = %ld seconds\n", (long)(endTime-startTime));
printf ("Speed = %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 ("12345678901234567890123456789012345678901234567890\12345678901234567890123456789012345678901234567890");
}

/* Digests a file and prints the result. */

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static void MDFile (filename)
char *filename;
{
    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];
{

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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") = 0ce175b9c0f1b6a831c399e269772661
MD5 ("abc") = 900150983cd24fb0d6963f7d28e17f72
MD5 ("message digest") = f96b697d7cb7938d525a2f31aaf161d0
MD5 ("abcdefghijklmnopqrstuvwxyz") = c3fcd3d76192e4007d6f496ca67e13b
MD5 ("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789") =
d174ab98d277d9f5a5611c2c9f419d9f
MD5 ("12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890") = 57edf4a22be3c955ac49da2e2107b67a

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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1.654 python3-cliff 2.16.0
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1.658 python 4.14.2 37.el8

1.658.1 Available under license:

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1.659 coredns 1.3.1

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1.665 python3-alembic 1.0.7 1.el8ost

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1.666 python3-keyring 17.1.1 1.el8ost
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1.669 python-dateutil 2.7.3
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--------------------------------------------------------------------------------

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1.670 web-assets-filesystem 5 7.el8ost

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1.671 multi-json 1.13.1

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1.672 tftp-server 5.2 24.el8

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 *
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 * http://www.openbsd.org/.
 *
 * ............................................................... */

Found in path(s):
* /opt/cola/permits/1162152109_1620791207.0/0/tftp-5.2-24.el8-1.src.rpm-cosi-expand-archive-FjNzNX6T/tftp-hpa-5.2.tar.bz2-cosi-expand-archive-Uh5PbMtD/tftp-hpa-5.2/config.h

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

%global systemctl_bin /usr/bin/systemctl
%global _hardened_build 1

Summary: The client for the Trivial File Transfer Protocol (TFTP)
Name: tftp
Version: 5.2
Release: 24%{?dist}
License: BSD
Group: Applications/Internet
URL: http://www.kernel.org/pub/software/network/tftp/
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa/tftp-hpa-%{version}.tar.bz2
Source1: tftp.socket
Source2: tftp.service

Patch0: tftp-0.40-remap.patch
Patch2: tftp-hpa-0.39-tzfix.patch
Patch3: tftp-0.42-tftpboot.patch
Patch4: tftp-0.49-chk_retcodes.patch
Patch5: tftp-hpa-0.49-fortify-strcpy-crash.patch
Patch6: tftp-0.49-cmd_arg.patch
Patch7: tftp-hpa-0.49-stats.patch
Patch8: tftp-hpa-5.2-pktinfo.patch
Patch9: tftp-doc.patch
Patch10: tftp-enhanced-logging.patch
The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP)
Requires: systemd-units
Requires(post): systemd-units
Requires(postun): systemd-units

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run by using systemd socket activation, and is disabled by default.

%prep
%setup -q -n tftp-hpa-%{version}
%patch0 -p1 -b .zero
%patch2 -p1 -b .tzfix
%patch3 -p1 -b .tftpboot
%patch4 -p1 -b .chk_retcodes
%patch5 -p1 -b .fortify-strepy-crash
%patch6 -p1 -b .cmd_arg
%patch7 -p1 -b .stats
%patch8 -p1 -b .pktinfo
%patch9 -p1 -b .doc
%patch10 -p1 -b .logging

%build
autoreconf
%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}
mkdir -p ${RPM_BUILD_ROOT}%{_localstatedir}/lib/tftpboot
mkdir -p ${RPM_BUILD_ROOT}%{_unitdir}

make INSTALLROOT=${RPM_BUILD_ROOT} SBINDIR=%{_sbindir} MANDIR=%{_mandir} INSTALL='install -p' install

install -p -m 644 %SOURCE1 ${RPM_BUILD_ROOT}%{_unitdir}
install -p -m 644 %SOURCE2 ${RPM_BUILD_ROOT}%{_unitdir}

%post server
%systemd_post tftp.socket

%preun server
%systemd_preun tftp.socket

%postun server
%systemd_postun_with_restart tftp.socket

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%doc README README.security CHANGES
%{_bindir}/tftp
%{_mandir}/man1/*

%files server
%doc README README.security CHANGES
%dir %{_localstatedir}/lib/tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*
%{_unitdir}/*

%changelog
* Fri Feb 09 2018 Igor Gnatenko <ignatenkobrain@fedoraproject.org> - 5.2-24
  - Escape macros in %changelog

* Mon Dec 4 2017 Jan Synek <jsynacek@redhat.com> - 5.2-23
  - remove build dependency on tcp_wrappers (#1518793)

* Thu Aug 03 2017 Fedora Release Engineering <releng@fedoraproject.org> - 5.2-22
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_27_Binutils_Mass_Rebuild

* Thu Jul 27 2017 Fedora Release Engineering <releng@fedoraproject.org> - 5.2-21
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_27_Mass_Rebuild

* Sat Feb 11 2017 Fedora Release Engineering <releng@fedoraproject.org> - 5.2-20
- Rebuilt for https://fedoraproject.org/wiki/Fedora_26_Mass_Rebuild

* Thu Jan 12 2017 Igor Gnatenko <ignatenko@redhat.com> - 5.2-19
  - Rebuild for readline 7.x

* Thu Mar 3 2016 Jan Synek <jsynacek@redhat.com> - 5.2-18
  - enhance in.tftpd logging capabilities

* Fri Feb 05 2016 Fedora Release Engineering <releng@fedoraproject.org> - 5.2-17
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_24_Mass_Rebuild

* Fri Jun 19 2015 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 5.2-16
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_23_Mass_Rebuild

* Mon Aug 18 2014 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 5.2-15
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_21_22_Mass_Rebuild

* Sun Jun 08 2014 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 5.2-14
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_21_Mass_Rebuild

* Mon Feb 24 2014 Jan Synek <jsynacek@redhat.com> - 5.2-13
  - add documentation reference to the service file

* Wed Feb 19 2014 Jan Synek <jsynacek@redhat.com> - 5.2-12
  - start socket as well when starting the service

* Thu Feb 13 2014 Jan Synek <jsynacek@redhat.com> - 5.2-11
  - don’t depend on xinetd anymore (#1059641)

* Sun Aug 04 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 5.2-10
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_20_Mass_Rebuild

* Tue Apr 23 2013 Jan Synek <jsynacek@redhat.com> - 5.2-9
  - harden the package (#955197)

* Fri Apr 19 2013 Jan Synek <jsynacek@redhat.com> - 5.2-8
  - documentation fixes

* Fri Feb 15 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 5.2-7
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_19_Mass_Rebuild

* Wed Aug 22 2012 Jan Synek <jsynacek@redhat.com> - 5.2-6
  - add systemd-rpm macros
  - Resolves: #850338

* Sat Jul 21 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 5.2-5
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild
* Thu Jul 19 2012 Jan Synek <jsynacek@redhat.com> - 5.2.4
  - make fedora-review-friendly

* Wed Jul 18 2012 Jan Synek <jsynacek@redhat.com> - 5.2-4
  - update spec: fix Source0

* Wed May 30 2012 Jan Synek <jsynacek@redhat.com> - 5.2-4
  - use systemd instead of xinetd as a default

* Tue May 22 2012 Jan Synek <jsynacek@redhat.com> - 5.2-3
  - provide native systemd service files
  - Resolves: #737212

* Wed Jan 04 2012 Jiri Skala <jskala@redhat.com> - 5.2-2
  - fixes #739534 - TFTP to an IP alias of FC15 tftp server failed

* Wed Dec 14 2011 Jiri Skala <jskala@redhat.com> - 5.2-1
  - updated to latest upstream - 5.2

* Thu Oct 06 2011 Jiri Skala <jskala@redhat.com> - 5.1-1
  - updated to latest upstream - 5.1

* Mon Jun 20 2011 Jiri Skala <jskala@redhat.com> - 0.49-9
  - fixes #714261 - CVE-2011-2199: buffer overflow when setting utimeout option

* Wed Feb 09 2011 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.49-8
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_15_Mass_Rebuild

* Mon Jan 03 2011 Jiri Skala <jskala@redhat.com> - 0.49-7
  - fixes #666746 - Packaging mistake: confusing %%doc files patched+unpatched
  - fixes printing statistics using -v option

* Fri May 28 2010 Jiri Skala <jskala@redhat.com> - 0.49-6
  - patched handling arguments of commands (put)

* Wed Aug 05 2009 Warren Togami <wtogami@redhat.com> - 0.49-5
  - Bug #515361 tftp FORTIFY_SOURCE strcpy crash

* Sun Jul 26 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.49-4
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_12_Mass_Rebuild

* Wed Feb 25 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.49-3
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_11_Mass_Rebuild

* Thu Jan 15 2009 Jiri Skala <jskala@redhat.com> - 0.49-2
  - #473487 - unchecked return values

* Tue Nov 25 2008 Tom "spot" Callaway <tcallawa@redhat.com> - 0.49-1
- update to 0.49

* Wed May 21 2008 Warren Togami <wtogami@redhat.com> - 0.48-6
  - undo symlink stuff completely because they are problematic
  See Bug #447135 for details.

* Wed May 21 2008 Martin Nagy <mnagy@redhat.com> - 0.48-5
  - fix troubles caused by added symlink

* Tue May 20 2008 Martin Nagy <mnagy@redhat.com> - 0.48-4
  - add symlink to /var/lib/tftpboot

* Mon Mar 03 2008 Martin Nagy <mnagy@redhat.com> - 0.48-3
  - changed description (#234099)

* Mon Feb 11 2008 Martin Nagy <mnagy@redhat.com> - 0.48-2
  - rebuild for gcc-4.3

* Tue Jan 22 2008 Martin Nagy <mnagy@redhat.com> - 0.48-1
  - upgrade to 0.48
  - remove the old sigjmp patch (fixed in upstream)
  - make some changes in spec file (#226489)

* Tue Jan 22 2008 Martin Nagy <mnagy@redhat.com> - 0.42-6
  - changed the location of tftpboot directory to /var/lib/

* Fri Aug 31 2007 Maros Barabas <mbarabas@redhat.com> - 0.42-5
  - rebuild

* Mon Feb 19 2007 Maros Barabas <mbarabas@redhat.com> - 0.42-4
  - make some changes in spec file (review)
  - Resolves #226489

* Mon Dec 04 2006 Maros Barabas <mbarabas@redhat.com> - 0.42-3.2
  - change BuildRequires from tcp_wrappers to tcp_wrappers-devel

* Wed Jul 12 2006 Jesse Keating <jkeating@redhat.com> - 0.42-3.1
  - rebuild

* Mon Apr 10 2006 Radek Vokl <rvokal@redhat.com> 0.42-3
  - show localtime instead of GMT (#172274)

* Wed Mar 22 2006 Radek Vokl <rvokal@redhat.com> 0.42-2
  - fix double free error when hitting ^C (#186201)

* Wed Feb 22 2006 Radek Vokl <rvokal@redhat.com> 0.42-1
  - upgrade to 0.42
* Fri Feb 10 2006 Jesse Keating <jkeating@redhat.com> - 0.41-1.2.1
  - bump again for double-long bug on ppc(64)

* Tue Feb 07 2006 Jesse Keating <jkeating@redhat.com> - 0.41-1.2
  - rebuilt for new gcc4.1 snapshot and glibc changes

* Fri Dec 09 2005 Jesse Keating <jkeating@redhat.com>
  - rebuilt

* Thu Nov 03 2005 Radek Vokal <rvokal@redhat.com> 0.41-1
  - upstream update (patterns fixes)

* Tue Apr 19 2005 Radek Vokal <rvokal@redhat.com> 0.40-6
  - fix remap rules convert error <pjones@redhat.com>

* Wed Mar 23 2005 Radek Vokal <rvokal@redhat.com> 0.40-5
  - use tftp-xinetd from tarball (#143589)

* Fri Mar 04 2005 Radek Vokal <rvokal@redhat.com> 0.40-4
  - gcc4 rebuilt

* Sun Feb 27 2005 Florian La Roche <laroche@redhat.com>
  - Copyright: -> License

* Wed Jan 12 2005 Tim Waugh <twaugh@redhat.com> 0.40-2
  - Rebuilt for new readline.

* Mon Nov 15 2004 Radek Vokal <rvokal@redhat.com> 0.40-1
  - Update to new upstream version, fixes #139328

* Mon Sep 13 2004 Elliot Lee <sopwith@redhat.com> 0.39-1
  - Update to new version makes tftp work, says upstream.
  - Remove malta patch

* Mon Sep 13 2004 Elliot Lee <sopwith@redhat.com> 0.38-1
  - Update to new version fixes #131736

* Tue Jun 15 2004 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Thu Jun 03 2004 Elliot Lee <sopwith@redhat.com> 0.36-1
  - Update version

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt
* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
  - 0.33
  - Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
  - add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
  - rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
  - Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
  - Fix #55789
  - Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
  - Try applying HJ's patch from #65476

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
  - Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
  - Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
  - Update to tftp-hpa-0.28 (bug #56131)
  - Remove include/arpa/tftp.h to fix #57259
  - Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
  - Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
  - updated tftp-hpa source to tftp-hpa-0.17
  - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
- use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
  - rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
  - fix tftp client's put problems (#29529)
  - update to tftp-hpa-0.16

* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
  - don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
  - fixed hpa-tftpd to handle files greater than 32MB (#23725)
  - added "-l" flag to hpa-tftpd for file-logging (#26467)
  - added description for "-l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - updated tftp client to 0.17 stable (#19640),
  - drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
  - xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan  6 2001 Jeff Johnson <jbj@redhat.com>
  - fix to permit tftp put's (#18128).
  - startup as root with chroot to /tftpboot with early reversion to nobody
    is preferable to starting as nobody w/o ability to chroot.
  - %post is needed by server, not client. Add %postun for erasure as well.

* Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
  - default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
  - correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
  - change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
  - update to tftp-hpa-0.14 (#14003).
  - add server_args (#14003).
  - remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
  - cook up an xinetd config file for tftp
* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
  - automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
  - FHS packaging.
  - update to 0.17.

* Fri May 5 2000 Matt Wilson <msw@redhat.com>
  - use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
  - fix description

* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
  - compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
  - man pages are compressed
  - fix description and summary

* Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>
  - split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
  - tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
  - auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
  - compile for 6.0.

* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
  - build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
  - translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
  - added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
- initial build

Found in path(s):
* /opt/cola/permits/1162152109_1620791207.0/0/tftp-5.2-24.el8-1.src.rpm-cosi-expand-archive-FjNzNX6T/tftp.spec

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*                                                                 *
*   ------------------------------------------------------------------- */

Found in path(s):
* /opt/cola/permits/1162152109_1620791207.0/0/tftp-5.2-24.el8-1.src.rpm-cosi-expand-archive-FjNzNX6T/tftp-hpa-5.2.tar.bz2-cosi-expand-archive-Uh5PbMtD/tftp-hpa-5.2/tftpd/recvfrom.h
* /opt/cola/permits/1162152109_1620791207.0/0/tftp-5.2-24.el8-1.src.rpm-cosi-expand-archive-FjNzNX6T/tftp-hpa-5.2.tar.bz2-cosi-expand-archive-Uh5PbMtD/tftp-hpa-5.2/tftpd/recvfrom.c

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*                                                                 *
*   ------------------------------------------------------------------- */

Found in path(s):
* /opt/cola/permits/1162152109_1620791207.0/0/tftp-5.2-24.el8-1.src.rpm-cosi-expand-archive-FjNzNX6T/tftp-hpa-5.2.tar.bz2-cosi-expand-archive-Uh5PbMtD/tftp-hpa-5.2/tftpd/misc.c
* /opt/cola/permits/1162152109_1620791207.0/0/tftp-5.2-24.el8-1.src.rpm-cosi-expand-archive-FjNzNX6T/tftp-hpa-5.2.tar.bz2-cosi-expand-archive-Uh5PbMtD/tftp-hpa-5.2/tftpd/remap.h
* /opt/cola/permits/1162152109_1620791207.0/0/tftp-5.2-24.el8-1.src.rpm-cosi-expand-archive-FjNzNX6T/tftp-hpa-5.2.tar.bz2-cosi-expand-archive-Uh5PbMtD/tftp-hpa-5.2/tftpd/remap.c

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

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OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: 5.2
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

%description
The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user
interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

description server
The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build

%configure
make %{?_smp_mflags}

%install
rm -rf %{_install_root}
mkdir -p %{_install_root}/bin
mkdir -p %{_install_root}/etc
mkdir -p %{_install_root}/usr
make INSTALL_ROOT=%{_install_root} \
    SBINDIR=%{_bindir} MANDIR=%{_mandir} \ 
install
install -m755 -d %{_install_root}/etc/xinetd.d 
    tftpboot
install -m644 tftp-xinetd %{_install_root}/etc/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
    /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf %{_install_root}

---

Open Source Used In Cisco VIM 4.2.0 5907
%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
  - removed completely broken "Malta" patch.
  - integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
  - 0.33
  - Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
  - add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
  - rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
  - Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
  - Fix #55789
  - Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
  - Try applying HJ's patch from #65476

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
  - automated rebuild
* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
  - Update to 0.29

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  - Update to tftp-hpa-0.28 (bug #56131)
  - Remove include/arpa/tftp.h to fix #57259
  - Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
  - Bump release + rebuild.

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  - updated tftp-hpa source to tftp-hpa-0.17
  - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
  - use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
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  - fix tftp client's put problems (#29529)
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* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
  - don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
  - fixed hpa-tftpd to handle files greater than 32MB (#23725)
  - added "$I" flag to hpa-tftpd for file-logging (#26467)
  - added description for "$I" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - updated tftp client to 0.17 stable (#19640),
  - drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
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- startup as root with chroot to /tftpboot with early reversion to nobody is preferable to starting as nobody w/o ability to chroot.
- %%post is needed by server, not client. Add %%postun for erasure as well.

* Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
  - default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
  - correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
  - change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
  - update to tftp-hpa-0.14 (#14003).
  - add server_args (#14003).
  - remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
  - cook up an xinetd config file for tftpd

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  - automatic rebuild

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  - FHS packaging.
  - update to 0.17.

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* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
  - fix description

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  - compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
  - man pages are compressed
  - fix description and summary

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  - split client and server

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  - update to 0.16.
* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
  - tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
  - auto rebuild in the new build environment (release 22)

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  - compile for 6.0.

* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
  - build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
  - translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
  - added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
  - initial build

Found in path(s):
* /opt/cola/permits/1162152109_1620791207.0/0/tftp-5.2-24.el8-1.src.rpm-cosi-expand-archive-FjNzNX6T/tftp-hpa-5.2.tar.bz2-cosi-expand-archive-Uh5PbMtD/tftp-hpa-5.2/tftp.spec
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* /opt/cola/permits/1162152109_1620791207.0/0/tftp-5.2-24.el8-1.src.rpm-cosi-expand-archive-FjNzNX6T/tftp-hpa-5.2.tar.bz2-cosi-expand-archive-Uh5PbMtD/tftp-hpa-5.2/tftp/main.c
* /opt/cola/permits/1162152109_1620791207.0/0/tftp-5.2-24.el8-1.src.rpm-cosi-expand-archive-FjNzNX6T/tftp-hpa-5.2.tar.bz2-cosi-expand-archive-Uh5PbMtD/tftp-hpa-5.2/common/tftpsubs.c

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* /opt/cola/permits/1162152109_1620791207.0/0/tftp-5.2-24.el8-1.src.rpm-cosi-expand-archive-FjNzNX6T/tftp-hpa-5.2.tar.bz2-cosi-expand-archive-Uh5PbMtD/tftp-hpa-5.2/common/tftpsubs.h

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---------------------------------------------------------------------------------- */

Found in path(s):
* /opt/cola/permits/1162152109_1620791207.0/0/tftp-5.2-24.el8-1.src.rpm-cosi-expand-archive-FjNzNX6T/tftp-hpa-5.2.tar.bz2-cosi-expand-archive-Uh5PbMtD/tftp-hpa-5.2/tftp/tftp.1.in
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1162152109_1620791207.0/0/tftp-5.2-24.el8-1.src.rpm-cosi-expand-archive-FjNzNX6T/tftp-hpa-5.2.tar.bz2-cosi-expand-archive-Uh5PbMtD/tftp-hpa-5.2/tftp/tftp.1.in
No license file was found, but licenses were detected in source scan.

/* -nroff -*.  "---------------------------------------------------------------------------------- */

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*/

Found in path(s):
* /opt/cola/permits/1162152109_1620791207.0/0/tftp-5.2-24.el8-1.src.rpm-cosi-expand-archive-FjNzNX6T/tftp-hpa-5.2.tar.bz2-cosi-expand-archive-Uh5PbMtD/tftp-hpa-5.2/tftpd/tftpd.8.in
No license file was found, but licenses were detected in source scan.

Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: @@VERSION@@
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

%description
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp package provides the user
interface for TFTP, which allows users to transfer files to and from a
remote machine. This program and TFTP provide very little security,
and should not be enabled unless it is expressly needed.

%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp-server package provides the
server for TFTP, which allows users to transfer files to and from a
remote machine. TFTP provides very little security, and should not be
enabled unless it is expressly needed. The TFTP server is run from
/etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.
%prep
%setup -q -n tftp-hpa-%{version}

%build

%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \ 
  SBINDIR=%{_sbindir} MANDIR=%{_mandir} \ 
install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ $RPM_BUILD_ROOT/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
  /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
  - removed completely broken "Malta" patch.
  - integrated into build machinery so rpm -ta works.
* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
  - 0.33
  - Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
  - add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
  - rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
  - Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
  - Fix #55789
  - Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
  - Try applying HJ's patch from #65476

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
  - Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
  - Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
  - Update to tftp-hpa-0.28 (bug #56131)
  - Remove include/arpa/tftp.h to fix #57259
  - Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
- Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
  - updated tftp-hpa source to tftp-hpa-0.17
  - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
  - use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
  - rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
  - fix tftp client's put problems (#29529)
  - update to tftp-hpa-0.16

* Wed Apr  4 2001 Jakub Jelinek <jakub@redhat.com>
  - don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
  - fixed hpa-tftpd to handle files greater than 32MB (#23725)
  - added "-l" flag to hpa-tftpd for file-logging (#26467)
  - added description for "-l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - updated tftp client to 0.17 stable (#19640),
  - drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
  - xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan  6 2001 Jeff Johnson <jbj@redhat.com>
  - fix to permit tftp put's (#18128).
  - startup as root with chroot to /tftpboot with early reversion to nobody
    is preferable to starting as nobody w/o ability to chroot.
  - %%post is needed by server, not client. Add %%postun for erasure as well.

* Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
  - default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
  - correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
  - change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
  - update to tftp-hpa-0.14 (#14003).
  - add server_args (#14003).
- remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
- cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
- automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
- FHS packaging.
- update to 0.17.

* Fri May  5 2000 Matt Wilson <msw@redhat.com>
- use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
- fix description

* Wed Feb  9 2000 Jeff Johnson <jbj@redhat.com>
- compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
- man pages are compressed
- fix description and summary

* Tue Jan  4 2000 Bill Nottingham <notting@redhat.com>
- split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.15.

* Wed Apr  7 1999 Jeff Johnson <jbj@redhat.com>
- tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
- auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
- compile for 6.0.

* Fri Aug  7 1998 Jeff Johnson <jbj@redhat.com>
- build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
- translations modified for de, fr, tr
* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
  - added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
  - initial build

Found in path(s):
* /opt/cola/permits/1162152109_1620791207.0/0/tftp-5.2-24.el8-1.src.rpm-cosi-expand-archive-FjNzNX6T/tftp-hpa-5.2.tar.bz2-cosi-expand-archive-Uh5PbMtD/tftp-hpa-5.2/tftp.spec.in

1.673 python3-lesscpy 0.13.0 9.el8ost
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1.675 python3-paramiko 2.4.2 2.el8ost

1.675.1 Available under license:

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Version 2.1, February 1999

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

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

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

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

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glnrnp at users.sourceforge.net
September 29, 2017
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1.691 selinux-policy 3.14.3 41.el8_2.8

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Metadata-Version: 1.2
Name: XStatic-FileSaver
Version: 1.3.2.0
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------------

FileSaver JavaScript library packaged for setuptools (easy_install) / pip.

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 * A saveAs() FileSaver implementation.
 * 1.3.2
 * 2016-06-16 18:25:19
 * *
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1.694 platform-python-setuptools 39.2.0 5.el8

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1.698 x-sys master fc99dfb

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1.699 libpipeline 1.5.0 2.el8

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1.702 mesa-dri-drivers 19.3.4 2.el8

1.702.1 Available under license:
Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:50 PM
To: Tom Callaway <tcallawa@redhat.com>
CC: "jorge@iryoku.com" <jorge@iryoku.com>

Yes to both questions.

Thanks,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
On 01/08/2013 12:39 PM, Jorge Jimenez wrote:
> Hi Tom,
> 
> What we meant with that is that we made an exception for clause 2.
> Instead of clause 2, in the case of the Mesa project, you have to name
> the technique Jimenez's MLAA in the config options of Mesa. We did that
> just to allow them to solve license issues. This exception should be for
> the Mesa project, and any project using Mesa, like Fedora.
> 
> We want to widespread usage of our MLAA, so we want to avoid any kind of
> license complications. Hope current one is good for Fedora, if not
> please tell, and we'll see what we can do!

Okay, a few more questions:

* If Fedora decides to simply reproduce the quoted statement:
  "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
  Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

Specifically, if this is done as part of documentation included with
Mesa, is that sufficient to meet clause 2 even if the Mesa config option
is not set as described in your exception?

* Currently, the Mesa config option for MLAA says: "Morphological
  anti-aliasing based on Jimenez\' MLAA. 0 to disable, 8 for default
  quality". Is this in compliance with your exception?

Thanks again,

~tom

Fedora Project
the technique Jimenez's MLAA in the config options of Mesa. We did that just to allow them to solve license issues. This exception should be for the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of license complications. Hope current one is good for Fedora, if not please tell, and we'll see what we can do!

Cheers,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:30 PM
To: jorge@iryoku.com
Subject: Question about Mesa MLAA license

Jorge,

Thanks for all of your fantastic graphics work! I have been auditing Fedora (a popular distribution of Linux) for license compliance and I came across your MLAA code in Mesa.

The license says:

* 2. Redistributions in binary form must reproduce the following statement:
*  
* "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
* Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."
*  
* Only for use in the Mesa project, this point 2 is filled by naming the technique Jimenez's MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's MLAA" in the Mesa config options.

*****

If the first item is true, then we may have to remove the MLAA code from Fedora's copy of Mesa. However, looking at the license on your SMAA code, I do not believe it to be the case. Please let me know either way!
Thanks in advance,

Tom Callaway
Fedora Legal

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

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

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

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when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) 19yy name of author
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    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
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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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necessary. Here is a sample; alter the names:

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

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License-History.txt
===================
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Key Dates
---------
* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0 to Version 1.1 to cover open source documentation associated with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a backwards compatible extension that adds support for document files in both source form and compiled form.

References:
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Proposals (RFCs):
https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

TianoCore Bugzilla:
https://bugzilla.tianocore.org/show_bug.cgi?id=629

* April 9, 2019

Replace BSD 2-Clause License with BSD + Patent License removing the need for the TianoCore Contribution Agreement.

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Proposals (RFCs):
https://lists.01.org/pipermail/edk2-devel/2019-February/036260.html

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To make a contribution to a TianoCore project, follow these steps.
1. Create a change description in the format specified below to use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version. For example: Contributed-under: TianoCore Contribution Agreement 1.1
   The "TianoCore Contribution Agreement" is included below in this document.
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Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject line following [Repository/Branch PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "Repository" is the identifier of the repository the patch applies. This identifier should only be provided for repositories other than 'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is the identifier of the branch the patch applies. This identifier should only be provided for branches other than 'edk2/master'. For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or 'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or 'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is
  made under the terms of the contribution agreement. This
  agreement is included below in this document.
* "Signed-off-by" is the contributor's signature identifying them
  by their real/legal name and their email address.

========================================
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= Code Contributions =

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

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1. Create a change description in the format specified below to
use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature,
and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the
contribution is made under the terms of the specified
contribution agreement. Your "Contributed-under" message
must include the name of contribution agreement and version.
For example: Contributed-under: TianoCore Contribution Agreement 1.0
The "TianoCore Contribution Agreement" is included below in
this document.
4. Submit your code to the TianoCore project using the process
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= Change Description / Commit Message / Patch Email =

=================================
Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message ==

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject line following [PATCH]. The remaining portion of the commit message is the email's content until the ‘---’ line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is made under the terms of the contribtion agreement. This agreement is included below in this document.
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1.712 python3-xstatic-angular-vis 4.16.0.0

2.el8ost

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Metadata-Version: 1.2
Name: XStatic-Angular-Vis
Version: 4.16.0.0
Summary: Angular-Vis 4.16.0 (XStatic packaging standard)
Home-page: https://github.com/visjs/angular-visjs
Maintainer: xinni.ge
Maintainer-email: xinni.ge@ntt.com
License: MIT
Description: XStatic-Angular-Vis

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

Angular-Vis JavaScript library packaged for setuptools (easy_install) / pip.

This package is intended to be used by **any** project that needs these files.

It intentionally does **not** provide any extra code except some metadata
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You can find more info about the xstatic packaging way in the package `XStatic`.

Keywords: angular_vis xstatic
Platform: any

Found in path(s):
* /opt/cola/permits/1162152118_1620791372.65/0/python-XStatic-Angular-Vis-4.16.0.0-2.el8ost.src.rpm-cosi-expand-archive-EyEKbnGd/XStatic-Angular-Vis-4.16.0.0.tar.gz-cosi-expand-archive-bLmT5Knc/XStatic-Angular-Vis-4.16.0.0/PKG-INFO
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* /opt/cola/permits/1162152118_1620791372.65/0/python-XStatic-Angular-Vis-4.16.0.0-2.el8ost.src.rpm-cosi-expand-archive-EyEKbnGd/python-XStatic-Angular-Vis.spec

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=head1 NAME

Exporter - Implements default import method for modules

=head1 SYNOPSIS

In module `YourModule.pm`:

```perl
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 C<import> method which allows a module
to export functions and variables to its users' namespaces. Many modules
use Exporter rather than implementing their own C<import> method because
Exporter provides a highly flexible interface, with an implementation optimised
for the common case.

Perl automatically calls the C<import> method when processing a
C<use> statement for a module. Modules and C<use> are documented
in L<perlfunc> and L<perlmod>. Understanding the concept of
modules and how the C<use> statement operates is important to
understanding the Exporter.

=head2 How to Export

The arrays C<@EXPORT> and C<@EXPORT_OK> in a module hold lists of
symbols that are going to be exported into the users name space 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 { ...;   # 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 \texttt{C}@\texttt{EXPORT}@\texttt{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.

Unless you want to use its advanced features, this is probably all you need to know to use Exporter.

\section*{Advanced Features}

\section*{Specialised Import Lists}

If any of the entries in an import list begins with \texttt{!}, \texttt{:} or \texttt{/} 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:

- \texttt{[!]name} \hspace{1cm} This name only
- \texttt{[!]::DEFAULT} \hspace{1cm} All names in \texttt{@EXPORT}
- \texttt{[!]::tag} \hspace{1cm} All names in \texttt{$EXPORT\_TAGS\{tag\}} anonymous list
- \texttt{[!]::pattern/} \hspace{1cm} All names in \texttt{@EXPORT} and \texttt{@EXPORT\_OK} which match

A leading \texttt{!} 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 \texttt{::DEFAULT}. If you just want to import extra names in addition to the default set you will still need to include \texttt{::DEFAULT} explicitly.

e.g., \texttt{F\langle Module.pm \rangle} defines:

\begin{verbatim}
  @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)]);
\end{verbatim}

Note that you cannot use tags in \texttt{@EXPORT} or \texttt{@EXPORT\_OK}.

Names in \texttt{EXPORT\_TAGS} must also appear in \texttt{@EXPORT} or \texttt{@EXPORT\_OK}.

An application using \texttt{Module} can say something like:

\begin{verbatim}
  use Module qw(:DEFAULT :T2 !B3 A3);
\end{verbatim}

Other examples include:

\begin{verbatim}
  use Socket qw(!/^[AP]F_/ !SOMAXCONN !SOL\_SOCKET);
  use POSIX  qw(:errno_h :termios_h !TCSADRAIN !/^EXIT/);
\end{verbatim}
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 C<$where_to_export> is an integer telling how far up the calling stack to export your symbols, and C<@what_to_export> is an array telling what symbols *to* export (usually this is C<@_>). The C<$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 C<$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;
    }
```
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 C<@_> 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 C<@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>:

```perl
%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:

```perl
%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 C<use vars> statement.

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 C<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 C<BEGIN> blocks. So the first part of the L</SYNOPSIS> code could be rewritten as:

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 \texttt{BEGIN} will assure that the loading of \texttt{Exporter.pm} and the assignments to \texttt{@ISA} and \texttt{@EXPORT_OK} happen immediately, leaving no room for something to get awry or just plain wrong.

With respect to loading \texttt{Exporter} and inheriting, there are alternatives with the use of modules like \texttt{base} and \texttt{parent}.

\begin{verbatim}
use base qw(Exporter);
# or
use parent qw(Exporter);
\end{verbatim}

Any of these statements are nice replacements for \texttt{BEGIN \{ require Exporter; @ISA = qw(Exporter); \}} with the same compile-time effect. The basic difference is that \texttt{base} code interacts with declared \texttt{fields} while \texttt{parent} is a streamlined version of the older \texttt{base} code to just establish the IS-A relationship.

For more details, see the documentation and code of \texttt{base} and \texttt{parent}.

Another thorough remedy to that runtime vs. compile-time trap is to use \texttt{Exporter::Easy}, which is a wrapper of Exporter that allows all boilerplate code at a single gulp in the use statement.

\begin{verbatim}
use Exporter::Easy (OK => [ qw(munge frobnicate) ],);
# @ISA setup is automatic
# all assignments happen at compile time
\end{verbatim}

=head2 What Not to Export

You have been warned already in \texttt{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 *

=after 4
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
NAME
   Exporter - Implements default import method for modules

SYNOPSIS
   In module 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 "YourModule":

   use YourModule qw(frobnicate);      # import listed symbols
   frobnicate ($left, $right)          # calls YourModule::frobnicate

   Take a look at "Good Practices" for some variants you will like to use
   in modern Perl code.

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.

   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 name space 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.

```perl
@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.

Selecting What To Export
Do not export method names!

Do 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 @EXPORT_OK in preference to @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 "YourModule::item_name" (or "$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:

```perl
my $subref = sub { ... };
$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 @EXPORT_OK
anything but use @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 perlmod.

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:

"use YourModule;"
This imports all the symbols from YourModule's @EXPORT into the
namespace of the "use" statement.

"use YourModule ();"
This causes perl to load your module but does not import any symbols.

"use YourModule qw(...);"

This imports only the symbols listed by the caller into their namespace. All listed symbols must be in your @EXPORT or @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.

Unless you want to use its advanced features, this is probably all you need to know to use Exporter.

Advanced features

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:

[!]name       This name only
[!]:DEFAULT   All names in @EXPORT
[!]:tag        All names in $EXPORT_TAGS{tag} anonymous list
[!]/pattern/  All names in @EXPORT and @EXPORT_OK which match

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., Module.pm defines:

    @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)]);

    use Module qw(:DEFAULT :T2 !B3 A3);

Other examples include:

    use Socket qw(!/^[AP]F_/ !SOMAXCONN !SOL_SOCKET);
    use POSIX  qw(erno_h :termios_h !TCSADRAIN !/^EXIT/);
Remember that most patterns (using //) will need to be anchored with a leading ^, e.g., "/^EXIT/" rather than "/EXIT/".

You can say "BEGIN { $Exporter::Verbose=1 }" to see how the specifications are being processed and what is actually being imported into modules.

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:

    MyPackage->export_to_level($where_to_export, $package, @what_to_export);

where $where_to_export is an integer telling how far up the calling stack to export your symbols, and @what_to_export is an array telling what symbols *to* export (usually this is @_). The $package argument is currently unused.

For example, suppose that you have a module, A, which already has an import function:

    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 $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:

    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 @_ at all before you call export_to_level
- or people using your package will get very unexplained results!

Exporting without inheriting from Exporter
By including Exporter in your @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

    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 @YourModule::ISA.

Note: This feature was introduced in version 5.57 of Exporter, released with perl 5.8.3.

Module Version Checking
The Exporter module will convert an attempt to import a number from a module into a call to "$module_name->require_version($value)". This can be used to validate that the version of the module being used is greater than or equal to the required version.

The Exporter module supplies a default "require_version" method which checks the value of $VERSION in the exporting module.

Since the default "require_version" method treats the $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.

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 @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:
@failed_symbols = $module_name->export_fail(@failed_symbols);

If the "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 "export_fail" method which
simply returns the list unchanged.

Uses for the "export_fail" method include giving better error messages
for some symbols and performing lazy architectural checks (put more
symbols into @EXPORT_FAIL by default and then take them out if someone
actually tries to use them and an expensive check shows that they are
useable on that platform).

Tag Handling Utility Functions
Since the symbols listed within %EXPORT_TAGS must also appear in either
@EXPORT or @EXPORT_OK, two utility functions are provided which allow
you to easily add tagged sets of symbols to @EXPORT or @EXPORT_OK:

%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 @EXPORT or @EXPORT_OK
unchanged but will trigger a warning (with "-w") to avoid misspelt tags
names being silently added to @EXPORT or @EXPORT_OK. Future versions may
make this a fatal error.

Generating combined tags
If several symbol categories exist in %EXPORT_TAGS, it's usually useful
to create the utility ":all" to simplify "use" statements.

The simplest way to do this is:

%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;
}

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 %EXPORT_TAGS don't have the leading ":".

"AUTOLOAD"ed Constants
Many modules make use of "AUTOLOAD"ing for constant subroutines to avoid having to compile and waste memory on rarely used values (see 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 "AUTOLOAD"ed yet). perl needs to examine both the "()" 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 "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 "AUTOLOAD" for "SO_LINGER" to take place before SO_LINGER is encountered later in "My" package.

If you are writing a package that "AUTOLOAD"s, consider forcing an "AUTOLOAD" for any constants explicitly imported by other packages or which are usually used when your package is "use"d.

Good Practices 
Declaring @EXPORT_OK and Friends
When using "Exporter" with the standard "strict" and "warnings" pragmas, the "our" keyword is needed to declare the package variables @EXPORT_OK, @EXPORT, @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.

use vars qw(@ISA @EXPORT_OK);
@ISA = qw(Exporter);
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Playing Safe
There are some caveats with the use of runtime statements like "require Exporter" and the assignment to package variables, which can 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 "SYNOPSIS" code could be rewritten as:

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".

use base qw( Exporter );
# or
use parent qw( Exporter );

Any of these statements are nice replacements for "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 "base" code to just establish the IS-A relationship.

For more details, see the documentation and code of base and parent.

Another thorough remedy to that runtime vs. compile-time trap is to use 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

What not to Export
You have been warned already in "Selecting What To Export" to not export:

*   method names (because you don't need to and that's likely to not do what you want),

*   anything by default (because you don't want to surprise your users... badly)

*   anything you don't need to (because less is more)

There's one more item to add to this list. Do not export variable names. Just because "Exporter" lets you do that, it does not mean you should.

@EXPORT_OK = qw( $svar @avar %hvar ); # DONT!

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.

SEE ALSO
"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. Peek the one that fits your needs. The following is a sample list of such modules.

Exporter::Easy
Exporter::Lite
Exporter::Renaming
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Found in path(s):
* /opt/cola/permits/1162151821_1620790895.03/0/perl-Exporter-5.72-396.el8-1.src.rpm-cosi-expand-archive-D0DTaLvO/Exporter-5.70.tar.gz-cosi-expand-archive-PGxg0D60/Exporter-5.70/README
No license file was found, but licenses were detected in source scan.

---
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/
  repository: http://perl5.git.perl.org/perl.git/tree/HEAD:/lib
  x_MailingList: http://lists.perl.org/list/perl5-porters.html
  version: 5.70

Found in path(s):
* /opt/cola/permits/1162151821_1620790895.03/0/perl-Exporter-5.72-396.el8-1.src.rpm-cosi-expand-archive-D0DTaLvO/Exporter-5.70.tar.gz-cosi-expand-archive-PGxg0D60/Exporter-5.70/META.yml
1.714 six 1.12.0

1.714.1 Available under license:

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1.715 python3-cheetah 3.2.3 2.el8

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1.716 python-setuptools 39.0.1

11.module+el8.1.0+3446+c3d52da3

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1.717 python3-cursive 0.2.2

1.20201113120340.d7cea1f.el8ost

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1.720 python3-rcssmin 1.0.6 4.el8ost

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`cssmin.py` - A Python port of the YUI CSS compressor.

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1.721 pyasn1-modules 0.2.4
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1.722 python3-crypto 2.6.1 18.el8ost
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Last updated: 2009-02-28

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=== EOF ===

1.723 diffutils 3.5-3.debian

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1.726 tar 1.29b-1.1.debian

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1.727 python3-voluptuous 0.10.5 5.el8ost

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1.728 libarchive 3.3.2 8.el8_1

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1.729 perl 5.24.1.orig
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the
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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at assemblers) written by James Hacker.

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

That's all there is to it!
#!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 TestInit;
use strict;
use Config;
BEGIN { require 'test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now') {
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else {
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";
# The copyright message is the first paragraph:
local $/ = ";
my $copyright_msg = <$readme>;

my ($year) = $copyright_msg =~ /.*\b\d\(\d{4}\)/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\(\d{4}\)/i
    or die "Copyright statement not found in perl -v output '$output';

  $year;
}

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1.745 python3-versiontools 1.9.1 9.el8ost

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Protocol Buffers for Go with Gadgets

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

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goproperties - properties file decoder 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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tomb - support for clean goroutine termination in Go.

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  -r--r--r--   1 0 0 [LSN 27]     17992 Mar 05 2005 15:25:51  COPYING
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From network_io/unix/inet_ntop.c, network_io/unix/inet_ntop.c:

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From dso/aix/dso.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_snprintf.c:

*  *
* cvt - IEEE floating point formatting routines.    *
*       Derived from UNIX V7, Copyright(C) Caldera International Inc.  *
*  *

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1.763 libiscsi 1.18.0
8.module+el8.2.0+4793+b09dd2fb
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src/ld_iscsi.c

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

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Version 2.1, February 1999

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abstract: 'Expand tabs and do simple line wrapping'
author:
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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 operating system on which the executable runs, unless that component itself accompanies the executable.

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

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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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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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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
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Otherwise, if the work is a derivative of the Library, you may
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* [2013-04-27] Optimize AVX and FMA4 TRSM on AMD Bulldozer
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* [2013-06-11] Optimize AVX and FMA4 ZGEMM on AMD Bulldozer
* [2013-06-12] Optimize AVX and FMA4 CGEMM on AMD Bulldozer
* [2013-06-16] Optimize dgemv_n kernel on AMD Bulldozer
* [2013-06-20] Optimize ddot, daxpy kernel on AMD Bulldozer
* [2013-06-21] Optimize dcopy kernel on AMD Bulldozer
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* Optimization on AMD Piledriver
* Optimization on Intel Haswell

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  * Improve the windows build.

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* Alexander Eberspcher <https://github.com/aeberspaecher>
  * [2012-05-02] Add note on patch for segfaults on Linux kernel 2.6.32.

* Mike Nolta <mike@nolta.net>
  * [2012-05-19] Fix building bug on FreeBSD and NetBSD.

* Sylvestre Ledru <https://github.com/sylvestre>
  * [2012-07-01] Improve the detection of sparc. Fix building bug under Hurd and kfreebsd.

* Jameson Nash <https://github.com/vtjnash>
  * [2012-08-20] Provide support for passing CFLAGS, FFLAGS, PFLAGS, FPFLAGS to make on the command line.
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  * [2013-08-28] Avoid failure on qemu guests declaring an Athlon CPU without 3dnow!

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  * [2013-07-22] Add in return value for `interface/trtri.c`

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  * [2013-07-24] Modify makefile to respect user's LDFLAGS
  * [2013-07-24] Add stack markings for GNU as arch-independent for assembler files

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  * [2013-08-21] Patch LAPACK XLASD4.f as discussed in JuliaLang/julia#2340

* Lars Buitinck <https://github.com/larsmans>
  * [2013-08-28] get rid of the generated cblas_noconst.h file
  * [2013-08-28] Missing threshold in gemm.c
  * [2013-08-28] fix default prefix handling in makefiles

* yieldthought <https://github.com/yieldthought>
  * [2013-10-08] Remove -Wl,--retain-symbols-file from dynamic link line to fix tool support

* Keno Fischer <https://github.com/loladiro>
  * [2013-10-23] Use FC instead of CC to link the dynamic library on OS X

* Christopher Meng <cickumqt@gmail.com>
  * [2013-12-09] Add DESTDIR support for easier building on RPM based distros.
    Use install command instead of cp to install files with permissions control.
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  * [2013-12-10] Added support for NO_SHARED in make install.

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  * [2014-08-03] Fixed link error on Linux/musl

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    ARMv8 support.

* Jerome Robert <jeromerobert@gmx.com>
  * [2015-01-01] Speed-up small `ger` and `gemv` using stack allocation (bug #478)
  * [2015-12-23] `stack_check` in `gemv.c` (bug #722)
  * [2015-12-28] Allow to force the number of parallel make job
  * [2015-12-28] Fix detection of AMD E2-3200 detection
  * [2015-12-31] Let `make MAX_STACK_ALLOC=0` do what expected
  * [2016-01-19] Disable multi-threading in `ger` and `swap` for small matrices (bug #731)
  * [2016-01-24] Use `GEMM_MULTITHREAD_THRESHOLD` as a number of ops (bug #742)
  * [2016-01-26] Let `openblas_get_num_threads` return the number of active threads (bug #760)
  * [2016-01-30] Speed-up small `zger`, `zgemv`, `ztrmv` using stack allocation (bug #727)

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  * [2015-01-07] Added test for drotmg bug #484.

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  * [2015-11-09] Assembly kernels for Cortex-A57 (ARMv8)
  * [2015-11-20] lapack-test fixes for Cortex-A57
  * [2016-03-14] Additional functional Assembly Kernels for Cortex-A57
  * [2016-03-14] Optimize Dgemm 4x4 for Cortex-A57

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  * [2016-03-22] Fix access violation on Windows while static linking

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* [2016-05-09] DTRSM optimization for MIPS P5600 and I6400 using MSA

* [2016-05-20] STRSM optimization for MIPS P5600 and I6400 using MSA

* Abdelrauf <https://github.com/quickwritereader>

* [2017-01-01] dgemm and dtrmm kernels for IBM z13

* [2017-02-26] ztmm kernel for IBM z13

* [2017-03-13] strmm and ctrmm kernel for IBM z13

* [2017-09-01] initial Blas Level-1,2 (double precision) for IBM z13

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI) in the Netherlands as a successor of a
language called ABC. Guido is Python's principal author, although it
includes many contributions from others. The last version released
from CWI was Python 1.2. In 1995, Guido continued his work on Python
at the Corporation for National Research Initiatives (CNRI) in Reston,
Virginia where he released several versions of the software. Python
1.6 was the last of the versions released by CNRI. In 2000, Guido and
the Python core development team moved to BeOpen.com to form the
BeOpen PythonLabs team. Python 2.0 was the first and only release
from BeOpen.com.

Following the release of Python 1.6, and after Guido van Rossum left
CNRI to work with commercial software developers, it became clear that
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1.799 python3-pyudev 0.21.0 7.el8

1.799.1 Available under license :

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

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

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1.801 e2fsprogs 1.45.4 3.el8

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

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# In order to use this stub, the following makefile variables must be defined.

# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)

all:: image

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

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

image:$(BSD_LIB)

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

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

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

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

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

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

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This package was put together by Yann Dirson <dirson@debian.org>,
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Gadi Oxman, August 1995

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1.816 python3-jsonschema 2.6.0 4.el8

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1.817 python3-anyjson 0.3.3 8.1.el8ost

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1.828 python3-paste 2.0.3 6.el8ost
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1.837 python3-eventlet 0.25.1 1.1.el8ost

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1.838 adwaita-cursor-theme 3.28.0 2.el8

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1.839 bitmath 1.3.1.2

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1.842 perl-digest 1.17 395.el8

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=head1 NAME

Digest - Modules that calculate message digests
SYNOPSIS

```perl
$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);
```

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 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 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 $ctx = Digest-&gt;XXX($arg,...)

=item $ctx = Digest-&gt;new(XXX =&gt; $arg,...)

=item $ctx = Digest::XXX-&gt;new($arg,...)

=over 4

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-&gt;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:

$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.

=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.

=item $ctx->add_bits( $data, $nbits )
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 $nbits % 8 >> bits are used. If $nbits is greater than $length($data) * 8 >>, then this method would do the same as $ctx->add($data) >>.

The one argument form of add_bits() takes a $bitstring of "1" and "0" chars as argument. It's a shorthand for $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:

```
$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.

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.

Same as $ctx->digest, but will return the digest in hexadecimal form.

Same as $ctx->digest, but will return the digest as a base64 encoded string.
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>SHA-384</td>
<td>384</td>
<td>Digest::SHA v4.3.1</td>
<td>19.2</td>
</tr>
<tr>
<td>SHA-512</td>
<td>512</td>
<td>Digest::SHA v4.3.1</td>
<td>19.2</td>
</tr>
<tr>
<td>Whirlpool</td>
<td>512</td>
<td>Digest::Whirlpool v1.0.2</td>
<td>13.0</td>
</tr>
<tr>
<td>MD2</td>
<td>128</td>
<td>Digest::MD2 v2.03</td>
<td>9.5</td>
</tr>
<tr>
<td>Adler-32</td>
<td>32</td>
<td>Digest::Adler32 v0.03</td>
<td>1.3</td>
</tr>
<tr>
<td>CRC-16</td>
<td>16</td>
<td>Digest::CRC v0.05</td>
<td>1.1</td>
</tr>
<tr>
<td>CRC-32</td>
<td>32</td>
<td>Digest::CRC v0.05</td>
<td>1.1</td>
</tr>
<tr>
<td>MD5</td>
<td>128</td>
<td>Digest::Perl::MD5 v1.5</td>
<td>1.0</td>
</tr>
<tr>
<td>CRC-CCTT</td>
<td>16</td>
<td>Digest::CRC v0.05</td>
<td>0.8</td>
</tr>
</tbody>
</table>

These numbers was 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.

SEE ALSO

Digest::Adler32, Digest::CRC, Digest::Haval256, Digest::HMAC, Digest::MD2, Digest::MD4, Digest::MD5, Digest::SHA, Digest::SHA1, Digest::SHA2, Digest::Whirlpool

New digest implementations should consider subclassing from Digest::base.

MIME::Base64

http://en.wikipedia.org/wiki/Cryptographic_hash_function

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.

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

Copyright 1998-2006 Gisle Aas.

=cut

Found in path(s):
* /opt/cola/permits/1162148087_1620794183.88/0/perl-Digest-1.17-395.el8-1.src.rpm-cosi-expand-archive-drseQHxM/Digest-1.17.tar.gz-cosi-expand-archive-jubeOhnw/Digest-1.17/Digest.pm
No license file was found, but licenses were detected in source scan.

This is just a simple frontend module for autoloading of various Digest:: modules. It also provide documentation of the interface that all Digest:: modules should provide.

You will need perl version 5.004 or better to install this module.

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Found in path(s):
* /opt/cola/permits/1162148087_1620794183.88/0/perl-Digest-1.17-395.el8-1.src.rpm-cosi-expand-archive-drseQHxM/Digest-1.17.tar.gz-cosi-expand-archive-jubeOhnw/Digest-1.17/README
No license file was found, but licenses were detected in source scan.

license: perl

Found in path(s):
* /opt/cola/permits/1162148087_1620794183.88/0/perl-Digest-1.17-395.el8-1.src.rpm-cosi-expand-archive-drseQHxM/Digest-1.17.tar.gz-cosi-expand-archive-jubeOhnw/Digest-1.17/META.yml
No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1162148087_1620794183.88/0/perl-Digest-1.17-395.el8-1.src.rpm-cosi-expand-archive-drseQHxM/perl-Digest.spec
1.843 python3-xstatic-angular-Lrdragndrop
1.0.2.2 12.el8ost

1.843.1 Available under license:

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

Metadata-Version: 1.0
Name: XStatic-Angular-Lrdragndrop
Version: 1.0.2.2
Summary: Angular-Lrdragndrop 1.0.2 (XStatic packaging standard)
Home-page: https://github.com/lorenzofox3/LrDragNDrop
Author: Thai Tran
Author-email: tqtran@us.ibm.com
License: (same as Angular-Lrdragndrop)
Description:

XStatic-Angular-Lrdragndrop

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

lrDragNDrop javascript library packaged for setuptools (easy_install) / pip.

This package is intended to be used by **any** project that needs these files.

It intentionally does **not** provide any extra code except some metadata
**nor** has any extra requirements. You MAY use some minimal support code from
the XStatic base package, if you like.

You can find more info about the xstatic packaging way in the package
`XStatic`.

Keywords: drag-n-drop angular table lrdragndrop xstatic
Platform: any

Found in path(s):
* /opt/cola/permits/1162154556_1620791076.84/0/python-XStatic-Angular-Lrdragndrop-1.0.2.2-12.el8ost.src.rpm-
cosi-expand-archive-d7RsXPsm/XStatic-Angular-Lrdragndrop-1.0.2.2.tar.gz-cosi-expand-archive-I1O5eUxr/XStatic-Angular-Lrdragndrop-1.0.2.2/XStatic_Angular_Lrdragndrop.egg-info/PKG-INFO
* /opt/cola/permits/1162154556_1620791076.84/0/python-XStatic-Angular-Lrdragndrop-1.0.2.2-12.el8ost.src.rpm-
cosi-expand-archive-d7RsXPsm/XStatic-Angular-Lrdragndrop-1.0.2.2.tar.gz-cosi-expand-archive-I1O5eUxr/XStatic-Angular-Lrdragndrop-1.0.2.2/PGK-INFO

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

License: MIT

Found in path(s):
* /opt/cola/permits/1162154556_1620791076.84/0/python-XStatic-Angular-Lrdragndrop-1.0.2.2-12.el8ost.src.rpm-
1.844 perl-pathtools 3.74 1.el8

1.844.1 Available under license:

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

=back

=head1 AUTHORS

See the authors list in `File::Spec`. Mac OS support by Paul Schinder
<schinder@pobox.com> and Thomas Wegner <wegner_thomas@yahoo.com>.

=head1 COPYRIGHT

Copyright (c) 2004 by the Perl 5 Porters. All rights reserved.

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it under the same terms as Perl itself.

=head1 SEE ALSO

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

=cut

Found in path(s):
* /opt/cola/permits/1162147328_1620792426.27/0/perl-PathTools-3.74-1.el8-1.src.rpm-cosi-expand-archive-fzfHjJZf/PathTools-3.74.tar.gz-cosi-expand-archive-oxY9K7vW/PathTools-3.74/lib/File/Spec/Mac.pm

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

/* See
* for the details of why the BSD license is compatible with the
* AL/GPL standard perl license.
*/
/*
* Copyright (c) 2003 Constantin S. Svitsoff <kostik@iclub.nsu.ru>
* *
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer.
*/
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* 3. The names of the authors may not be used to endorse or promote
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* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.

*/

Found in path(s):
* /opt/cola/permits/1162147328_1620792426.27/0/perl-PathTools-3.74-1.el8-1.src.rpm-cosi-expand-archive-
fzfHjJZf/PathTools-3.74.tar.gz-cosi-expand-archive-oxY9K7vW/PathTools-3.74/Cwd.xs
No license file was found, but licenses were detected in source scan.

=head1 COPYRIGHT

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

An explanation of VMS file specs can be found at

=cut

Found in path(s):
* /opt/cola/permits/1162147328_1620792426.27/0/perl-PathTools-3.74-1.el8-1.src.rpm-cosi-expand-archive-
fzfHjJZf/PathTools-3.74.tar.gz-cosi-expand-archive-oxY9K7vW/PathTools-3.74/lib/File/Spec/VMS.pm
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 \texttt{F<ppport.h>} if you intend to be backward compatible only down to a certain Perl version.

\texttt{=head2 --cplusplus}

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

\texttt{=head2 --quiet}

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

\texttt{=head2 --nodiag}

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

\texttt{=head2 --nohints}

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

\texttt{=head2 --nochanges}

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

\texttt{=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.

\texttt{=head2 --strip}

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

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

\texttt{=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>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>SvRX()</td>
<td>NEED_SvRX</td>
<td>NEED_SvRX_GLOBAL</td>
</tr>
<tr>
<td>caller_cx()</td>
<td>NEED_caller_cx</td>
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<td>croak_xs_usage()</td>
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<td>NEED_mg_findext_GLOBAL</td>
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<td>my_strlcpy()</td>
<td>NEED_my_strlcpy</td>
<td>NEED_my_strlcpy_GLOBAL</td>
</tr>
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<td>newCONSTSUB()</td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUB_GLOBAL</td>
</tr>
<tr>
<td>newRV_noinc()</td>
<td>NEED_newRV_noinc</td>
<td>NEED_newRV_noinc_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 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:

=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.

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 $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+\|([^|]*)\|([^|]*)\|([^|]*)$/?
    ($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|p|5.004050
AvFILL
BhkDISABLE||5.024000
BhkENABLE||5.024000
BhkENTRY_set||5.024000
BhkENTRY
BhkFLAGS
CALL_BLOCK_HOOKS
CLASS||
C_DEFAULT_SCOPE|5.005000
CX_CURPAD_SAVE
CX_CURPAD_SAVE
C_ARRAY_END|5.013002
C_ARRAY_LENGTH|5.008001
CopFILEAV|5.006000
CopFILEAV
CopFILEGV_set|5.006000
CopFILEGV
CopFILEGV|5.006000
CopFILEGV
CopFILE_set|5.006000
CopFILE
CopFILE
CopSTASHPV_set|5.006000
CopSTASHPV
CopSTASHPV
CopSTASHPV
Open Source Used In Cisco VIM 4.2.0  7311

CopSTASH[5.006000]|p
CopyD[5.009002][5.004050]|p
Copy||
CvPADLIST||5.008001|
CvSTASH||
CvWEAKOUTSIDE||
DECLARATION_FOR_LC_NUMERIC_MANIPULATION|5.021010|n
DEFSV_set[5.010001]|p
DEFSV[5.004050]|p
DO_UTF8||5.006000|
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|
GetVars||
GvAV||
GvCV||
GvHV||
GvSV||
Gv_AMupdate|5.011000|
HEF_SVKEY|5.003070||p
HeHASH||5.003070|
HeKEY|5.003070|
HeKLEN||5.003070|
HePV|5.004000|
HeSVKEY_force|5.003070|
HeSVKEY_set|5.004000|
HeSVKEY|5.003070|
HeUTF8|5.010001||5.008000||p
HeVAL||5.003070|
HvENAMELEN||5.015004|
HvENAMEUTF8|5.015004|
HvNAME||5.013007|
HvNAMELEN_get|5.009003||p
HvNAMELEN|5.015004|
PERL_SIGNALS_UNSAFE_FLAG|5.008001||p
PERL_SUBVERSION|5.006000||p
PERL_SYS_INIT3|5.006000
PERL_SYS_INIT||
PERL_SYS_TERM|5.024000
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_RESULT|5.021001||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|5.024000||p
PL bufptr|5.024000||p
PL check||5.006000|
PL compiliing|5.004050||p
PL comppad_name|5.017004|
PL comppad|5.008001|
PL copline|5.024000||p
PL curcop|5.004050||p
PL curpad|5.005000|
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 errv|5.004050||p
PL_error_count|5.024000||p
PL expect|5.024000||p
PL hexdigit|5.005000||p
PL hints|5.005000||p
PL in_my_stash|5.024000||p
SVt_INVLIST[5.019002]
SVt_IV[]
SVt_NULL[]
SVt_NV[]
SVt_PVAV[]
SVt_PVCV[]
SVt_PVFM[]
SVt_PVGV[]
SVt_PVHV[]
SVt_PVIO[]
SVt_PVIV[]
SVt_PVLV[]
SVt_PVMG[]
SVt_PVNV[]
SVt_PV[]
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[]
XST_mYES
XS_APIVERSION_BOOTCHECK|5.024000|
XS_EXTERNAL|5.024000|
XS_INTERNAL|5.024000|
XS_VERSION_BOOTCHECK|5.024000|
XS_VERSION||
XSprePUSH|5.006000||p
XS||
XopDISABLE|5.024000|
XopENABLE|5.024000|
XopENTRYCUSTOM|5.024000|
XopENTRY_set|5.024000|
XopENTRY|5.024000|
XopFLAGS|5.013007|
ZeroD|5.009002||p
Zero||
_aMY_CXT|5.007003||p
_add_range_to_invlist||
_append_range_to_invlist||
core_swash_init||
_get_encoding||
_get_regclass_nonbitmap_data||
_get_swash_invlist||
_invlistEQ||
_invlist_array_init||n
_invlist_contains_cp||n
_invlist_dump||
_invlist_intersection_maybe_complement_2nd||
_invlist_intersection||
_invlist_invert||
_invlist_len||n
_invlist_populate_swatch||n
_invlist_search||n
_invlist_subtract||
_invlist_union_maybe_complement_2nd||
_invlist_union||
_is_cur_LC_category_utf8||
_is_in_locale_category|5.021001|
_is_uni_FOO|5.017008|
_is_uni_perl_idcont|5.017008|
_is_uni_perl_idstart|5.017007|
_is_utf8_FOO|5.017008|
_is_utf8_char_slow|5.021001||n
_is_utf8_idcont|5.021001|
_is_utf8_idstart|5.021001|
_is_utf8_mark|5.017008|
_is_utf8_perl_idcont|5.017008|
_is_utf8_perl_idstart|5.017007|
cophh_copy[5.013007]
cophh_delete_pv[5.013007]
cophh_delete_pvs[5.013007]
cophh_delete_pv[5.013007]
cophh_delete_sv[5.013007]
cophh_fetch_pv[5.013007]
cophh_fetch_pvs[5.013007]
cophh_fetch_pv[5.013007]
cophh_fetch_sv[5.013007]
cophh_free[5.013007]
cophh_new_empty[5.024000]
cophh_store_pv[5.013007]
cophh_store_pvs[5.013007]
cophh_store_pv[5.013007]
cophh_store_sv[5.013007]
core_prototype||
coresub_op||
create_eval_scope||
croak_memory_wrap[5.019003][pn]
croak_no_mem||n
croak_no_modify[5.013003][pn]
croak_nocontext||[pvn]
croak_popstack||n
croak_sv[5.013001][p]
croak_xs_usage[5.010001][pn]
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_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|||
cx_popblock[5.023008]
cx_popeval[5.023008]
cx_popformat[5.023008]
cx_popgiven[5.023008]
cx_popleft[5.023008]
cx_popsub_args[5.023008]
cx_popsub_common[5.023008]
cx_popsub[5.023008]
cx_popwhen[5.023008]
cx_pushblock[5.023008]
cx_pusheval[5.023008]
cx_pushformat[5.023008]
cx_pushgiven[5.023008]
cx_pushloop_for[5.023008]
cx_pushloop_plain[5.023008]
cx_pushsub[5.023008]
cx_pushwhen[5.023008]
cx_topblock[5.023008]
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[5.024000]|p
dTHXa[5.006000]|p
dTHXoa[5.006000]|p
dTHX[5.006000]|p
dUNDERBAR[5.009002]|p
dVAR[5.009003]|p
dxXPT[5.009002]|p
dxSARGS|||
dxSI32|||
dxSTRG[5.006000]|p
deb_curcv|||
deb_nocontext|||vn
deb_stack_all|||
deb_stack_n|||
debop|5.005000|
debprofdump|5.005000|
debprof|||
debstackptrs|5.007003|
debstack|5.007003|
deb_start_match|||
deb|5.007003|v
defelem_target|||
del_sv|||
delete_eval_scope|||
delimcpy|5.004000|n
deprcate_commaless_var_list|||
despatch_signals|5.007001|
destroy_matcher|||
die_nocontext|||vn
die_sv|5.013001|p
die_unwind|||
die|||v
dirp_dup|||
div128|||
djSP|||
do_aexec5|||
do_aexec|||
do_aspawn|||
do_binmode|5.004050|
do_chomp|||
do_close|||
do_delete_local|||
do_dump_pad|||
do_eof|||
do_exec3|||
do_execfree|||
do_exec|||
do_gv_dump|5.006000|
do_gvgv_dump|5.006000|
do_hv_dump|5.006000|
do_ipcctl|||
do_ipcget|||
do_join|||
do_magic_dump|5.006000|
do_msgrcv|||
do_msgsnd|||
doncmp|||
do_oddball|||
do_op_dump|5.006000|
do_open6|||
do_open9|5.006000|
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do_open[5.003070]
do_pmop_dump[5.006000]
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

doeval_compile

dofile

dofindlabel

doform

doing_taint[5.008001]
doopen_pm

doparseform

dopoptoeval

dopoptogivenfor

dopoptolabel

dopoptoloop

dopoptosub_at

dopoptowhen

doref[5.009003]
dounwind

dowantarray

drand48_init_r

drand48_r

dtrace_probe_call

dtrace_probe_load
dtrace_probe_op

dtrace_probe_phase

dump_all_perl

dump_all[5.006000]
dump_c_backtrace

dump_eval[5.006000]
dump_exec_pos

dump_form[5.006000]
dump_indent[5.006000]
dump_mstats

dump_packsubs_perl

dump_packsubs[5.006000]
dump_sub_perl

dump_sub[5.006000]
dump_sv_child

dump_trie_interim_list

dump_trie_interim_table

dump_trie

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dumpv

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eval_sv[5.006000]
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fbm_instr[5.005000]
feature_is_enabled

filter_add

filter_del

filter_gets

filter_read

finalize_optree

finalize_op

find_and_forget_pmops

find_array_subscript

find_beginning

find_byclass

find_default_stash

find_hash_subscript

find_in_my_stash

find_lexical_cv

find_runcv_where

find_runcv[5.008001]
find_rundefsvoffset[5.009002]
find_rundefsv[5.013002]
get_num
get_op_descs[5.005000]
get_op_names[5.005000]
get_opargs||
get_paddr[5.006000]
get_re_arg||
get_sv[5.006000][p
get_vtbl[5.005030]
getcwd_sv[5.007002]
getenv_len||
glob_2number||
glob_assign_glob||
gp_dup||
gp_free||
gp_ref||
grok_atoUV||n
grok_bin[5.007003][p
grok_bslash_N||
grok_bslash_c||
grok_bslash_o||
grok_bslash_x||
grok_hex[5.007003][p
grok_infnan[5.021004]
grok_number_flags[5.021002]
grok_number[5.007002][p
grok_numeric_radix[5.007002][p
grok_oct[5.007003][p
group_end||
gv_AVadd||
gv_HVadd||
gv_IOadd||
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gv_add_by_type[5.011000]
gv_autoload4[5.004000]
gv_autoload_pvn[5.015004]
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gv_check||
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gv_fetchmeth_autoload[5.007003]
gv_fetchmeth_internal||
gv_fetchmeth_pv_autoload[5.015004]
gv_fetchmeth_pvn_autoload|5.015004|
gv_fetchmeth_pvn|5.015004|
gv_fetchmeth_pv|5.015004|
gv_fetchmeth_sv_autoload|5.015004|
gv_fetchmeth_sv|5.015004|
gv_fetchmethod_autoload|5.004000|
gv_fetchmethod_pv_flags|5.015004|
gv_fetchmethod_pvn_flags|5.015004|
gv_fetchmethod_sv_flags|5.015004|
gv_fetchmethod|||
gv_fetchmeth|||
gv_fetchpvn_flags|5.009002||p
gv_fetchpvs|5.009004||p
gv_fetchpv|||
gv_fetchsv|||
gv_fullname3|5.003070|
gv_fullname4|5.006001|
gv_fullname|||
gv_handler|5.007001|
gv_init_pvn|||
gv_init_pv|5.015004|
gv_init_svtype|||
gv_init_sv|5.015004|
gv_init|||
gv_is_in_main|||
gv_magicalize_isa|||
gv_magicalize|||
gv_name_set|5.009004|
gv_override|||
gv_setref|||
gv_stashpvn_internal|||
gv_stashpvn|5.003070||p
gv_stashpvs|5.009003||p
gv_stashpv|||
gv_stashsvpvn_cached|||
gv_stashsv|||
gv_try_downgrade|||
handle_named_backref|||
handle_possible_posix|||
handle_regex_sets|||
he_dup|||
hek_dup|||
hfree_next_entry|||
hsplit|||
hv_assert|||
hv_auxinit_internal|||
hv_auxinit|||
hv_backreferences_p|||
hv_clear_placeholders
hv_clear
hv_common_key_len
hv_common
hv_copy_hints_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_entries
hv_free_ent
hv_iterinit
hv_iterkeys
hv_iterkeysv
hv_iternext_flags
hv_iternextsv
hv_iternext
hv_interval
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_store
hv_undef_flags
hv_undef
ix]
jmp\n
join_exact]\n
keyword_plugin_standard]\n
\n
leave_adjust_stacks][5.023008]
leave_scope]\n
lex_bufutf8][5.011002]
lex_discard_to][5.011002]
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if (exists $opt{'list-unsupported'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};
        print "$f", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "un";
    }
    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 (/^}/) {
if (exists $API{$function->[0]}) {
my @n = find_api($function->[1]);
push @{$depends{$function->[0]}}, @n if @n

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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*\$#s*\$\s+(\w+)/\(\w+\)\$/\w*\(\w\)/\$\)?\s+(\w+)/\$rcce\s+\$rcce\s*\$};
$replace{$1} = $2 if m{^s*\$rcce\$s*Replace \(\w+\) with \(\w+\) \$rcce\s*\$});

if (m{^s*$rcce$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\(NEED_(\w+)(?!GLOBAL)\)/$1};

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 $info = 0;
        if (SAPI{$f} {base} || SAPI{$f} {todo}) {
            my $base = format_version(SAPI{$f} {base} || SAPI{$f} {todo});
            print "Supported at least starting from perl-$base:\n";
            $info++;
        }
        if (SAPI{$f} {provided}) {
            my $todo = SAPI{$f} {todo} ? format_version(SAPI{$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 "unShints{$f}" if exists Shints{$f};
print "unWARNING:un$warnings{$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'}.";
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 Shints{$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 "$_ is not a file.\n" }
    } else { warn "$_ 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;

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$c =~ s{
  ( ^\$HS*\#\$HS*include\b[^\r\n]+\b(?:\:QSppport\E\b[XSUB\b\b[^\r\n]*
| ^\$HS*\#\$HS*(?:define|elif|if(?:\:def?)\b[^\r\n]*)
| ( ^\$HS*\#[^\r\n]*
| "[^\"\\]*(?:\\\.[^\"\\]*)*"
| '[^'\\]*(?:\\\.[^'\\]*)*' 
| / (?: \*[^\*]*\*+(?:[^$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} = $c =~ /^\$HS*\#\$HS*include[^\r\n]+\bQ$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/ )
    
    if (exists $API{$func}{provided})
      
      if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'})
        
        while ($c =~ /^\$HS*\#\$HS*define\$HS+(NEED_(\w+?)(_GLOBAL)?)\b/m) {
```
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}) {
my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}
{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
if ($changes) {

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warning("Doesn't pass interpreter argument aTHX to Perl_$func");
$file{changes} += $changes;
}
}
}
else {
warning("Uses Perl_$func instead of $func");
$file{changes} += ($c =~ s{\bPerl_$func\(s*\)((s*aTHX_?)?s*)
    \$func\1\(\)g);
}
}

for $func (sort keys %{$file{uses_replace}}) {
    warning("Uses $func instead of $replace{$func}");
    $file{changes} += ($c =~ s/$\b$func\(s*\))/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'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+/\b.*$LF//mg)) {
    $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)
|| ($c =~ s/^(/$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 $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$s)" : '';
info("Analysis completed$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: $!");
}
}
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 $@ eq " }
sub mydiff
{
    local *F = shift;
    my($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 !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'\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' => '*' );
$usage =~ s/\S+/perl\$s+\S+/$/mg;
$usage =~ s/\S+/perl\$s+\S+/$/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;
    $copy =~ s/^(?=$HS+)/    /gms;
    $self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
    $self =~ s/^SKIP.*(?=^__DATA__)/SKIP
    if (@ARGV && $ARGV[0] eq '--unstrip') {
        eval { require Devel::PPPort }
        if ($@) 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($0);
        exit 0;
    }
    print <<END;
    Sorry, but this is a stripped version of \$0.
    To be able to use its original script and doc functionality,
    please try to regenerate this file using:
    \$^X \$0 --unstrip
    END
    /ms;
    my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
    $c =~ s{
        / (?: \*[^*]*\*+(?:[^$ccs]\[^*]*\*+)* / | \[^
\]*) |
        ( "[^\"]*\("[^\"]*\)\" |
        [^\"]*\([\^\"]*[\^\"]*\)\" ) |
        ($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\n";
    exit 0;
}
Found in path(s):
* /opt/cola/permits/1162147328_1620792426.27/0/perl-PathTools-3.74-1.el8-1.src.rpm-cosi-expand-archive-
fzfHjJZI/PathTools-3.74.tar.gz-cosi-expand-archive-oxY9K7vW/PathTools-3.74/ppport.h
No license file was found, but licenses were detected in source scan.

=head1 AUTHOR

o.flebbe@gmx.de

=head1 COPYRIGHT

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it under the same terms as Perl itself.

=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/cola/permits/1162147328_1620792426.27/0/perl-PathTools-3.74-1.el8-1.src.rpm-cosi-expand-archive-
fzfHjJZI/PathTools-3.74.tar.gz-cosi-expand-archive-oxY9K7vW/PathTools-3.74/lib/File/Spec/Epoc.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...
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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cut

Found in path(s):
* /opt/cola/permits/1162147328_1620792426.27/0/perl-PathTools-3.74-1.el8-1.src.rpm-cosi-expand-archive-fzfHjJZf/PathTools-3.74.tar.gz-cosi-expand-archive-oxY9K7vW/PathTools-3.74/lib/File/Spec/OS2.pm
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back

Note For File::Spec::Win32 Maintainers

Novell NetWare inherits its File::Spec behaviour from File::Spec::Win32.

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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/cola/permits/1162147328_1620792426.27/0/perl-PathTools-3.74-1.el8-1.src.rpm-cosi-expand-archive-fzHjJZf/PathTools-3.74.tar.gz-cosi-expand-archive-oxY9K7vW/PathTools-3.74/lib/File/Spec/Win32.pm
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
File::Spec::Win32
File::Spec::VMS

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.

$cpath = File::Spec->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 updir
X<updir>

Returns a string representation of the parent directory.

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

=item no_upwards

Given a list of files in a directory (such as from C<readdir()>), strip out C<.> and C<..>.

B<SECURITY NOTE:> This does NOT filter paths containing C<.>, like
C<.../.../etc/passwd>, only literal matches to C<.> and C<..>.

@paths = File::Spec->no_upwards( readdir $dirhandle );

=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.

$is_case_tolerant = File::Spec->case_tolerant();

=item file_name_is_absolute

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

$is_absolute = File::Spec->file_name_is_absolute( $path );

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 L<File::Spec::VMS/file_name_is_absolute>).

=item path
X<path>

Takes no argument. Returns the environment variable C<PATH> (or the local platform's equivalent) as a list.

@PATH = File::Spec->path();

=item join
X<join, path>

join is the same as catfile.

=item splitpath
X<splitpath> X<split, path>

Splits a path in to 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.

=back
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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Andreas KE<ouml>nig C<< A.Koenig@franz.ww.TU-Berlin.DE>>,
Tim Bunce C<< <Tim.Bunce@ig.co.uk>>.

VMS support by Charles Bailey C<< <bailey@newman.upenn.edu>>.
OS/2 support by Ilya Zakharevich C<< <ilya@math.ohio-state.edu>>.

Mac support by Paul Schinder C<< <schinder@pobox.com>>, and
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.

=head1 COPYRIGHT
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=cut

Found in path(s):
* /opt/cola/permits/1162147328_1620792426.27/0/perl-PathTools-3.74-1.el8-1.src.rpm-cosi-expand-archive-fzfHjJZf/PathTools-3.74.tar.gz-cosi-expand-archive-oX9K7vW/PathTools-3.74/lib/File/Spec.pm

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

=head1 NAME
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.

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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/cola/permits/1162147328_1620792426.27/0/perl-PathTools-3.74-1.el8-1.src.rpm-cosi-expand-archive-
fzfHjJZf/PathTools-3.74.tar.gz-cosi-expand-archive-oxy9K7vW/PathTools-3.74/lib/File/Spec/Functions.pm
No license file was found, but licenses were detected in source scan.

---

abstract: 'Tools for working with directory and file names'
author:
  - 'Perl 5 Porters'
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: 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'

Found in path(s):
* /opt/cola/permits/1162147328_1620792426.27/0/perl-PathTools-3.74-1.el8-1.src.rpm-cosi-expand-archive-
fzfHjJZf/PathTools-3.74.tar.gz-cosi-expand-archive-oxy9K7vW/PathTools-3.74/META.yml
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Please submit bug reports and patches to perlbug@perl.org.

NAME

Cwd - get pathname of current working directory
SYNOPSIS

use Cwd;
my $dir = getcwd;

use Cwd 'abs_path';
my $abs_path = abs_path($file);

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 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.

getcwd and friends

Each of these functions are called without arguments and return the absolute path of the current working directory.

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.

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).

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.

=back

=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.

=over 4

=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.
my $abs_path = realpath($file);

A synonym for 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

=over 4

=item *

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.

=item *

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()>.

=back

=head1 AUTHOR

Originally by the perl5-porters.
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SEE ALSO

L<File::chdir>

cut

Found in path(s):
* /opt/cola/permits/1162147328_1620792426.27/0/perl-PathTools-3.74-1.el8-1.src.rpm-cosi-expand-archive-fzfHjJZf/PathTools-3.74.tar.gz-cosi-expand-archive-oxY9K7vW/PathTools-3.74/Cwd.pm

1.845 python3-simplegeneric 0.8 8.el8ost
1.845.1 Available under license:
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License: Python or ZPLv2.1
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Found in path(s):
* /opt/cola/permits/1162148589_1620793107.64/0/python-simplegeneric-0.8-8.el8ost.src.rpm-cosi-expand-archive-mrz2w1di/python-simplegeneric.spec
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.0
Name: simplegeneric
Version: 0.8
Summary: Simple generic functions (similar to Python's own len(), pickle.dump(), etc.)
Home-page: http://cheeseshop.python.org/pypi/simplegeneric
Author: Phillip J. Eby
Author-email: peak@eby-sarna.com
License: ZPL 2.1
Description: * New in 0.8: Source and tests are compatible with Python 3 (w/o ```setup.py```)

Open Source Used In Cisco VIM 4.2.0 7392
* New in 0.7: 'Multiple Types or Objects'
* New in 0.6: 'Inspection and Extension', and thread-safe method registration

The `simplegeneric` module lets you define simple single-dispatch
generic functions, akin to Python's built-in generic functions like
`len()`, `iter()` and so on. However, instead of using
specially-named methods, these generic functions use simple lookup
tables, akin to those used by e.g. `pickle.dump()` and other
generic functions found in the Python standard library.

As you can see from the above examples, generic functions are actually
quite common in Python already, but there is no standard way to create
simple ones. This library attempts to fill that gap, as generic
functions are an `excellent alternative to the Visitor pattern`, as
well as being a great substitute for most common uses of adaptation.

This library tries to be the simplest possible implementation of generic
functions, and it therefore eschews the use of multiple or predicate
dispatch, as well as avoiding speedup techniques such as C dispatching
or code generation. But it has absolutely no dependencies, other than
Python 2.4, and the implementation is just a single Python module of
less than 100 lines.

Usage
-----

Defining and using a generic function is straightforward:

```python
class move:
    @generic
    def __init__(self, item, target):
        self.item = item
        self.target = target

    def __call__(self)
        print("%s,%s"%(self.item, self.target))

>>> from simplegeneric import generic
>>> move = generic
>>> @move.when_type(int)
... def move_int(item, target):
...     print("In AD %d, %s was beginning." % (item, target))

>>> @move.when_type(str)
... def move_str(item, target):
...     print("How are you %s!!" % item)
...     print("All your %s are belong to us." % (target,))

>>> zig = object()
>>> @move.when_object(zig)
... def move_zig(item, target):
...     print("You know what you %s." % (target,))
```

Open Source Used In Cisco VIM 4.2.0 7393
... print("For great justice!")

>>> move(2101, "war")
In AD 2101, war was beginning.

>>> move("gentlemen", "base")
How are you gentlemen!!
All your base are belong to us.

>>> move(zig, "doing")
You know what you doing.
For great justice!

>>> move(27.0, 56.2)
what you say?!

Inheritance and Allowed Types
----------------------------

Defining multiple methods for the same type or object is an error::

>>> @move.when_type(str)
... def this_is_wrong(item, target):
...     pass
Traceback (most recent call last):
...
TypeError: <function move...> already has method for type <...'str'>

>>> @move.when_object(zig)
... def this_is_wrong(item, target): pass
Traceback (most recent call last):
...
TypeError: <function move...> already has method for object <object ...

And the `when_type()` decorator only accepts classes or types::

>>> @move.when_type(23)
... def move_23(item, target):
...     print("You have no chance to survive!")
Traceback (most recent call last):
...
TypeError: 23 is not a type or class

Methods defined for supertypes are inherited following MRO order::

>>> class MyString(str):
...     """String subclass"""
>>> move(MyString("ladies"), "drinks")
How are you ladies!!
All your drinks are belong to us.

Classic class instances are also supported (although the lookup process
is slower than for new-style instances):

>>> class X: pass
>>> class Y(X): pass

>>> @move.when_type(X)
... def move_x(item, target):
...     print("Someone set us up the %s!!!" % (target,))

>>> move(X(), "bomb")
Someone set us up the bomb!!!

>>> move(Y(), "dance")
Someone set us up the dance!!!

Multiple Types or Objects
-------------------------

As a convenience, you can now pass more than one type or object to the
registration methods:

>>> @generic
... def isbuiltin(ob):
...     return False
>>> @isbuiltin.when_type(int, str, float, complex, type)
... @isbuiltin.when_object(None, Ellipsis)
... def yes(ob):
...     return True

>>> isbuiltin(1)
True
>>> isbuiltin(object)
True
>>> isbuiltin(object())
False
>>> isbuiltin(X())
False
>>> isbuiltin(None)
True
>>> isbuiltin(Ellipsis)
True
Defaults and Docs
--------------

You can obtain a function’s default implementation using its `default` attribute:

```python
>>> @move.when_type(Y)
... def move_y(item, target):
...     print("Someone set us up the %s!!!" % (target,))
...     move.default(item, target)

>>> move(Y(), "dance")
Someone set us up the dance!!!
what you say?!
```

```
`help()` and other documentation tools see generic functions as normal
function objects, with the same name, attributes, docstring, and module as
the prototype/default function:

```python
>>> help(move)
Help on function move:
...
move(*args, **kw)
Default implementation goes here
...
```

Inspection and Extension
-----------------------

You can find out if a generic function has a method for a type or object using
the `has_object()` and `has_type()` methods:

```python
>>> move.has_object(zig)
True
>>> move.has_object(42)
False

>>> move.has_type(X)
True
>>> move.has_type(float)
False
```

Note that `has_type()` only queries whether there is a method registered for
the *exact* type, not subtypes or supertypes:
>>> class Z(X): pass
>>> move.has_type(Z)
False

You can create a generic function that "inherits" from an existing generic
function by calling ``generic()`` on the existing function::

>>> move2 = generic(move)
>>> move(2101, "war")
In AD 2101, war was beginning.

Any methods added to the new generic function override *all* methods in the
"base" function::

>>> @move2.when_type(X)
... def move2_X(item, target):
...     print("You have no chance to survive make your %s!" % (target,))

>>> move2(X(), "time")
You have no chance to survive make your time!

>>> move2(Y(), "time")
You have no chance to survive make your time!

Notice that even though ``move()`` has a method for type ``Y``, the method
defined for ``X`` in ``move2()`` takes precedence. This is because the
``move`` function is used as the "default" method of ``move2``
has no method for type "Y"::

>>> move2.default is move
True
>>> move.has_type(Y)
True
>>> move2.has_type(Y)
False

Limitations
-----------

* The first argument is always used for dispatching, and it must always be
  passed *positionally* when the function is called.

* Documentation tools don’t see the function's original argument signature, so
  you have to describe it in the docstring.

* If you have optional arguments, you must duplicate them on every method in
order for them to work correctly. (On the plus side, it means you can have
different defaults or required arguments for each method, although relying on
that quirk probably isn't a good idea.)

These restrictions may be lifted in later releases, if I feel the need. They
would require runtime code generation the way I do it in ``RuleDispatch``,
however, which is somewhat of a pain. (Alternately I could use the
``BytecodeAssembler`` package to do the code generation, as that's a lot easier
to use than string-based code generation, but that would introduce more
dependencies, and I'm trying to keep this simple so I can just
toss it into Chandler without a big footprint increase.)

.. _excellent alternative to the Visitor pattern: http://peak.telecommunity.com/DevCenter/VisitorRevisited

Platform: UNKNOWN

Found in path(s):
* /opt/cola/permits/1162148589_1620793107.64/0/python-simplegeneric-0.8-8.el8ost.src.rpm-cosi-expand-archive-
mrz2w1di/simplegeneric-0.8.zip-cosi-expand-archive-Nse1cqhB/simplegeneric-0.8/PKG-INFO
* /opt/cola/permits/1162148589_1620793107.64/0/python-simplegeneric-0.8-8.el8ost.src.rpm-cosi-expand-archive-
mrz2w1di/simplegeneric-0.8.zip-cosi-expand-archive-Nse1cqhB/simplegeneric-0.8/simplegeneric.egg-info/PKG-
INFO

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1.847 libmcpp 2.7.2 20.el8

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1.849 python3-logutils 0.3.5 6.1.el8ost

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1.859 amqp 2.4.0

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1.860 libvorbis 1.3.6 2.el8

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1.862 python3-xstatic-angular-gettext 2.3.8.0 2.el8ost

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Metadata-Version: 1.0
Name: XStatic-Angular-Gettext
Version: 2.3.8.0
Summary: Angular-Gettext 2.3.8 (XStatic packaging standard)
Home-page: https://angular-gettext.rocketeer.be/
Author: Rob Cresswell
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Description: XStatic-Angular-Gettext
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Angular-Gettext javascript library packaged for setuptools (easy_install) / pip.

This package is intended to be used by **any** project that needs these files.

It intentionally does **not** provide any extra code except some metadata
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You can find more info about the xstatic packaging way in the package ‘XStatic’.

Keywords: angular_gettext xstatic
Platform: any

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THANKS
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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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1.886 httpd 2.4.37

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

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<link href="./style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No Sidebar - Default font size" />
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* GSS-API Programming Guide
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.904 dosfs-tools 4.1 6.el8

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It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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1.909 polkit-pkla-compat 0.1 12.el8
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1.916 shadow 4.4-4.1.debian

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1.917 calico-node 3.7.5

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### Details

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### Details

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Version 3, 29 June 2007

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Debian maintainer history: The original package was put together by Ian Murdock <imurdock@debian.org>, afterwards Kevin Dalley <kevind@rahul.net> took over. 2003-07 Andreas Metzler <ametzler@debian.org> followed.

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* GNU locate and its associated utilities were originally
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1.929 python3-pyserial 3.1.1 8.el8

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1.933 talloc 2.2.0 7.el8

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Configurable modular Prometheus exporter for various node metrics.

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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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---
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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=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>

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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\n" };  
} 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;
```

```perl
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

# How many elements are true

```perl
sub true { scalar grep { $$_ } @_ }
```

# How many elements are false

```perl
sub false { scalar grep { !$$_ } @_ }
```

=head1 SEE ALSO
L<Scalar::Util>, L<List::MoreUtils>

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Recent additions and current maintenance by
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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.
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.

$s = "foo";
$class = blessed $s;       # undef

$ref = [];
$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.

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

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 $obj;         # HASH
weaken($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.

```perl
{    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.

```perl
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:

```perl
@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.

unweaken($ref);

```
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
This function is slightly neater and more convenient than the otherwise-equivalent code

```perl
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

```perl
my $weak = isweak( $ref );
```

Returns true if `C<$ref>` is a weak reference.

```perl
$ref = \$foo;
$weak = isweak($ref);       # false
weaken($ref);
$weak = isweak($ref);       # true
```

B<NOTE>: Copying a weak reference creates a normal, strong, reference.

```perl
$copy = $ref;
$weak = isweak($copy);      # false
```

=head1 OTHER FUNCTIONS

=head2 dualvar

```perl
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.

```perl
$foo = dualvar 10, "Hello";
$num = $foo + 2;          # 12
$str = $foo . " world";  # Hello world
```

=head2isdual

```perl
my $dual = isdual( $var );
```


If `C<$var>` is a scalar that has both numeric and string values, the result is
$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:

$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:

#! = 1;
print("$!\n");  # "Operation not permitted"
$dual = isdual($!);  # false

You can capture its numeric and string content using:

$err = dualvar $!, $!;
$dual = isdual($err);  # true

=head2 isvstring

my $vstring = isvstring( $var );

If C<$var> is a scalar which was coded as a vstring, the result is true.

$vs   = v49.46.48;
$fmt  = isvstring($vs) ? "%vd" : "%s";  #true
printf($fmt,$vs);

=head2 looks_like_number

my $isnum = looks_like_number( $var );

Returns true if perl thinks C<$var> is a number. See L<perlapi/looks_like_number>.

=head2 openhandle

my $fh = openhandle( $fh );

Returns C<$fh> itself if C<$fh> may be used as a filehandle and is open, or is a tied handle. Otherwise C<undef> is returned.
$fh = openhandle(*STDIN);          # *STDIN
$fh = openhandle('NOTOPEN');      # undef
$fh = openhandle("scalar");      # undef

=head2 readonly

my $ro = readonly( $var );

Returns true if 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 C<$code> reference, or deletes it if C<$prototype> is C<undef>. Returns the C<$code> reference itself.

  set_prototype \&foo, '$$';

=head2 tainted

my $t = tainted( $var );

Return true if 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 L</isweak> or 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>

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Additionally L</weaken> and L</isweak> which are

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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

ppport.h - Perl/Pollution/Portability version 3.19_02

=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 5.11.5.

=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 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.

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

=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 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:
#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.

<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>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>
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<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
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<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
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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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<tr>
<td>grok_oct()</td>
<td></td>
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<td>NEED_load_module_GLOBAL</td>
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<tr>
<td>my_snprintf()</td>
<td>NEED_my_snprintf</td>
<td>NEED_my_snprintf_GLOBAL</td>
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<tr>
<td>my_sprintf()</td>
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<tr>
<td>my_strlcat()</td>
<td>NEED_my_strlcat</td>
<td>NEED_my_strlcat_GLOBAL</td>
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<tr>
<td>my_strlcpy()</td>
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<td>NEED_my_strlcpy_GLOBAL</td>
</tr>
<tr>
<td>newCONSTSUB()</td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUB_GLOBAL</td>
</tr>
<tr>
<td>newRV_noinc()</td>
<td>NEED_newRV_noinc</td>
<td>NEED_newRV_noinc_GLOBAL</td>
</tr>
<tr>
<td>newSV_type()</td>
<td>NEED_newSV_type</td>
<td>NEED_newSV_type_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_flags()</td>
<td>NEED_newSVpvn_flags</td>
<td>NEED_newSVpvn_flags_GLOBAL</td>
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<tr>
<td>newSVpvn_share()</td>
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<td>NEED_newSVpvn_share_GLOBAL</td>
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<td>NEED_pv_display_GLOBAL</td>
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<tr>
<td>sv_2pvbyte()</td>
<td></td>
<td>NEED_sv_2pvbyte_GLOBAL</td>
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<tr>
<td>sv_catpvf_mg()</td>
<td></td>
<td>NEED_sv_catpvf_mg_GLOBAL</td>
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<tr>
<td>sv_catpvf_mg_nocontext()</td>
<td></td>
<td>NEED_sv_catpvf_mg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>sv_pvn_force_flags()</td>
<td></td>
<td>NEED_sv_pvn_force_flags_GLOBAL</td>
</tr>
<tr>
<td>sv_setpvf_mg()</td>
<td></td>
<td>NEED_sv_setpvf_mg_GLOBAL</td>
</tr>
<tr>
<td>sv_setpvf_mg_nocontext()</td>
<td></td>
<td>NEED_sv_setpvf_mg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>vload_module()</td>
<td></td>
<td>NEED_vload_module_GLOBAL</td>
</tr>
<tr>
<td>vnewSVpvf()</td>
<td></td>
<td>NEED_vnewSVpvf_GLOBAL</td>
</tr>
<tr>
<td>warner()</td>
<td></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<DPPL_NAMESPACE>`
macro. Just \texttt{C\#define} the macro before including \texttt{C\ppport.h}:

\begin{verbatim}
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
\end{verbatim}

The default namespace is \texttt{C\DPPP\_}.

=back

The good thing is that most of the above can be checked by running \texttt{F\ppport.h} on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether \texttt{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, \texttt{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 \texttt{C\diff} program or options, using the \texttt{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.
Any other information that you think could be relevant.

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.]+)/;  # line feed
my $LF = '(?:\r\n|\[\r\n\])';  # horizontal whitespace
my $HS = '[ \t]';
Never use C comments in this file!

```perl
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.
"; 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+)|([^|]*)|([^|]*)|([^|]*)$/
  ? ( $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 ) : ()),
  }) : ();
```

Open Source Used In Cisco VIM 4.2.0

PL_ofsgv
PL_opfreehook
PL_parser
PL_perl_destruct_level
PL_perldb
PL_ppadd
PL_rsf_filters
PL_rsf
PL_signals
PL_stack_base
PL_stack_sp
PL_standingv
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PL_sv_no
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PL_tainted
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POPspbytex
POPspx
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PUTBACK
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ck_sassign
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ck_spair
ck_split
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ckwarn
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cl_anything
cl_init_zero
cl_init
cl_is_anything
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cop_free
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croak_xs_usage
croak
csighandler
curmad
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custom_op_name
cv_ckptproto_len
cv_clone
cv_const_sv
cv_dump
cv_undef
cx_dump
cx_dup
cxinc||
dAXMARK|5.009003||p
dAX|5.007002||p
dITEMS|5.007002||p
dMARK||
dMULTICALL|5.009003|
DMY_CTX_SV|5.007003||p
DMY_CTX|5.007003||p
DNOOP|5.006000||p
DOOR1MARK||
DVAR||
DTHR|5.004050||p
DTHXR|5.011004||p
DTHXa|5.006000||p
DTHXoa|5.006000||p
DTHX|5.006000||p
DUNDERBAR|5.009002||p
DVAR|5.009003||p
DXCPT|5.009002||p
DXSARGS||
DXSI32||
DXSTARG|5.006000||p
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deb_stack_n||
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do_trans_simple_utf8||
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docatch||
doeval||
dofile||
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dopoptolabel||
dopoptoloop||
dopoptosub_at||
dopoptowhen||
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dounwind||
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dump_all|n

dump_eval||
dump_exec_pos||
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dump_packsubs||
dump_sub_perl||
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dump_trie_interim_table||
dump_trie||
dump_vindent|v

dumpuntil||
dup_attrlist||
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hv_undef
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ibcmp
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incpush_if_exists
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incpush
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init_global_struct
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init_i18n
init_ids
init_interp
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init_perllib
init_postdump_symbols
init_predump_symbols
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intuit_more
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io_close
isALNUMC
isALNUM
isALPHA
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magic_setenv||
magic_sethint||
magic_setisa||
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magic_setnkeys||
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magic_setregexexp||
magic_setsig||
magic_setsubstr||
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my_htolei|n
my_htole|n
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my_letoh16|n
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my_letohi|n
my_letohl|n
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my_memset|n
my_ntohl|n
my_pclose|5.004000|
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my_stat|n
my_strftime|5.007002|
my_strlcat|5.009004|pn
my_strlcpy|5.009004|pn
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my_swap|n
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sv_insert_flags|5.010001|
sv_insert|%
sv_isa|%
sv_isobject|%
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sv_kill_backrefs|%
sv_len=utf8|5.006000|
sv_len|%
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sv_magicext|5.007003|
sv_magic|%
sv_mortalcopy|%
sv_ncmp|%
sv_newmortal|%
sv_newref|%
sv_nolocking|5.007003|
sv_nosharing|5.007003|
sv_nounlocking|%
sv_nv|5.005000|
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sv_pos_u2b_cached|%
sv_pos_u2b_flags|5.011005|
sv_pos_u2b_forwards|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_forceFlags|5.007002|p
sv_pvn_force|%
sv_pvn_nomg|5.007003|5.005000|p
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sv_reftype|%
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sv_replace|%
sv_report_used|%
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sv_rvweaken|5.006000|
sv_setiv_mg|5.004050|p
sv_setiv|%
sv_setnv_mg|5.006000|p
sv_setnv|||
sv_setpv_mg[5.004050]|p
sv_setpvf_mg_nocontext|||pvn
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sv_setsv|||
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sv_tainted[5.004000]
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sv_uv[5.005000]|p
sv_vcatpvf_mg[5.006000]|5.004000|p
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watch||
whichsig||
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write_to_stderr||
xml_dump_all_perl||
xml_dump_all||
xml_dump_attribute||
xml_dump_eval||
xml_dump_form||
xml_dump_indent||
xml_dump_patternperl||
xml_dump_pattern||
xml_dump_pattern_subperl||
xml_dump_pattern_sub||
xml_dump_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}), "un";
  }
  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]\[^*]*\*+)* / | /\[^
\]* ) | "[^"\\]*(?:\\..[^"\\]*)*" }{}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
";
    }
} else { undef $hint }

$hint = [$1, [split /,\s*/,, $2]]
    if m{\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,\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_\(my_(\w+)\)};

$replace = $1 if m{\s*$srcs\s+Replace:<(\d+)>\s+$rcce\s*$};
$replace[$2] = $1 if $replace and m{\s*$\s*define\s+\(\w+\)(?:\^(\w+))\s*($rcce\s*$)};
$replace[$2] = $1 if m{\s*$\s*define\s+\(?:(\w+))\s*($rcce\s*$)};
$replace[$1] = $2 if m{\s*$srcs\s+Replace \(\w+\) with \(\w+\)\s*($rcce\s*$)};
if (m{^ls$rccs\$s+\(w+\(ls*,ls*w+w+\)*\)ls+depends\$s+on\$s+\(w+\(ls*,ls*w+w+\)*\)ls+$rccs\$s$}) { 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”; 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 “\n$hints{$f}” if exists $hints{$f}; print “\nWARNING:\n$warnings{$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’}.”;
 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);
# 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;

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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*define\$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
  if (exists $need{$3}) {
    $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}) {
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*}
{$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);

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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"
;  }
}

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";
  } elsif ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func$HS+b.*$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$HS+_GLOBAL:b.*$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$HS+_\w+)/$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+_\w+\+?)/$1$pp/ms)
                || ($c =~ s/^(?=$HS*#$HS*include.*$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.*$ppport\E.*$SLF//m);  
    }
# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$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 "$filename"");
        } else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of "$filename' with changes to "$newfile"");
                print F $c;
                close F;
            } else {
                error("Cannot open "$newfile' for writing: $!");
            }
        }
    } elsif (exists $opt{patch} || $opt{changes}) {
        if (exists $opt{patch}) {
            unless ($patch_opened) {
                if (open PATCH, ">$opt{patch}") {
                    
                } else { 
                    error("Cannot open "$opt{patch}' for writing: $!");
                }
            }
        }
    }
}
$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 ? " \" : ";
    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
 diff -u \$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 $seen->{func}++;
    my %s;
    grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
}

sub parse_version
{
    my $ver = shift;

    if ($ver =~ /^\d+.(\d+).\d+$/s) {
        return ($1, $2, $3);
    }
    elsif ($ver !~ /^\d+\d+$/s) {
        die "cannot parse version '$ver'
    }

    $ver =~ s/_//g;
    $ver =~ s/$/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 "cannot parse version '$ver'
        }
    }

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

sub format_version
{
    my $ver = shift;

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

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

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

    return ($r, $v, $s);
}
```perl
$ver =~ s/$/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 "%.%03d", $r, $v;
    $s > 0 and $ver .= sprintf "_%02d", $s;

    return $ver;
}

return sprintf "%.%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]\<[^\>]+>/\^X/;#S+X $0/;
    $usage =~ s/\s+(?=([A-Z])<[^\>]+>)/\^X/;#S+X $0/;
    $usage =~ s/'^\s*perl\s+\S+X $0/;
    $usage =~ s/\s+(?=([A-Z])<[^\>]+>)/\^X/;#S+X $0/;
    $usage =~ s/\^\s*perl\s+\S+X $0/;
    $usage =~ s/\s+(?=([A-Z])<[^\>]+>)/\^X/;#S+X $0/;
    print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
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*^(.*?)\s*=-/ms;
    $copy =~ s/\^\s*/\^/g;
    $self =~ s/^\^\s*Do NOT edit.*?(?=^-)/$copy/m;
    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 $VERSION.\n" . "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\n";}
}
. "Please install a newer version, or --unstrip will not work.\\n";
}
Devel::PPPort::WriteFile(\$0);
exit 0;
}
print <<END;
Sorry, but this is a stripped version of \$0.
To be able to use its original script and doc functionality,
please try to regenerate this file using:
\$^X \$0 --unstrip
END
/ms;
my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
$c =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| ( "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' )
| ($HS+) }{ defined $2 ? ' ' : ($1 || '') }gsex;
$c =~ s!\s+$!!mg;
$c =~ s!^$LF!!mg;
$c =~ s!^\s*#\s*!#!mg;
$c =~ s!^\s+!!mg;
open OUT, ">$0" or die "cannot strip $0: $!\n";
print OUT "$pl$c\n";
exit 0;
}
__DATA__
*/
Found in path(s):
* /opt/cola/permits/1162148742_1620791288.28/0/perl-Scalar-List-Utils-1.49-2.el8-1.src.rpm-cosi-expand-archivejqL92vH0/Scalar-List-Utils-1.49.tar.gz-cosi-expand-archive-q8n29qeq/Scalar-List-Utils-1.49/ppport.h

1.943 python3-ldappool 2.4.0 2.el8ost
1.943.1 Available under license :
By order of appearance:
- Tarek Ziad <tarek@mozilla.com>
- Chris McDonough <chrism@plope.com>

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1.944 mpfr 3.1.6 1.el8

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LIBGCRYPT The Written Word  2005-04-15
Assigns past and future changes. (new: src/libgcrypt.pc.in,
src/Makefile.am, src/secmem.c, mpi/hppa1.1/mphil-mul3.S,
mpi/hppa1.1/udiv-qrnd.S, mpi/hppa1.1/mphil-mul2.S,
mpi/hppa1.1/mphil-mul1.S, mpi/Makefile.am, tests/prime.c,
tests/register.c, tests/acc.c, tests/basic.c, tests/texp.c,
tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

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(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex.
added SHA-224, changed cipher/sha256.c, added HMAC tests.)

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The ECC code cipher/ecc.c was based on code by Sergi Blanch i Torne, sergi at calcurco dot org.

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# Contributions to the urllib3 project

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  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
* Response gzip and deflate encoding support
* Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
* Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
* Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
* Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
* Bugfixes, Improvements and Test coverage

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* Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
* Design review, bugfixes, test coverage.

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* IPv6 url support and test coverage

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* Thomas Weischuh <thomas@t-8ch.de>
* Support for TLS SNI
* API unification of ssl_version/cert_reqs
* SSL fingerprint and alternative hostname verification
* Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
* Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
* Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
* Correct six.moves conflict
* Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
* Allowed to skip SSL hostname verification
* Cory Benfield <https://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

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  * Fixed a race condition

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  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs
* Arthur Grunseid <https://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

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

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
* Bugfixes relating to cleanup of connections during errors.

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  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugфикс related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
* Added length_remaining to determine remaining data to be read.
* Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
* Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
* Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
* Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
* Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
* Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
* Bugfix to pyopenssl vending

* Wolfgang Richter <wolfgang.richter@gmail.com>
* Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
* Logging improvements to include the HTTP(S) port when opening a new connection

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

* Akamai (through Jesse Shapiro) <jshapiro@akamai.com>
* Ongoing maintenance

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

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

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

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

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

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

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

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

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

1.959 gnutls 3.6.8 11.el8_2

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## version 0.1
## By Mike Hamburg (Stanford University), 2009
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The hypothetical commands `show w' and `show c' should show the
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<signature of Ty Coon>, 1 April 1989
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1.962 python3-scrypt 0.8.0 4.el8ost

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========================= Python scrypt_bindings
This is a set of Python bindings for the scrypt key derivation function.

Scrypt is useful when encrypting password as it is possible to specify a *minimum* amount of time to use when encrypting and decrypting. If, for example, a password takes 0.05 seconds to verify, a user won’t notice the slight delay when signing in, but doing a brute force search of several billion passwords will take a considerable amount of time. This is in contrast to more traditional hash functions such as MD5 or the SHA family which can be implemented extremely fast on cheap hardware.

Installation
============

You can install py-scrypt from this repository if you want the latest but possibly non-compiling version::

$ hg clone http://bitbucket.org/mhallin/py-scrypt
$ cd py-scrypt
$ python setup.py build

Become superuser (or use virtualenv):
# python setup.py install

Run tests after install:
$ python setup.py test

Or you can install the latest release from PyPi::

$ pip install scrypt

If you want py-scrypt for your Python 3 environment, just run the above commands with your Python 3 interpreter. Py-scrypt supports both Python 2 and 3.

From version 0.6.0 (not available on PyPi yet), py-scrypt supports PyPy as well.

Usage
=====

For encryption/decryption, the library exports two functions `encrypt` and `decrypt`::

```python
>>> import scrypt
```
```python
>>> data = scrypt.encrypt('a secret message', 'password', maxtime=0.1)  # This will take at least 0.1 seconds
>>> data[:20]
'scryptx00r\x00x00x00x00x00x00x00x00x00x00x00x01RX9H'
>>> scrypt.decrypt(data, 'password', maxtime=0.1)  # This will also take at least 0.1 seconds
'a secret message'
>>> scrypt.decrypt(data, 'password', maxtime=0.05)  # scrypt won't be able to decrypt this data fast enough
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
scrypt.error: decrypting file would take too long
```
```
>>> scrypt.decrypt(data, 'wrong password', maxtime=0.1)  # scrypt will throw an exception if the password is incorrect
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
scrypt.error: password is incorrect

From these, one can make a simple password verifier using the following functions::

```python
def hash_password(password, maxtime=0.5, datalength=64):
    return scrypt.encrypt(os.urandom(datalength), password, maxtime=maxtime)

def verify_password(hashed_password, guessed_password, maxtime=0.5):
    try:
        scrypt.decrypt(hashed_password, guessed_password, maxtime)
        return True
    except scrypt.error:
        return False
```

But, if you want output that is deterministic and constant in size, you can use the ``hash`` function::

```python
>>> import scrypt
>>> h1 = scrypt.hash('password', 'random salt')
>>> len(h1)  # The hash will be 64 bytes by default, but is overridable.
64
>>> h1[:10]
'\xfe\x87\xf3\htUo\xcd\xc8'
```
the source for the currently latest version of the library in this repository. When a new version arrives, I will update these sources.

`Kelvin Wong`_ on Bitbucket provided changes to make the library available on Mac OS X 10.6 and earlier, as well as changes to make the library work more like the command-line version of scrypt by default. Kelvin also contributed with the unit tests, lots of cross platform testing and work on the ``hash`` function.

Burstaholic_ on Bitbucket provided the necessary changes to make the library build on Windows.

The `python-appveyor-demo`_ repository for setting up automated Windows builds for a multitude of Python versions.

License
======

This library is licensed under the same license as scrypt; 2-clause BSD.

`scrypt`: http://www.tarsnap.com/scrypt.html
`Python`: http://python.org
`Burstaholic`: https://bitbucket.org/Burstaholic
`Kelvin Wong`: https://bitbucket.org/kelvinwong_ca
`python-appveyor-demo`: https://github.com/ogrisel/python-appveyor-demo

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Metadata-Version: 1.1
Name: scrypt
Version: 0.8.0
Summary: Bindings for the scrypt key derivation function library
Home-page: http://bitbucket.org/mhallin/py-scrypt
Author: Magnus Hallin
Author-email: mhallin@gmail.com
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Description: =========================
Python scrypt_ bindings
========================
This is a set of Python bindings for the scrypt key derivation function.

Scrypt is useful when encrypting password as it is possible to specify a *minimum* amount of time to use when encrypting and decrypting. If, for example, a password takes 0.05 seconds to verify, a user won't notice the slight delay when signing in, but doing a brute force search of several billion passwords will take a considerable amount of time. This is in contrast to more traditional hash functions such as MD5 or the SHA family which can be implemented extremely fast on cheap hardware.

Installation
============

You can install py-scrypt from this repository if you want the latest but possibly non-compiling version::

    $ hg clone http://bitbucket.org/mhallin/py-scrypt
    $ cd py-scrypt
    $ python setup.py build

    Become superuser (or use virtualenv):
    # python setup.py install

    Run tests after install:
    $ python setup.py test

Or you can install the latest release from PyPi::

    $ pip install scrypt

If you want py-scrypt for your Python 3 environment, just run the above commands with your Python 3 interpreter. Py-scrypt supports both Python 2 and 3.

From version 0.6.0 (not available on PyPi yet), py-scrypt supports PyPy as well.

Usage
=====

Fore encryption/decryption, the library exports two functions `encrypt` and `decrypt`::

    >>> import scrypt
    >>> data = scrypt.encrypt('a secret message', 'password', maxtime=0.1) # This will take at least 0.1 seconds
    >>> data[:20]
From these, one can make a simple password verifier using the following functions:

```python
def hash_password(password, maxtime=0.5, datalength=64):
    return scrypt.encrypt(os.urandom(datalength), password, maxtime=maxtime)

def verify_password(hashed_password, guessed_password, maxtime=0.5):
    try:
        scrypt.decrypt(hashed_password, guessed_password, maxtime)
        return True
    except scrypt.error:
        return False
```

But, if you want output that is deterministic and constant in size, you can use the `hash` function:

```python
>>> import scrypt
>>> h1 = scrypt.hash('password', 'random salt')
>>> len(h1)  # The hash will be 64 bytes by default, but is overridable.
64
>>> h1[:10]
'\xfe\x87\xf3hS\tUo\xc8\xc8'
>>> h2 = scrypt.hash('password', 'random salt')
>>> h1 == h2  # The hash function is deterministic
True
```

Acknowledgements

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

Scrypt_ was created by Colin Percival and is licensed as 2-clause BSD. Since scrypt does not normally build as a shared library, I have included the source for the currently latest version of the library in this repository. When a new version arrives, I will update these sources.

---

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Kelvin Wong on Bitbucket provided changes to make the library available on Mac OS X 10.6 and earlier, as well as changes to make the library work more like the command-line version of scrypt by default. Kelvin also contributed with the unit tests, lots of cross platform testing and work on the ```hash``` function.

Burstaholic on Bitbucket provided the necessary changes to make the library build on Windows.

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1.963 libgpg-error 1.31 1.el8

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; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=aarch64-- | FileCheck %s

; A shuffle mask with all undef elements is always legal.

define <4 x i32> @PR41535(<2 x i32> %p1, <2 x i32> %p2) {
; CHECK-LABEL: PR41535:
; CHECK:       // %bb.0:
; CHECK-NEXT:   ext v0.8b, v0.8b, v1.8b, #4
; CHECK-NEXT:   mov v0.d[1], v0.d[0]
; CHECK-NEXT:   ret
%cat1 = shufflevector <2 x i32> %p1, <2 x i32> undef, <4 x i32> <i32 undef, i32 1, i32 undef, i32 undef>
%cat2 = shufflevector <2 x i32> %p2, <2 x i32> undef, <4 x i32> <i32 0, i32 undef, i32 undef, i32 undef>
%r = shufflevector <4 x i32> %cat1, <4 x i32> %cat2, <4 x i32> <i32 undef, i32 undef, i32 1, i32 4>
ret <4 x i32> %r
}
; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinsets | FileCheck %s :
; Test that early if conversion produces LOCR with operands of the right
; register classes.

define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
    %L34 = load i8, i8* %0
    %Cmp56 = icmp sgt i8 undef, %L34
    br label %CF246
CF246: ; preds = %CF246, %BB
    %Sl163 = select i1 %Cmp56, i8 %L34, i8 undef
    br i1 undef, label %CF246, label %CF248
CF248: ; preds = %CF248, %CF246
    store i8 %Sl163, i8* %0
    br label %CF248
}
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; NOTE: Assertions have been autogenerated by utils/update_analyze_test_checks.py
; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-prefixes=CHECK,VEC256,AVX
define void @zext256() "min-legal-vector-width"="256" {
    VEC256-LABEL: 'zext256'
    VEC256-NEXT:  Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    VEC256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    VEC256-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    VEC256-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    VEC256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    VEC256-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
}

define void @zext512() "min-legal-vector-width"="512" {
    AVX-LABEL: 'zext512'
    AVX-NEXT:  Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    AVX-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    AVX-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    AVX-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    AVX-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    AVX-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
}
define void @sext256() "min-legal-vector-width"="256" {
    ; VEC256-LABEL: 'sext256'
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    ;
    %A = sext <8 x i16> undef to <8 x i64>
    %B = sext <8 x i32> undef to <8 x i64>
    %C = sext <16 x i8> undef to <16 x i32>
    %D = sext <16 x i16> undef to <16 x i32>
    %E = sext <32 x i8> undef to <32 x i16>
    ret void
}

define void @sext512() "min-legal-vector-width"="512" {
    ; VEC512-LABEL: 'sext512'
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    ;
    %A = sext <8 x i16> undef to <8 x i64>
    %B = sext <8 x i32> undef to <8 x i64>
    %C = sext <16 x i8> undef to <16 x i32>
    %D = sext <16 x i16> undef to <16 x i32>
    %E = sext <32 x i8> undef to <32 x i16>
    ret void
}
define void @sext512() "min-legal-vector-width"="512" {
    ; AVX-LABEL: 'sext512'
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ret void
}

; SKX256-LABEL: 'sext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>

; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'sext256'
; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
    %A = sext <8 x i8> undef to <8 x i64>
    %B = sext <8 x i16> undef to <8 x i64>
    %C = sext <8 x i32> undef to <8 x i64>
    %D = sext <16 x i8> undef to <16 x i32>
    %E = sext <16 x i16> undef to <16 x i32>
    %F = sext <32 x i8> undef to <32 x i16>
    ret void
}
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; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
  entry:
  br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph: ; preds = %entry
  br label %while.body

while.body: ; preds = %exit.2, %while.body.lr.ph
  %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
  switch i32 undef, label %exit [ i32 1, label %sw.bb.i i32 2, label %sw.bb3.i ]

sw.bb.i: ; preds = %while.body
  unreachable

sw.bb3.i: ; preds = %while.body
  unreachable

exit: ; preds = %while.body
  switch i32 undef, label %exit.2 [ i32 1, label %sw.bb.i17 ]
i32 2, label %sw.bb3.i20
]

sw.bb.i17: ; preds = %.exit
%0 = bitcast %struct.0* %lsr.iv to i32*
%1 = load i32, i32* %0, align 4
unreachable

sw.bb3.i20: ; preds = %exit
%2 = bitcast %struct.0* %lsr.iv to i8**
%3 = load i8*, i8** %2, align 4
unreachable

exit.2: ; preds = %exit
%cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
br label %while.body

while.end: ; preds = %entry
ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s
define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
; CHECK-LABEL: test_sitofp_fixed:
; First, extend each i32 to i64
; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

; CHECK: ret
define double @test_sitofp_fixed_shortish(<4 x i64> %in) {
    %flt = sitofp <4 x i64> %in to <4 x double>
    %res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
    ret <4 x double> %res
}

define void @innerSmall() "min-legal-vector-width"="128" {
    ret void
}

define void @innerLarge() "min-legal-vector-width"="512" {
    ret void
}

define void @innerNoAttribute() {
    ret void
}

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this
; function.
define void @outerNoAttribute() {
    call void @innerLarge()
    ret void
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
    call void @innerLarge()
    ret void
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
    call void @innerSmall()
    ret void
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
    %flt = sitofp <16 x i32> %in to <16 x double>
    %res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
    ret <16 x double> %res
}
ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
  call void @innerNoAttribute()
  ret void
}

; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }

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; RUN: opt -consthoist -S -o - %s | FileCheck %s
target triple = "thumbv6m-none--musleabi"

; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
; CHECK: foo_i8
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874720 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK-DAG: %[[C3:const[0-9]??]] = bitcast i32 805873720 to i32
; CHECK-DAG: %[[C4:const[0-9]??]] = bitcast i32 805873688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i8*
; CHECK-NEXT: %1 = load volatile i8, i8* %0
; CHECK-NEXT: %[[M1:const_mat[0-9]??]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i8*
; CHECK-NEXT: %3 = load volatile i8, i8* %2
; CHECK-NEXT: %4 = inttoptr i32 %[[C2]] to i8*
; CHECK-NEXT: %5 = load volatile i8, i8* %4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i8*
; CHECK-NEXT: %7 = load volatile i8, i8* %6
; CHECK-NEXT: %8 = inttoptr i32 %[[C1]], 7
; CHECK-NEXT: %9 = load volatile i8, i8* %8
; CHECK-NEXT: %10 = inttoptr i32 %[[C4]] to i8*
; CHECK-NEXT: store i8 %9, i8* %10
; CHECK-NEXT: %[[M4:const_mat[0-9]??]] = add i32 %[[C4]], 31
; CHECK-NEXT: %11 = inttoptr i32 %[[M4]] to i8*
; CHECK-NEXT: store i8 %7, i8* %11
; CHECK-NEXT: %12 = inttoptr i32 %[[C3]] to i8*
; CHECK-NEXT: store i8 %5, i8* %12
; CHECK-NEXT: %[[M5:const_mat[0-9]??]] = add i32 %[[C3]], 7
; CHECK-NEXT: %13 = inttoptr i32 %[[M5]] to i8*
; CHECK-NEXT: store i8 %3, i8* %13
; CHECK-NEXT: %[[M6:const_mat[0-9]??]] = add i32 %[[C1]], 80
; CHECK-NEXT: %14 = inttoptr i32 %[[M6]] to i8*
; CHECK-NEXT: store i8* %14, i8** @goo

@goo = global i8* undef

define void @foo_i8() {
  entry:
  %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
  %1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
  %2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
  %3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
  %4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
  store i8 %4, i8* inttoptr(i32 805873688 to i8*)
  store i8 %3, i8* inttoptr(i32 805873719 to i8*)
  store i8 %2, i8* inttoptr(i32 805873720 to i8*)
  store i8 %1, i8* inttoptr(i32 805873727 to i8*)
  store i8* inttoptr(i32 805874800 to i8*), i8** @goo
; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add i32 %[[C2]], 32
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %[[M3:const_mat[0-9]?]] = add i32 %[[C2]], 62
; CHECK-NEXT: %6 = inttoptr i32 %[[M3]] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %8 = inttoptr i32 %[[C1]] to i16*
; CHECK-NEXT: %9 = load volatile i16, i16* %8, align 2
; CHECK-NEXT: %[[M4:const_mat[0-9]?]] = add i32 %[[C1]], 22
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i16*
; CHECK-NEXT: %11 = load volatile i16, i16* %10, align 2

define void @foo_i16() {
  entry:
  %0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
  %1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
  %2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
  %3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
  %4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
  %5 = load volatile i16, i16* inttoptr (i32 805874774 to i16*), align 2
  ret void
}

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874816 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT: %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i32*
; CHECK-NEXT: %3 = load volatile i32, i32* %2, align 4
; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add i32 %[[C2]], 124
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i32*
; CHECK-NEXT: %5 = load volatile i32, i32* %4, align 4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i32*
define void @foo_i32() {
  entry:
  %0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
  %1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
  %2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
  %3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
  %4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
  %5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
  ret void
}

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define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: add256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT:    vpaddd 32(%rsi), %ymm1, %ymm1

; This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the
legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

; NOTE: Assertions have been autogenerated by utils/update_ltc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=avx512vl,avx512bw,avx512dq,prefer-256-bit |
; FileCheck %s
define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: avg_v64i8_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vmovdqa64 (%rsi), %zmm0
    ; CHECK-NEXT:  vpavgb (%rdi), %zmm0, %zmm0
    ; CHECK-NEXT:  vmovdqu64 %zmm0, (%rax)
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %1 = load <64 x i8>, <64 x i8>* %a
    %2 = load <64 x i8>, <64 x i8>* %b
    %3 = zext <64 x i8> %1 to <64 x i32>
    %4 = zext <64 x i8> %2 to <64 x i32>
    %5 = add nuw nsw <64 x i32> %3, %4
    %6 = add nuw nsw <64 x i32> %5, %6
    %7 = lshr <64 x i32> %6, %7
    %8 = trunc <64 x i32> %7 to <64 x i8>
    store <64 x i8> %8, <64 x i8>* undef, align 4
    ret void
}

define void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: pmaddwd_32_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:  vpmaddwd 32(%rsi), %ymm0
    ; CHECK-NEXT:  vpmaddwd (%rsi), %ymm1
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}

define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="512" {
; CHECK-LABEL: pmaddwd_32_512:
; CHECK:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpmaddwd (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}

define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
; CHECK-LABEL: psubus_64i8_max_256:
; CHECK:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpsubusb 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT: vpsubusb (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq

%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {

; CHECK-LABEL: psubus_64i8_max_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpsubusb (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {

; CHECK-LABEL: _Z9test_charPcS_i_256:
; CHECK: # %bb.0: # %entry
; CHECK-NEXT: movl %edx, %eax
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: xorl %ecx, %ecx
; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT: vpxor %xmm2, %xmm2, %xmm2
; CHECK-NEXT: .p2align 4, 0x90
; CHECK-NEXT: .LBB8_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vpmovsxbw (%rdi,%rcx), %ymm3
; CHECK-NEXT: vpmovsxbw 16(%rdi,%rcx), %ymm4
; CHECK-NEXT: vpmovsxbw (%rsi,%rcx), %ymm5
; CHECK-NEXT: vpmaddwd %ymm3, %ymm5, %ymm3
; CHECK-NEXT: vpaddd %ymm1, %ymm1, %ymm1
; CHECK-NEXT: vpmovsxbw 16(%rsi,%rcx), %ymm3
; CHECK-NEXT: vpmaddwd %ymm4, %ymm3, %ymm3
; CHECK-NEXT: vpadd %ymm1, %ymm3, %ymm1
; CHECK-NEXT: vpmovsxbw 16(%rsi,%rcx), %ymm3
; CHECK-NEXT: vpmaddwd %ymm4, %ymm3, %ymm3
; CHECK-NEXT: vpadd %ymm2, %ymm3, %ymm2
; CHECK-NEXT: addq $32, %rcx
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 unde

define i32 @Z9test_charPeS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: _Z9test_charPeS_i_512:
    ; CHECK:    # %bb.0: # %entry
    ; CHECK-NEXT: movl %edx, %eax
    ; CHECK-NEXT: vp xor %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT: xorl %ecx, %ecx
    ; CHECK-NEXT: vp xor %xmm1, %xmm1, %xmm1
    ; CHECK-NEXT: .p2align 4, 0x90
    ; CHECK-NEXT: .LBB9_1: # %vector.body
    ; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
    ; CHECK-NEXT: vpmovsxbw (%rdi,%rcx), %zmm2
    ; CHECK-NEXT: vpmovsxbw (%rsi,%rcx), %zmm3
    ; CHECK-NEXT: vpmaddwd %zmm2, %zmm3, %zmm2
    ; CHECK-NEXT: vpaddd %zmm1, %zmm2, %zmm1
    ; CHECK-NEXT: addq $32, %rcx
    ; CHECK-NEXT: cmpq %rcx, %rax
    ; CHECK-NEXT: jne .LBB9_1
    ; CHECK-NEXT: # %bb.2: # %middle.block
    ; CHECK-NEXT: vpaddd %zmm0, %zmm1, %zmm0
    ; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm1
    ; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
    ; CHECK-NEXT: vextracti128 $1, %y whole text below is clipped
entry:
%3 = zext i32 %2 to i64
br label %vector.body

vector.body:
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%10 = mul nsw <32 x i32> <i32 0, i32 1, i32 2, i32 3, i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef> %11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef> %rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 16, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx32 = add <32 x i32> %bin.rdx1, %rdx.shuf15
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%bin.rdx19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}

@a = global [1024 x i8] zeroinitializer, align 16
@b = global [1024 x i8] zeroinitializer, align 16

define i32 @sad_16i8_256() "min-legal-vector-width"="256" {
; CHECK-LABEL: sad_16i8_256:
; CHECK:     # %bb.0: # %entry
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT: .p2align 4, 0x90
; CHECK-NEXT:  .LBB10_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vmovdqu a+1024(%rax), %xmm2
; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm2
; CHECK-NEXT: vpaddd %ymm1, %ymm2, %ymm1
; CHECK-NEXT: addq $4, %rax
; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm0
; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:    vpaddd %xmm1, %ymm2, %ymm1
; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:    vmovd %xmm0, %eax
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
entry:
    br label %vector.body

vector.body:
    %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
    %vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
    %0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
    %1 = bitcast i8* %0 to <16 x i8>*
    %wide.load = load <16 x i8>, <16 x i8>* %1, align 4
    %2 = zext <16 x i8> %wide.load to <16 x i32>
    %3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
    %4 = bitcast i8* %3 to <16 x i8>*
    %wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
    %5 = zext <16 x i8> %wide.load1 to <16 x i32>
    %6 = sub nsw <16 x i32> %2, %5
    %7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
Open Source Used In Cisco VIM 4.2.0  9591

middle.block:
%.lcssa = phi <16 x i32> [ %10, %vector.body ]
%rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
  ; CHECK-LABEL: sad_16i8_512:
  ; CHECK: # %bb.0: # %entry
  ; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
  ; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
  ; CHECK-NEXT: .p2align 4, 0x90
  ; CHECK-NEXT: .LBB11_1: # %vector.body
  ; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
  ; CHECK-NEXT: vmovdqu a+1024(%rax), %xmm1
  ; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm1, %xmm1
  ; CHECK-NEXT: vpadd %zmm0, %zmm1, %zmm0
  ; CHECK-NEXT: addq $4, %rax
  ; CHECK-NEXT: jne .LBB11_1
  ; CHECK-NEXT: # %bb.2: # %middle.block
  ; CHECK-NEXT: vextracti64x4 $1, %zmm0, %xmm1
  ; CHECK-NEXT: vpadd %zmm1, %zmm0, %zmm0
  ; CHECK-NEXT: vextracti128 $1, %xmm0, %xmm1
  ; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0
  ; CHECK-NEXT: vpshufd {{.*#+}} %xmm1 = %xmm0[2,3,0,1]
; CHECK-NEXT:  vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vpshufd {{.*#+}} %xmm1 = %xmm0[1,2,3]
; CHECK-NEXT:  vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vmovd %xmm0, %eax
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq

entry:
          br label %vector.body

vector.body:
          %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
          %vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
          %0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
          %1 = bitcast i8* %0 to <16 x i8>*
          %wide.load = load <16 x i8>, <16 x i8>* %1, align 4
          %2 = zext <16 x i8> %wide.load to <16 x i32>
          %3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
          %4 = bitcast i8* %3 to <16 x i8>*
          %wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
          %5 = zext <16 x i8> %wide.load1 to <16 x i32>
          %6 = sub nsw <16 x i32> %2, %5
          %7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
          %8 = sub nsw <16 x i32> zeroinitializer, %6
          %9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
          %10 = add nsw <16 x i32> %9, %vec.phi
          %index.next = add i64 %index, 4
          %11 = icmp eq i64 %index.next, 1024
          br i1 %11, label %middle.block, label %vector.body

middle.block:
          %.lcssa = phi <16 x i32> [ %10, %vector.body ]
          %rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> %i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
          %bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf
          %rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> %i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
          %bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
          %rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> %i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
          %bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
          %rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> %i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
          %bin.rdx4 = add <16 x i32> %bin.rdx4, %rdx.shuf4
          %12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

define void @sbtol6f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbtol6f32_256:
; CHECK:    # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw S8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vcvtdq2ps %ymm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm1
; CHECK-NEXT: vcvtdq2ps %ymm1, %ymm1
; CHECK-NEXT: vmovaps %ymm1, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeronitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @sbtol6f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbtol6f32_512:
; CHECK:    # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vcvtdq2ps %zmm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeronitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @sbtol6f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbtol6f64_256:
; CHECK:    # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw S8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT: vextractl128 $1, %ymm0, %xmm0
; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm2
; CHECK-NEXT: vcvtdq2pd %ymm2, %ymm3
define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res)  "min-legal-vector-width"="512" {  
    %mask = icmp slt <16 x i16> %a, zeroinitialize    
    %1 = sitofp <16 x i1> %mask to <16 x double>    
    store <16 x double> %1, <16 x double>* %res    
    ret void    
}

define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {  
    %mask = icmp slt <16 x i16> %a, zeroinitialize    
    %1 = sitofp <16 x i1> %mask to <16 x double>    
    store <16 x double> %1, <16 x double>* %res    
    ret void    
}
define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
    %mask = icmp slt <16 x i16> %a, zeroinitialize
    %1 = uitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}

define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
    %mask = icmp slt <16 x i16> %a, zeroinitialize
    %1 = uitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}
define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" 
; CHECK-LABEL: ubto16f64_512:
; CHECK:   # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT: vcvtqd2pd %ymm0, %zmm0
; CHECK-NEXT: vextractf64x4 $1, %zmm0, %ymm0
; CHECK-NEXT: vcvtqd2pd %ymm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT: vmovaps %zmm1, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" 
; CHECK-LABEL: test_16f32toub_256:
; CHECK:   # %bb.0:
; CHECK-NEXT: vcvtpps2dq (%rdi), %ymm1
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k0
; CHECK-NEXT: vcvtpps2dq 32(%rdi), %ymm1
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k1
; CHECK-NEXT: kunpckbw %k0, %k1, %k1
; CHECK-NEXT: vmovdq16 %ymm0, %ymm0 [%k1] {z}
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" 
; CHECK-LABEL: test_16f32toub_512:
; CHECK:   # %bb.0:
; CHECK-NEXT: vcvtpps2dq (%rdi), %zmm1
; CHECK-NEXT: vpslld $31, %zmm1, %zmm1
; CHECK-NEXT: vpmovd2m %zmm1, %k1
; CHECK-NEXT: vmovdq16 %ymm0, %ymm0 [%k1] {z}
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr

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%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: test_16f32tosb_256:
    ; CHECK:       # %bb.0:
        ; CHECK-NEXT:   vcvttps2dq (%rdi), %ymm1
        ; CHECK-NEXT:   vpmovd2m %ymm1, %k0
        ; CHECK-NEXT:   vcvttps2dq 32(%rdi), %ymm1
        ; CHECK-NEXT:   vpmovd2m %ymm1, %k1
        ; CHECK-NEXT:   kunpckbw %k0, %k1, %k1
        ; CHECK-NEXT:   vmovdqu16 %ymm0, %ymm0 {%k1} {z}
    ; CHECK-NEXT:   retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptosi <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: test_16f32tosb_512:
    ; CHECK:       # %bb.0:
        ; CHECK-NEXT:   vcvttps2dq (%rdi), %zmm1
        ; CHECK-NEXT:   vpmovd2m %zmm1, %k1
        ; CHECK-NEXT:   vmovdqu16 %ymm0, %ymm0 {%k1} {z}
    ; CHECK-NEXT:   retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptosi <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}

define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: mul256:
    ; CHECK:       # %bb.0:
        ; CHECK-NEXT:   vmovdqa (%rdi), %xmm0
        ; CHECK-NEXT:   vmovdqa 32(%rdi), %ymm1
        ; CHECK-NEXT:   vmovdqa (%rsi), %ymm2
        ; CHECK-NEXT:   vpmovd2m %zmm1, %k1
        ; CHECK-NEXT:   vmovdqa 32(%rsi), %ymm3
        ; CHECK-NEXT:   vpmovd2m %zmm1, %k1
        ; CHECK-NEXT:   vpunpckhbw {{.*#+}} ymm4 =
            ymm3[8],ymm0[8],ymm3[9],ymm0[9],ymm3[10],ymm0[10],ymm3[11],ymm0[11],ymm3[12],ymm0[12],ymm3[13],ymm0[13],ymm3[14],ymm0[14],ymm3[15],ymm0[15],ymm3[24],ymm0[24],ymm3[25],ymm0[25],ymm3[26],ymm0[26],ymm3[27],ymm0[27],ymm3[28],ymm0[28],ymm3[29],ymm0[29],ymm3[30],ymm0[30],ymm3[31],ymm0[31]
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; CHECK-NEXT:  vpunpckhbw {{.*#+}} ymm5 =
              ymm1[8],ymm0[8],ymm1[9],ymm0[9],ymm1[10],ymm0[10],ymm1[11],ymm0[11],ymm1[12],ymm0[12],ymm1[13],ymm0[13],ymm1[14],ymm0[14],ymm1[15],ymm0[15],ymm1[24],ymm0[24],ymm1[25],ymm0[25],ymm1[26],ymm0[26],ymm1[27],ymm0[27],ymm1[28],ymm0[28],ymm1[29],ymm0[29],ymm1[30],ymm0[30],ymm1[31],ymm0[31]
; CHECK-NEXT:  vpmullw %ymm4, %ymm5, %ymm4
; CHECK-NEXT:  vmovdqa {{.*#+}} ymm5 =
; CHECK-NEXT:  vpand %ymm5, %ymm4, %ymm4
; CHECK-NEXT:  vpunpcklbw {{.*#+}} ymm3 =
              ymm3[0],ymm0[0],ymm3[1],ymm0[1],ymm3[2],ymm0[2],ymm3[3],ymm0[3],ymm3[4],ymm0[4],ymm3[5],ymm0[5],ymm3[6],ymm0[6],ymm3[7],ymm0[7],ymm3[16],ymm0[16],ymm3[17],ymm0[17],ymm3[18],ymm0[18],ymm3[19],ymm0[19],ymm3[20],ymm0[20],ymm3[21],ymm0[21],ymm3[22],ymm0[22],ymm3[23],ymm0[23]
; CHECK-NEXT:  vpunpcklbw {{.*#+}} ymm1 =
              ymm1[0],ymm0[0],ymm1[1],ymm0[1],ymm1[2],ymm0[2],ymm1[3],ymm0[3],ymm1[4],ymm0[4],ymm1[5],ymm0[5],ymm1[6],ymm0[6],ymm1[7],ymm0[7],ymm1[16],ymm0[16],ymm1[17],ymm0[17],ymm1[18],ymm0[18],ymm1[19],ymm0[19],ymm1[20],ymm0[20],ymm1[21],ymm0[21],ymm1[22],ymm0[22],ymm1[23],ymm0[23]
; CHECK-NEXT:  vpmullw %ymm4, %ymm3, %ymm1, %ymm1
; CHECK-NEXT:  vpand %ymm5, %ymm1, %ymm1
; CHECK-NEXT:  vpackuswb %ymm4, %ymm1, %ymm1
; CHECK-NEXT:  vpunpckhbw {{.*#+}} ymm4 =
              ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-NEXT:  vpmullw %ymm3, %ymm4, %ymm3
; CHECK-NEXT:  vmovdqa %ymm0, (%rdx)
; CHECK-NEXT:  vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq

%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void
define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: mul512:
    ; CHECK:    # %bb.0:
    ; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
    ; CHECK-NEXT: vmovdqa64 (%rsi), %zmm1
    ; CHECK-NEXT: vpunpckhbw {{.*#+}} zmm2 =
    ; CHECK-NEXT: vpunpckhbw {{.*#+}} zmm3 =
    ; CHECK-NEXT: vmovdqa64 {{.*#+}} zmm3 =
    ; CHECK-NEXT: vpunpckhbw {{.*#+}} zmm2 =
    ; CHECK-NEXT: vpunpckhbw {{.*#+}} zmm1 =
    ; CHECK-NEXT: vpandq %zmm3, %zmm2, %zmm2
    ; CHECK-NEXT: vpandq %zmm3, %zmm0, %zmm0
    ; CHECK-NEXT: vpackuswb %zmm2, %zmm0, %zmm0
    ; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %d = load <64 x i8>, <64 x i8>* %a
    %e = load <64 x i8>, <64 x i8>* %b
    %f = mul <64 x i8> %d, %e
    store <64 x i8> %f, <64 x i8>* %c
    ret void
}

; This threw an assertion at one point.
define <4 x i32> @mload_v4i32(<4 x i32> %trigger, <4 x i32>* %addr, <4 x i32> %dst) "min-legal-vector-width"="256" {
; CHECK-LABEL: mload_v4i32:
; CHECK:    # %bb.0:
; CHECK-NEXT: vptestnmd %xmm0, %xmm0, %k1
; CHECK-NEXT: vblendmd (%rdi), %xmm1, %xmm0 {%k1
; CHECK-NEXT: retq
%mask = icmp eq <4 x i32> %trigger, zeroinitializer
%res = call <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>* %addr, i32 4, <4 x i1> %mask, <4 x i32> %dst)
ret <4 x i32> %res
}
declare <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>* %addr, i32 4, <4 x i1> %mask, <4 x i32> %dst)
ret <4 x i32> %res
}
declare <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>* %addr, i32 4, <4 x i1> %mask, <4 x i32> %dst)
ret <4 x i32> %res
}
define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 { bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1) #1
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #2 { bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #2 {
bb:

; This should not promote
; CHECK-LABEL: @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1)
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1) #1
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #2 {
bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

; This should not promote
; CHECK-LABEL: @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1)
%tmp = load <8 x i64>, <8 x i64>* %arg
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
; CHECK-LABEL: @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1.val)
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #3 {
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
; CHECK-LABEL: @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1.val)
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #4 {
bb:
define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

; Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #5 = { argmemonly nounwind }

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; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
; ; D31946
; ; Check that we don't end up with the "LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
}

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)
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1.982 python3-automaton 1.17.0
1.20201113113052.5e82feb.el8ost

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

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

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

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

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

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

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

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.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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

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

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

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
That's all there is to it!
This package was debianized by Jean Pierre LeJacq
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version
2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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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
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
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-- Nathan

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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> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
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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
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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
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license in this situation.

Devin
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If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
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> > 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

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yes. go for it. thanks++

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Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

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> 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-ipvs.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])
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...)
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Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

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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.

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 Fryssinger <vapier@g...> - 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
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Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
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  for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500

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Happy now? :-)

-a
1.989 tmux 2.7 1.el8
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1.990 python-dateutil 2.5.3
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dateutil - Extensions to the standard Python datetime module.

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1.991 dumb-init 1.1.3 18.el8ost

1.991.1 Available under license :

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: dumb-init
Source: https://github.com/Yelp/dumb-init/

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1.992 python-ply 3.9 8.el8

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License: BSD

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* /opt/cola/permits/1162152883_1620794683.6/0/python-ply-3.9-8.el8-1.src.rpm-cosi-expand-archive-x8JskCWU/python-ply.spec
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Metadata-Version: 1.1
Name: ply
Version: 3.9
Summary: Python Lex & Yacc
Home-page: http://www.dabeaz.com/ply/
Author: David Beazley
Author-email: dave@dabeaz.com
License: BSD
Description:

PLY is yet another implementation of lex and yacc for Python. Some notable features include the fact that its implemented entirely in Python and it uses LALR(1) parsing which is efficient and well suited for larger grammars.

PLY provides most of the standard lex/yacc features including support for empty productions, precedence rules, error recovery, and support for ambiguous grammars.

PLY is extremely easy to use and provides very extensive error checking. It is compatible with both Python 2 and Python 3.

Platform: UNKNOWN
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 2

Found in path(s):
* /opt/cola/permits/1162152883_1620794683.6/0/python-ply-3.9-8.el8-1.src.rpm-cosi-expand-archive-x8JskCWU/ply-3.9.tar.gz-cosi-expand-archive-t2qQvq3t/ply-3.9/example/GardenSnake/GardenSnake.py
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* /opt/cola/permits/1162152883_1620794683.6/0/python-ply-3.9-8.el8-1.src.rpm-cosi-expand-archive-x8JskCWU/ply-3.9.tar.gz-cosi-expand-archive-t2qQvq3t/ply-3.9/ply/lex.py
* /opt/cola/permits/1162152883_1620794683.6/0/python-ply-3.9-8.el8-1.src.rpm-cosi-expand-archive-x8JskCWU/ply-3.9.tar.gz-cosi-expand-archive-t2qQvq3t/ply-3.9/ply/yacc.py
No license file was found, but licenses were detected in source scan.

Found in path(s):
PLY (Python Lex-Yacc) Version 3.9

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

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

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

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

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

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

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

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

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

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

```python
import ply.lex as lex
import ply.yacc as yacc
```

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

```python
import lex
import yacc
```

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

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

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

A simple example is found at the end of this document

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

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

   http://www.dabeaz.com/ply

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

The GitHub page for PLY can be found at:

   https://github.com/dabeaz/ply

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

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

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

The CHANGES file acknowledges those who have contributed patches.

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

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

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

```python
# calc.py
#
# A simple calculator with variables.
#
tokens = (  
    'NAME','NUMBER',  
    'PLUS','MINUS','TIMES','DIVIDE','EQUALS',  
    'LPAREN','RPAREN',  
)

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

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

# Ignored characters  
t_ignore = " \t"

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

def t_error(t):  
    print("Illegal character '%s'")
    t.lexer.skip(1)

# Build the lexer  
import ply.lex as lex  
```

---

**Open Source Used in Cisco VIM 4.2.0**

9695
lex.lex()

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

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

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

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

def p_expression_binop(p):
    '''expression : expression PLUS expression
    | expression MINUS expression
    | expression TIMES expression
    | expression DIVIDE expression'''

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

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

def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]

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

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

import ply.yacc as yacc
yacc.yacc()

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

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

-- Dave

Found in path(s):
* /opt/cola/permits/1162152883_1620794683.6/0/python-ply-3.9-8.el8-1.src.rpm-cosi-expand-archive-
x8JskCWU/ply-3.9.tar.gz-cosi-expand-archive-t2qQvq3t/ply-3.9/README.md

1.993 python3-configobj 5.0.6 11.el8
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1.994 mdadm 4.1 13.el8

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1.1001 kubernetes 1.10.0

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

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1.1002 adduser 3.115

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* /opt/cola/permits/1162150185_1620790189.41/0/python-XStatic-Spin-1.2.5.2-14.el8ost.src.rpm-cosi-expand-
archive-pHu4YrRO/python-XStatic-Spin.spec
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Metadata-Version: 1.0
Name: XStatic-Spin
Version: 1.2.5.2
Summary: Spin 1.2.5 (XStatic packaging standard)
Home-page: http://fgnass.github.io/spin.js/
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Keywords: spin xstatic
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* /opt/cola/permits/1162150185_1620790189.41/0/python-XStatic-Spin-1.2.5.2-14.el8ost.src.rpm-cosi-expand-archive-pHu4YrRO/XStatic-Spin-1.2.5.2.tar.gz-cosi-expand-archive-JA8TvDmP/XStatic-Spin-1.2.5.2/XStatic_Spin.egg-info/PKG-INFO
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necessary. Here is a sample; alter the names:

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

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1.1019.1 Available under license:

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Found in path(s):
* /opt/cola/permits/1162150688_1620793442.75/0/python-XStatic-smart-table-1.4.13.2-5.el8ost.src.rpm-cosi-expand-archive-IMr3QxEt/python-XStatic-smart-table.spec
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.0
Name: XStatic-smart-table
Version: 1.4.13.2
Summary: smart-table 1.4.13 (XStatic packaging standard)
Home-page: https://github.com/lorenzofox3/Smart-Table
Author: Richard Jones
Author-email: r1chardj0n3s@gmail.com
License: (same as smart-table)
Description:

XStatic-smart-table

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

smart-table javascript library packaged for setuptools (easy_install) / pip.

This package is intended to be used by **any** project that needs these files.

It intentionally does **not** provide any extra code except some metadata
**nor** has any extra requirements. You MAY use some minimal support code from
the XStatic base package, if you like.

You can find more info about the xstatic packaging way in the package
`XStatic`.

Keywords: smart-table angular table angular_smart_table xstatic
Platform: any

Found in path(s):
* /opt/cola/permits/1162150688_1620793442.75/0/python-XStatic-smart-table-1.4.13.2-5.el8ost.src.rpm-cosi-expand-archive-IMr3QxEt/XStatic-smart-table-1.4.13.2.tar.gz-cosi-expand-archive-bWKut7It/XStatic-smart-table-1.4.13.2/PKG-INFO
* /opt/cola/permits/1162150688_1620793442.75/0/python-XStatic-smart-table-1.4.13.2-5.el8ost.src.rpm-cosi-expand-archive-IMr3QxEt/XStatic-smart-table-1.4.13.2.tar.gz-cosi-expand-archive-bWKut7It/XStatic-smart-table-1.4.13.2/XStatic_smart_table.egg-info/PKG-INFO
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**fix issues with fortify-headers and the way openssh handles the needed BSD compatible realpath(3).**

unconditionally use the provided realpath() as otherwise cross-builds would try to use musl realpath() which is posix compliant and not working to openssh expectations.

```
diff -ru openssh-7.2p2.orig/openbsd-compat/openbsd-compat.h openssh-7.2p2/openbsd-compat/openbsd-compat.h
--- openssh-7.2p2.orig/openbsd-compat/openbsd-compat.h 2016-03-09 20:04:48.000000000 +0200
@@ -68,17 +68,7 @@
     void *reallocarray(void *, size_t, size_t);
 #endif

-#if !defined(HAVE_REALPATH) || defined(BROKEN_REALPATH)
-*/
- *
- * glibc's FORTIFY_SOURCE can redefine this and prevent us picking up the
```
- * compat version.
- */

-# ifdef BROKEN_REALPATH
-# define realpath(x, y) _ssh_compat_realpath(x, y)
-# endif

- char *realpath(const char *path, char *resolved);
-#endif

+char *ssh_realpath(const char *path, char *resolved);

#ifndef HAVE_RRESVPORT_AF
int rresvport_af(int *alport, sa_family_t af);

diff -ru openssh-7.2p2.orig/openbsd-compat/realpath.c openssh-7.2p2/openbsd-compat/realpath.c
--- openssh-7.2p2.orig/openbsd-compat/realpath.c 2016-03-09 20:04:48.000000000 +0200
+++ openssh-7.2p2/openbsd-compat/realpath.c 2016-07-18 13:33:45.420721690 +0300
@@ -31,7 +31,7 @@

#include "includes.h"

-#if !defined(HAVE_REALPATH) || defined(BROKEN_REALPATH)
+#if 1

#include <sys/types.h>
#include <sys/param.h>
@@ -58,7 +58,7 @@
* in which case the path which caused trouble is left in (resolved).
 */

char *
-realpath(const char *path, char *resolved)
+ssh_realpath(const char *path, char *resolved)
{
    struct stat sb;
    char *p, *q, *s;

diff -ru openssh-7.2p2.orig/sftp-server.c openssh-7.2p2/sftp-server.c
--- openssh-7.2p2.orig/sftp-server.c 2016-03-09 20:04:48.000000000 +0200
+++ openssh-7.2p2/sftp-server.c 2016-07-18 13:34:29.131267241 +0300
@@ -1162,7 +1162,7 @@

    debug3("request %u: realpath", id);
    verbose("realpath \\
"%s\"", path);
-    if (realpath(path, resolvedname) == NULL) {
+    if (ssh_realpath(path, resolvedname) == NULL) {
        send_status(id, errno_to_portable(errno));
    } else {
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# Automatically generated by apkbuild-cpan, template 1
# Contributor: Francesco Colista <francesco.colista@gmail.com>
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pkgname=perl-software-license
_pkgreal=Software-License
pkgver=0.103004
pkgrel=0
pkgdesc="packages that provide templated software licenses"
url="http://search.cpan.org/dist/Software-License/"
arch="noarch"
license="GPL PerlArtistic"
cpandepends="perl-text-template perl-data-section perl-sub-install"
cpanmakedepends="" depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/R/RJ/RJBS/$_pkgreal-$pkgver.tar.gz"

_builddir="$sourcedir/$_pkgreal-$pkgver"
prepare() {
    cd "$_builddir"
    export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
    PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
    cd "$_builddir"
    export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
    make && make test
}

package() {
    cd "$_builddir"
    make DESTDIR="$pkgdir" install || return 1
    find "$pkgdir" \( -name perllocal.pod \-o -name .packlist \) -delete
}

md5sums="0c5fd53d93818566234578b27d667b35  Software-License-0.103004.tar.gz"

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 */
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=5
pkgdesc="A library for high-performance 2D graphics"
url="http://www.levien.com/libart/
arch="all"
license="LGPL"
depends=
makedepends=
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2"
_builddir=$srcdir/libart_lgpl-$pkgver

prepare() {
    cd "$_builddir"
    update_config_sub || return 1
}
build() {
    cd "$_builddir"
    ./configure
    --build=$CBUILD
    --host=$CHOST
    --prefix=/usr
    || return 1
    make || return 1
}
package() {
    cd "$_builddir"
    make DESTDIR="$pkgdir" install || return 1
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e76654309e001ae9bace727b5b4c8589405256a3c020  libart_lgpl-2.3.21.tar.bz2"

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# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Valery Kartel <valery.kartel@gmail.com>
pkgname=perl-bsd-resource
_pkgreal=BSD-Resource
pkgver=1.2909
pkgresl=2
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="http://search.cpan.org/dist/BSD-Resource/"
arch="all"
license="GPL PerlArtistic"
cpandepends=""
cpanmakedepends=""
depends="`
cpanmakedepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/J/JH/JHI/$_pkgreal-$pkgver.tar.gz"

_builddir="$_builddir"

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

build() {
    cd "$_builddir"
    export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
    make & & make test || return 1
}

package() {
    cd "$_builddir"
    make DESTDIR="$_builddir" install || return 1
    find "$_builddir" ! (-name perllocal.pod -o -name .packlist) -delete
}

md5sums="3c6dd2fa953088aa87e263f40818d012  BSD-Resource-1.2909.tar.gz"
sha256sums="c47d460e2bd00d8d049f6ff4a0f1f161957e289e8de45af5fc79e851e2e855e06  BSD-Resource-1.2909.tar.gz"
sha512sums="5f489eaac5089e82081b7cf51d62638750e443751b49415407354da96b17771819b5e6e85529faa41ddd85743363750157943c7f7700276ccce2bd40a429fa430  BSD-Resource-1.2909.tar.gz"

From: Juergen Gross <jgross@suse.com>
Date: Tue, 29 May 2018 09:53:24 +0200
Subject: [PATCH] x86/xpti: avoid copying L4 page table contents when possible

For mitigation of Meltdown the current L4 page table is copied to the
cpu local root page table each time a 64 bit pv guest is entered.

Copying can be avoided in cases where the guest L4 page table hasn't
been modified while running the hypervisor, e.g. when handling
interrupts or any hypercall not modifying the L4 page table or %cr3.
So add a per-cpu flag indicating whether the copying should be performed and set that flag only when loading a new %cr3 or modifying the L4 page table. This includes synchronization of the cpu local root page table with other cpus, so add a special synchronization flag for that case.

A simple performance check (compiling the hypervisor via "make -j 4") in dom0 with 4 vcpus shows a significant improvement:

- real time drops from 112 seconds to 103 seconds
- system time drops from 142 seconds to 131 seconds

Signed-off-by: Juergen Gross <jgross@suse.com>
Reviewed-by: Jan Beulich <jbeulich@suse.com>
---

```
xen/arch/x86/flushtlb.c           |  4 ++++
xen/arch/x86/mm.c                 | 36 +++++++++++++++++++++++-------------
xen/arch/x86/mm/shadow/multi.c    |  3 +++
xen/arch/x86/smp.c               |  2 +-x
xen/arch/x86/x86_64/asm-offsets.c |  1 +
xen/arch/x86/x86_64/entry.S      |  9 +++++--
xen/arch/x86/x86_64/traps.c      |  2 ++
xen/include/asm-x86/current.h    |  8 +++++++
xen/include/asm-x86/flushtlb.h   |  8 +++++++
9 files changed, 57 insertions(+), 16 deletions(-)
```

diff --git a/xen/arch/x86/flushtlb.c b/xen/arch/x86/flushtlb.c
index 8a7a76b8f..2729ba42e7 100644
--- a/xen/arch/x86/flushtlb.c
+++ b/xen/arch/x86/flushtlb.c
@@ -8,6 +8,7 @@
 */

```
#include <xen/sched.h>
#include <xen/smp.h>
#include <xen/softirq.h>
#include <asm/flushtlb.h>
#include <asm/page.h>
@@ -160,5 +161,8 @@
     return flags;
 }
diff --git a/xen/arch/x86/mm.c b/xen/arch/x86/mm.c
```
void write_ptbase(struct vcpu *v)
{
    get_cpu_info()->root_pgt_changed = true;
    write_cr3(v->arch.cr3);
}

void make_cr3(struct vcpu *v, unsigned long mfn)
{
    write_ptbase(v);
    write_cr3(v->arch.cr3);
}

long do_mmu_update(
    case PGT_l4_page_table:
        rc = mod_l4_entry(va, l4e_from_intpte(req.val), mfn, 
            cmd == MMU_PT_UPDATE_PRESERVE_AD, v);
        /*
        * No need to sync if all uses of the page can be accounted
        * to the page lock we hold, its pinned status, and uses on
        * this (v)CPU.
        */
        if ( !rc && !cpu_has_no_xpti)
        {
            bool local_in_use = false;
            if ( pagetable_get_pfn(curr->arch.guest_table) == mfn )
                local_in_use = true;
            get_cpu_info()->root_pgt_changed = true;
            if ( (page->u.inuse.type_info & PGT_count_mask) >
                    (1 + !!(page->u.inuse.type_info & PGT_pinned) + 
                        (pagetable_get_pfn(curr->arch.guest_table) == mfn) + 
                        (pagetable_get_pfn(curr->arch.guest_table_user) == 
                            mfn)) )
                sync_guest = true;
            if ( !rc && !cpu_has_no_xpti )
            {
                bool local_in_use = false;
                if ( pagetable_get_pfn(curr->arch.guest_table) == mfn )
                    local_in_use = true;
                get_cpu_info()->root_pgt_changed = true;
            }
            /*
            * No need to sync if all uses of the page can be
            * accounted to the page lock we hold, its pinned
            * status, and uses on this (v)CPU.
            */
            if ( (page->u.inuse.type_info & PGT_count_mask) >
                    (1 + !!(page->u.inuse.type_info & PGT_pinned) + 
                        (pagetable_get_pfn(curr->arch.guest_table_user) == 
                            mfn) + local_in_use) )
                sync_guest = true;
        }
break;
case PGT_writable_page:
    perfc_incr(writable_mmu_updates);
@@ -4177,7 +4187,7 @@ long do_mmu_update(

    cpumask_andnot(mask, pt_owner->domain_dirty_cpumask, cpumask_of(cpu));
    if ( !cpumask_empty(mask) )
-       flush_mask(mask, FLUSH_TLB_GLOBAL);
+       flush_mask(mask, FLUSH_TLB_GLOBAL | FLUSH_ROOT_PGTBL);
 }

    perfc_add(num_page_updates, i);

diff --git a/xen/arch/x86/mm/shadow/multi.c b/xen/arch/x86/mm/shadow/multi.c
index 93771d9e43..a53d3db56c 100644
--- a/xen/arch/x86/mm/shadow/multi.c
+++ b/xen/arch/x86/mm/shadow/multi.c
@@ -951,6 +951,8 @@ static int shadow_set_l4e(struct domain *d,

 /* Write the new entry */
     shadow_write_entries(sl4e, &new_sl4e, 1, sl4mfn);
+    flush_root_pgtbl_domain(d);
+    flags |= SHADOW_SET_CHANGED;

     if ( shadow_l4e_get_flags(old_sl4e) & _PAGE_PRESENT )
@@ -965,6 +967,7 @@ static int shadow_set_l4e(struct domain *d,
     } sh_put_ref(d, osl3mfn, paddr);
     }
+    return flags;
}

diff --git a/xen/arch/x86/smp.c b/xen/arch/x86/smp.c
index 70de53d4fe..e8b949da61 100644
--- a/xen/arch/x86/smp.c
+++ b/xen/arch/x86/smp.c
@@ -208,7 +208,7 @@ void invalidate_interrupt(struct cpu_user_regs *regs)

     ack_APIC_irq();
     perfc_incr(ipis);
-    flags &= ~(FLUSH_TLB | FLUSH_TLB_GLOBAL);
+    flags &= ~(FLUSH_TLB | FLUSH_TLB_GLOBAL | FLUSH_ROOT_PGTBL);
     flush_area_local(flush_va, flags);
     cpumask_clear_cpu(smp_processor_id(), &flush_cpumask);
 }

diff --git a/xen/arch/x86/x86_64/asm-offsets.c b/xen/arch/x86/x86_64/asm-offsets.c
index cc97d753df..a347083d23 100644
--- a/xen/arch/x86/x86_64/asm-offsets.c
+++ b/xen/arch/x86/x86_64/asm-offsets.c
@@ -144,6 +144,7 @@ void __dummy__(void)
 OFFSET(CPUINFO_shadow_spec_ctrl, struct cpu_info, shadow_spec_ctrl);
 OFFSET(CPUINFO_xen_spec_ctrl, struct cpu_info, xen_spec_ctrl);
 OFFSET(CPUINFO_spec_ctrl_flags, struct cpu_info, spec_ctrl_flags);
+ OFFSET(CPUINFO_root_pgt_changed, struct cpu_info, root_pgt_changed);
 DEFINE(CPUINFO_sizeof, sizeof(struct cpu_info));
 BLANK();

diff --git a/xen/arch/x86/x86_64/entry.S b/xen/arch/x86/x86_64/entry.S
index cdf5090ec7..67e9b49a5c 100644
--- a/xen/arch/x86/x86_64/entry.S
+++ b/xen/arch/x86/x86_64/entry.S
@@ -161,11 +161,15 @@ restore_all_guest:
 mov   VCPU_cr3(%rbx), %r9
 GET_STACK_END(dx)
 mov   STACK_CPUINFO_FIELD(pv_cr3)(%rdx), %rdi
+       test  %rdi, %rdi
+       jz    .Lrag_keep_cr3
+       mov   %rdi, %rax
+       cmpb  $0, STACK_CPUINFO_FIELD(root_pgt_changed)(%rdx)
+       je    .Lrag_copy_done
+       movb  $0, STACK_CPUINFO_FIELD(root_pgt_changed)(%rdx)
movabs $PADDR_MASK & PAGE_MASK, %rsi
movabs $DIRECTMAP_VIRT_START, %rcx
-mov   %rdi, %rax
-and   %rsi, %rdi
-and   %r9, %rsi
-add   %rcx, %rdi
-add   %rcx, %rsi
@@ -180,6 +184,7 @@ restore_all_guest:
 sub   $(ROOT_PAGETABLE_FIRST_XEN_SLOT -
 ROO
-        .Lrag_copy_done:
        mov   STACK_CPUINFO_FIELD(cr4)(%rdx), %rdi
        mov   %r9, STACK_CPUINFO_FIELD(xen_cr3)(%rdx)
        mov   %rdi, %rsi
diff --git a/xen/arch/x86/x86_64/traps.c b/xen/arch/x86/x86_64/traps.c
index 4f92a2e1ca..8bb2f1afe5 100644
--- a/xen/arch/x86/x86_64/traps.c
+++ b/xen/arch/x86/x86_64/traps.c
@@ -284,6 +284,8 @@ void toggle_guest_pt(struct vcpu *v)
 v->arch.flags ^= TF_kernel_mode;
 update_cr3(v);
+    get_cpu_info()->root_pgt_changed = true;
+
+    /* Don't flush user global mappings from the TLB. Don't tick TLB clock. */
+    asm volatile ( "mov %0, %%cr3" : : "r" (v->arch.cr3) : "memory" );

diff --git a/xen/include/asm-x86/current.h b/xen/include/asm-x86/current.h
index 7aff0e245..f0061bd497 100644
--- a/xen/include/asm-x86/current.h
+++ b/xen/include/asm-x86/current.h
@@ -59,6 +59,14 @@ struct cpu_info {
    uint8_t xen_spec_ctrl;
    uint8_t spec_ctrl_flags;

+    /* The following field controls copying of the L4 page table of 64-bit
+     * PV guests to the per-cpu root page table on entering the guest context.
+     * If set the L4 page table is being copied to the root page table and
+     * the field will be reset.
+     */
+    bool root_pgt_changed;
+
    unsigned long __pad;
    /* get_stack_bottom() must be 16-byte aligned */
};

diff --git a/xen/include/asm-x86/flushlb.h b/xen/include/asm-x86/flushlb.h
index 5f78b8be3d..ca2cd16721 100644
--- a/xen/include/asm-x86/flushlb.h
+++ b/xen/include/asm-x86/flushlb.h
@@ -101,6 +101,8 @@ void write_cr3(unsigned long cr3);
#define FLUSH_CACHE 0x400
/* VA for the flush has a valid mapping */
#define FLUSH_ROOT_PGTBL 0x2000
+/* Flush the per-cpu root page table */
+#define flush_root_pgtbl_domain(d)                                       
+{                                                                        
+    if ( !cpu_has_no_xpti && is_pv_domain(d) && !is_pv_32bit_domain(d) ) 
+        flush_mask((d)->domain_dirty_cpumask, FLUSH_ROOT_PGTBL);         
+}
+
static inline void flush_page_to_ram(unsigned long mfn) {}
static inline int invalidate_dcache_va_range(const void *p,
    unsigned long size)

--

2.15.2

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# Maintainer: Fabian Affolter <fabian@affolter-engineering.ch>
pkgname=py-flake8-copyright
_PKGNAME=flake8-copyright
pkgver=0.2.0
pkgrel=1
pkgdesc="Extension for flake8 which checks for copyrights"
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="flake8"
makedepends="python3-dev"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver

build() {
    cd "$builddir"
    python3 setup.py build || return 1
}

package() {
    cd "$builddir"
    python3 setup.py install --prefix=/usr --root="$pkgdir" || return 1
}

md5sums="c6348990c6d74933bf5d5f6a55a14bdf  flake8-copyright-0.2.0.tar.gz"
sha256sums="aeef26eb4d5223c9cd5b1d81e68175f6ef62b353bf36da68f8fde2f73  flake8-copyright-0.2.0.tar.gz"
sha512sums="bab1f6aed3a525ac3c7da12bf2ec338c204cc69b72d05cd39560e528aff5d586c3b1be9570f4a977a7e2417b586e543bba12abce256b2023c8c4993eeb90  flake8-copyright-0.2.0.tar.gz"
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---

```
--- a/main.c
+++ b/main.c
@@ -33,7 +33,7 @@

#include "extern.h"
#define AGREEMENT "https://letsencrypt.org" \
-  "/documents/LE-SA-v1.1.1-August-1-2016.pdf"
#define SSL_DIR "/etc/ssl/acme"
#define SSL_PRIV_DIR "/etc/ssl/acme/private"
#define ETC_DIR "/etc/acme"
```

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1.20201114033610.el8ost
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1.1022 ipmi-tool 1.8.18 14.el8

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1.1023 python3-xstatic-jquery-ui 1.12.0.1
5.el8ost

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Metadata-Version: 1.0
Name: XStatic-jquery-ui
Version: 1.12.0.1
Summary: jquery-ui 1.12.0 (XStatic packaging standard)
Home-page: http://jqueryui.com/
Author: Thomas Waldmann
Author-email: tw@waldmann-edv.de
License: (same as jquery-ui)
Description: XStatic-jquery-ui

----------

jquery-ui javascript library packaged for setuptools (easy_install) / pip.

This package is intended to be used by **any** project that needs these files.

It intentionally does **not** provide any extra code except some metadata
**nor** has any extra requirements. You MAY use some minimal support code from
the XStatic base package, if you like.

You can find more info about the xstatic packaging way in the package `XStatic`.

Keywords: jquery_ui xstatic
Platform: any

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1.1028 perl-file-path 2.15 2.el8

1.1028.1 Available under license:

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
  Erno    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
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Current maintainers are Richard Elberger (riche at cpan dot org) and
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Found in path(s):
* /opt/cola/permits/1162151506_1620794031.43/0/perl-File-Path-2.15-2.el8-1.src.rpm-cosi-expand-archive-
  jhglJB1X/File-Path-2.15.tar.gz-cosi-expand-archive-9vhTnDCL/File-Path-2.15/README
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Found in path(s):
* /opt/cola/permits/1162151506_1620794031.43/0/perl-File-Path-2.15-2.el8-1.src.rpm-cosi-expand-archive-jhglJB1X/perl-File-Path.spec
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---
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'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: File-Path
no_index:
directory:
  - t
  - inc
requires:
  Cwd: '0'
  Exporter: '0'
  File::Basename: '0'
  File::Spec: '0'
resources:
  repository: https://github.com/jkeenan/File-Path.git
  version: '2.15'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
* /opt/cola/permits/1162151506_1620794031.43/0/perl-File-Path-2.15-2.el8-1.src.rpm-cosi-expand-archive-jhglJB1X/File-Path-2.15.tar.gz-cosi-expand-archive-9vhTnDCL/File-Path-2.15/META.yml
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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, });

$removed_count = remove_tree('foo/bar/baz', '/zug/zwang', { verbose => 1, error => \my $err_list, safe => 1, });

# legacy (interface promoted before v2.00)
@created = mkpath('/foo/bar/baz');
@created = mkpath('/foo/bar/baz', 1, 0711);
@created = mkpath(['/foo/bar/baz', 'blurfl/quux'], 1, 0711);
$removed_count = rmtree('foo/bar/baz', 1, 1);
$removed_count = rmtree(['foo/bar/baz', 'blurfl/quux'], 1, 1);

# legacy (interface promoted before v2.06)
@created = mkpath('foo/bar/baz', '/zug/zwang', { verbose => 1, mode => 0711 });
$removed_count = rmtree('foo/bar/baz', '/zug/zwang', { verbose => 1, mode => 0711 });

=head1 DESCRIPTION

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:

=over

=item make_path( $dir1, $dir2, .... )
The `make_path` function creates the given directories if they don't exist before, much like the Unix command `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:

```perl
=over
=item mode => $num

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

C<mask> is recognised as an alias for this parameter.

=item chmod => $num

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

=item verbose => $bool

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

=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.

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 C<eval> block.
=item owner => $owner

=item user => $owner

=item uid => $owner

If present, will cause any created directory to be owned by 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.

C<user> and C<uid> are aliases of C<owner>.

=item 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 `rm -rf` or the Windows commands `rmdir /s` and `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.)

`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 `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 `safe` element to a true value.

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

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 `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 `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 $_" 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.

rmtree ($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: $message\n";
        }
        else {
            my ($file, $message) = %$diag;
            my ($file, $message) = %$diag;
            if ($file eq "$file") {
                print "general error: $message\n";
            }
            else {
                print "$file: $message\n";
            }
        }
    }
}
print "problem unlinking $file: $message\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.ntpp.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:

=over 4
=item * L<http://cve.circl.lu/cve/CVE-2004-0452>
=item * L<http://cve.circl.lu/cve/CVE-2005-0448>
=back

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.

=over 4

=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.

=item No such file or directory

On Windows, if C<::make_path> gives you this warning, it may mean that you have exceeded your filesystem's maximum path length.

=item cannot fetch initial working directory: [errmsg]

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.

=item cannot stat initial working directory: [errmsg]

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.

=item cannot chdir to [dir]: [errmsg]

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.

=item directory [dir] changed before chdir, expected dev=[n] ino=[n], actual dev=[n] ino=[n], aborting. (FATAL)

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.
=item cannot make directory [dir] read+writeable: [errmsg]

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.

=item cannot read [dir]: [errmsg]

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.

=item cannot reset chmod [dir]: [errmsg]

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, C<remove_tree> was unable to restore its permissions from a permissive state back to a possibly more restrictive setting. (Permissions given in octal).

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

C<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.

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

C<remove_tree> failed to remove a file. Probably a permissions issue.

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

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

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

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

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

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

=head1 SEE ALSO

=over

=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 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 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.

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1.1029 go 1.12.7
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1.1032 kubernetes-kube-state-metrics 1.5.0

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procfs provides functions to retrieve system, kernel and process
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A. HISTORY OF THE SOFTWARE

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

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

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

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goproperties - properties file decoder for Go

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject

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

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```

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import (
  "strings"
)

// LicenseFilePrefix is a list of filename prefixes that indicate it
// might contain a software license
var LicenseFilePrefix = []string{
  "licence", // UK spelling
"license", // US spelling
"copying",
"unlicense",
"copyright",
"copyleft",
"authors",
"contributors",
}

// LegalFileSubstring are substrings that indicate the file is likely
// to contain some type of legal declaration. "legal" is often used
// that it might moved to LicenseFilePrefix
var LegalFileSubstring = []string{
"legal",
"notice",
"disclaimer",
"patent",
"third-party",
"thirdparty",
}

// IsLicenseFile returns true if the filename might be contain a
// software license
func IsLicenseFile(filename string) bool {
    lowerfile := strings.ToLower(filename)
    for _, prefix := range LicenseFilePrefix {
        if strings.HasPrefix(lowerfile, prefix) {
            return true
        }
    }
    return false
}

// IsLegalFile returns true if the file is likely to contain some type
// of legal declaration or licensing information
func IsLegalFile(filename string) bool {
    lowerfile := strings.ToLower(filename)
    for _, prefix := range LicenseFilePrefix {
        if strings.HasPrefix(lowerfile, prefix) {
            return true
        }
    }
    for _, substring := range LegalFileSubstring {
        if strings.Contains(lowerfile, substring) {
            return true
        }
    }
    return false
}
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Protocol Buffers for Go with Gadgets

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package simulator

import (
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name:      "Evaluation Mode",
    Properties: []types.KeyAnyValue{
                  {Key: "feature", Value: types.KeyValue{


Key: "serialuri:2",
Value: "Remote virtual Serial Port Concentrator",
},
},
{
Key: "feature",
Value: types.KeyValue{
  Key: "dvs",
  Value: "vSphere Distributed Switch",
},
},
}

type LicenseManager struct {
  mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
  m := &LicenseManager{
    Self: ref
  }
  m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

  if Map.IsVPX() {
    am := Map.Put(&LicenseAssignmentManager{}).Reference()
    m.LicenseAssignmentManager = &am
  }

  return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
  body := &methods.AddLicenseBody{
    Res: &types.AddLicenseResponse{},
  }

  for _, license := range m.Licenses {
    if license.LicenseKey == req.LicenseKey {
      body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
      return body
    }
  }

  m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
    LicenseKey: req.LicenseKey,
    Labels:   req.Labels,
  })

return body
}
func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{
    }
    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)
            return body
        }
    }
    return body
}

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{
    }
    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }
            if Map.Get(id) == nil {
                return body
            }
        }
    }
    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
        {EntityId: req.EntityId, AssignedLicense: EvalLicense,}
func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense
    info.LicenseKey = key
    info.Labels = labels
    return info
}

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Feb, 2010

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

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PACKAGE

package goautoneg
import "bitbucket.org/ww/goautoneg"

HTTP Content-Type Autonegotiation.

The functions in this package implement the behaviour specified in
http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html

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FUNCTIONS

func Negotiate(header string, alternatives []string) (content_type string)
Negotiate the most appropriate content_type given the accept header
and a list of alternatives.
func ParseAccept(header string) (accept []Accept)
Parse an Accept Header string returning a sorted list of clauses

TYPES

type Accept struct {
    Type, SubType string
    Q float32
    Params map[string]string
}
Structure to represent a clause in an HTTP Accept Header

SUBDIRECTORIES

.hg

= vendor/bitbucket.org/ww/goautoneg/README.txt a33eda65f1be658f358e1d690c6a93d4
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package spec

// License information for the exposed API.

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

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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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1.1042 perl-data-dumper 2.167 399.el8
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No license file was found, but licenses were detected in source scan.

From 9f38b6c605086a67f0d92591f8e8de99bc1d9164 Mon Sep 17 00:00:00 2001
From: =?UTF-8?q?Petr=P=20P=C3=ADsa=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 @@
package Data::Dumper;

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!

#S| = 1;

use 5.006_001;
require Exporter;
-require overload;

-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 {
-    carp "Value of ref must be defined; ignoring undefined item \$$k";
+    Carp::carp("Value of ref must be defined; ignoring undefined item \$$k");
 }
 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 {
@@ -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
        || (! $IS_ASCII && $] lt 5.021_010);
@@ -439,7 +437,7 @@ sub _dump {
     if (ref($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);
-   $sub =~ s/\n/$pad/gse;
+   $sub =~ s/\n/$pad/gs;
   $out   .=  $sub;
   }
 else {
-     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
   @ -1211.9 +1210.10 @@ $Data::Dumper::Deparse I<or> $I<OBJ>::Deparse($<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.

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

---
+++ b/Dumper.xs
@@ -63,6 +63,7 @@ typedef struct {
     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)
     int use_sparse_seen_hash;
     int trailingcomma;
+    int deparse;
 } Style;

        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 : UTF8SKIP(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;
+
+ 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;
+

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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
 */

ival = SvRV(val);
realtype = SvTYPE(ival);
#ifdef DD_USE_OLD_ID_FORMAT
    idlen = my_snprintf(id, sizeof(id), "0x%"UVxf, PTR2UV(ival));
#else
    id_buffer = PTR2UV(ival);
idlen = sizeof(id_buffer);
#endif

#ifdef DD_USE_OLD_ID_FORMAT
    warn("WARNING(Freezer method call failed): "%SVf", ERRSV);
#else
    warn("WARNING(Freezer method call failed): "% SVf, ERRSV);
#endif
    PUTBACK; FREETMPS; LEAVE;
}
@@ -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 +934,6 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV *seenhv,
      SV *sname;
      HE *entry = NULL;
      char *key;
-  @@ -886,7 +934,6 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV *seenhv,
-    SV *sname;
-    HE *entry = NULL;
-    char *key;
    - STRLEN klen;
    SV *hval;
    AV *keys = NULL;
    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 {
        @ @ -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 *seenhv,
    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_catpvs(retval, "sub \"DUMMY\" ");
+   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 *
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
  
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id_buffer = PTR2UV(val);
iden = 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));
+              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. */
            }
        }
    }

    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;
        }
    } else {
        if ((svp = hv_fetchs(hv, "seen", FALSE)) && SvROK(*svp)) {
            style.use_sparse_seen_hash = (SvOK(*svp) && SvIV(*svp) != 0);
        }
    }

    if ((svp = hv_fetch(hv, "noseen", 6, FALSE))) {
        if ((svp = hv_fetchs(hv, "noseen", FALSE)) && SvROK(*svp)) {
            style.use_sparse_seen_hash = (SvOK(*svp) && SvIV(*svp) != 0);
        }
    } else {
        if ((svp = hv_fetchs(hv, "noseen", FALSE)) && SvROK(*svp)) {
            style.use_sparse_seen_hash = (SvOK(*svp) && SvIV(*svp) != 0);
        }
    }

    if ((svp = hv_fetch(hv, "todump", 6, FALSE)) && SvROK(*svp)) {
        todumpav = (AV*)SvRV(*svp);
    } else {
        if ((svp = hv_fetchs(hv, "todump", FALSE)) && SvROK(*svp)) {
            todumpav = (AV*)SvRV(*svp);
        }
    }

    if ((svp = hv_fetch(hv, "names", 5, FALSE)) && SvROK(*svp)) {
        namesav = (AV*)SvRV(*svp);
    } else {
        if ((svp = hv_fetch(hv, "names", FALSE)) && SvROK(*svp)) {
            namesav = (AV*)SvRV(*svp);
        }
    }

    if ((svp = hv_fetch(hv, "indent", 6, FALSE))) {
        if ((svp = hv_fetchs(hv, "indent", FALSE)) && SvROK(*svp)) {
            style.indent = SvIV(*svp);
        }
    } else {
        if ((svp = hv_fetchs(hv, "indent", FALSE)) && SvROK(*svp)) {
            style.indent = SvIV(*svp);
        }
    }

    if ((svp = hv_fetch(hv, "purity", 6, FALSE))) {
        if ((svp = hv_fetchs(hv, "purity", FALSE)) && SvROK(*svp)) {
            style.purity = SvIV(*svp);
        }
    } else {
        if ((svp = hv_fetchs(hv, "purity", FALSE)) && SvROK(*svp)) {
            style.purity = SvIV(*svp);
        }
    }

    if ((svp = hv_fetch(hv, "terse", 5, FALSE))) {
        if ((svp = hv_fetchs(hv, "terse", FALSE)) && SvROK(*svp)) {
            terse = SvTRUE(*svp);
        }
    } else {
        if ((svp = hv_fetchs(hv, "terse", FALSE)) && SvROK(*svp)) {
            terse = SvTRUE(*svp);
        }
    }

    if ((svp = hv_fetch(hv, "useqq", 5, FALSE))) {
        if ((svp = hv_fetchs(hv, "useqq", FALSE)) && SvROK(*svp)) {
            style.useqq = SvTRUE(*svp);
        }
    } else {
        if ((svp = hv_fetchs(hv, "useqq", FALSE)) && SvROK(*svp)) {
            style.useqq = SvTRUE(*svp);
        }
    }

    if ((svp = hv_fetch(hv, "pad", 3, FALSE))) {
        if ((svp = hv_fetchs(hv, "pad", FALSE)) && SvROK(*svp)) {
            style.pad = *svp;
        }
    } else {
        if ((svp = hv_fetchs(hv, "pad", FALSE)) && SvROK(*svp)) {
            style.pad = *svp;
        }
    }
-if ((svp = hv_fetch(hv, "xpad", 4, FALSE)))
+if ((svp = hv_fetchs(hv, "xpad", FALSE)))
    style.xpad = *svp;
-if ((svp = hv_fetch(hv, "apad", 4, FALSE)))
+if ((svp = hv_fetchs(hv, "apad", FALSE)))
    apad = *svp;
-if ((svp = hv_fetch(hv, "sep", 3, FALSE)))
+if ((svp = hv_fetchs(hv, "sep", FALSE)))
    style.sep = *svp;
-if ((svp = hv_fetch(hv, "pair", 4, FALSE)))
+if ((svp = hv_fetchs(hv, "pair", FALSE)))
    style.pair = *svp;
-if ((svp = hv_fetch(hv, "varname", 7, FALSE)))
+if ((svp = hv_fetchs(hv, "varname", FALSE)))
    varname = *svp;
-if ((svp = hv_fetch(hv, "freezer", 7, FALSE)))
+if ((svp = hv_fetchs(hv, "freezer", FALSE)))
    style.freezer = *svp;
-if ((svp = hv_fetch(hv, "toaster", 7, FALSE)))
+if ((svp = hv_fetchs(hv, "toaster", FALSE)))
    style.toaster = *svp;
-if ((svp = hv_fetch(hv, "deepcopy", 8, FALSE)))
+if ((svp = hv_fetchs(hv, "deepcopy", FALSE)))
    style.deepcopy = SvTRUE(*svp);
-if ((svp = hv_fetch(hv, "quotekeys", 9, FALSE)))
+if ((svp = hv_fetchs(hv, "quotekeys", FALSE)))
    style.quotekeys = SvTRUE(*svp);
-                if ((svp = hv_fetch(hv, "trailingcomma", 13, FALSE)))
+                if ((svp = hv_fetchs(hv, "trailingcomma", FALSE)))
                    style.trailingcomma = SvTRUE(*svp);
-                if ((svp = hv_fetch(hv, "bless", 5, FALSE)))
+                if ((svp = hv_fetchs(hv, "deparse", 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);
 +    SvPVCLEAR(valstr);
 if (gimme == G_ARRAY) {
 XPUSHs(sv_2mortal(retval));
 if (i < imax)/* not the last time thro ? */
--- 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;

 { # https://rt.perl.org/Ticket/Display.html?id=128524
   $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" } } };
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");
 }

.Skip:

{
 skip "No XS available", 1 if !defined &Data::Dumper::Dumpxs;
 sub rt130487_args { 0 + @_ }
 my $code = sub {};
 local $Data::Dumper::Useperl = 0;
 local $Data::Dumper::Deparse = 1;
 my $got = rt130487_args( Dumper($code) );
 is($got, 1, "stack management in XS deparse works, rt 130487");
}

# 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 strict;
 use Data::Dumper;
 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\nbaz", quux => sub { "fleem" } };  
@@ -46,11 +48,11 @@ note("\$Data::Dumper::Deparse and Deparse()"奇);  
    $dumps{\'objzero\'} = \_dumptostr($obj);  
    is($dumps{\'noprev\'}, $dumps{\'dddzero\'},  
    - "No previous setting and \$Data::Dumper::Deparse = 0 are equivalent");  
    + "No previous setting and \$Data::Dumper::Deparse = 0 are equivalent (useperl=$useperl)"奇);  
    is($dumps{\'noprev\'}, $dumps{\'objempty\'},  
    - "No previous setting and Deparse() are equivalent");  
    + "No previous setting and Deparse() are equivalent (useperl=$useperl)"奇);  
    is($dumps{\'noprev\'}, $dumps{\'objzero\'},  
    - "No previous setting and Deparse(0) are equivalent");  
    + "No previous setting and Deparse(0) are equivalent (useperl=$useperl)"奇);  
    local \$Data::Dumper::Deparse = 1;  
    $obj = Data::Dumper->new( [ $struct ] );  
    @@@ -62,19 +64,19 @@ note("\$Data::Dumper::Deparse and Deparse()"奇);  
    $dumps{\'objone\'} = \_dumptostr($obj);  
    is($dumps{\'dddtrue\'}, $dumps{\'objone\'},  
    - "\$Data::Dumper::Deparse = 1 and Deparse(1) are equivalent");  
    + "\$Data::Dumper::Deparse = 1 and Deparse(1) are equivalent (useperl=$useperl)"奇);  
    isnt($dumps{\'dddzero\'}, $dumps{\'dddtrue\'},  
    - "\$Data::Dumper::Deparse = 0 differs from \$Data::Dumper::Deparse = 1"奇);  
    + "\$Data::Dumper::Deparse = 0 differs from \$Data::Dumper::Deparse = 1 (useperl=$useperl)"奇);  
    like($dumps{\'dddzero\'},  
    qr/\w*quux.*?:sub.*?:DUMMY/s,  
    - "\$Data::Dumper::Deparse = 0 reports DUMMY instead of deparsing coderef"奇);  
    + "\$Data::Dumper::Deparse = 0 reports DUMMY instead of deparsing coderef (useperl=$useperl)"奇);  
    unlike($dumps{\'dddtrue\'},  
    qr/\w*quux.*?:sub.*?:DUMMY/s,  
    - "\$Data::Dumper::Deparse = 1 does not report DUMMY"奇);  
    + "\$Data::Dumper::Deparse = 1 does not report DUMMY (useperl=$useperl)"奇);  
    like($dumps{\'dddtrue\'},  
    qr/\w*quux.*?:use\sstrict.*?:fleem/s,  
    - "\$Data::Dumper::Deparse = 1 does not report DUMMY"奇);  
    + "\$Data::Dumper::Deparse = 1 does not report DUMMY (useperl=$useperl)"奇);  
}  

--  
2.9.3  

Found in path(s):  
* /opt/cola/permits/1162151398_1620790702.14/0/perl-Data-Dumper-2.167-399.el8-1.src.rpm-cosi-expand-archive-xwyyLK00/Data-Dumper-2.161-Upgrade-to-2.167.patch
No license file was found, but licenses were detected in source scan.

=head1 NAME

Data::Dumper - stringified perl data structures, suitable for both printing and C<eval>

=head1 SYNOPSIS

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
$d = Data::Dumper->new([$foo, $bar], [qw(foo *ary)]);
... print $d->Dump;
... $d->Purity(1)->Terse(1)->Deepcopy(1);
  eval $d->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<$Data::Dumper::Terse>
The default output of self-referential structures can be `eval`ed, but the nested references to `$VAR[<n>]` will be undefined, since a recursive structure cannot be constructed using one Perl statement. You should set the `Purity` flag to 1 to get additional statements that will correctly fill in these references. Moreover, if `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 `*`, 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 `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 `Indent` flag. See L<Configuration Variables or Methods> below for details.

=head2 Methods

=over 4

=item `PACKAGE->new([ARRAYREF], [ARRAYREF])`

Returns a newly created `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 `$` sign, and must be comprised of alphanumeric characters. You can begin a name with a `*` to specify that the dereferenced type must be dumped instead of the reference itself, for ARRAY and HASH references.

The prefix specified by `$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 `OBJECT->Dump` or `PACKAGE->Dump([ARRAYREF], [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 I<$OBJ>->Reset

Cleans the internal table of "seen" references and returns the object itself.

=back

=head2 Functions
Returns the stringified form of the values in the list, subject to the
configuration options below. The values will be named \$VAR\n in the
output, where \$n\ is a numeric suffix. Will return a list of strings
in a list context.

=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
\local\ized 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 \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.

=head2 Indent

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.
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 C<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.

=item *

$Data::Dumper::Terse I<or> I<$OBJ>->Terse(I<[NEWVAL]>)

When set, Data::Dumper will emit single, non-self-referential values as atoms/terms rather than statements. This means that the C<$VAR> names will be avoided where possible, but be advised that such output may not always be parseable by C<eval>.
$Data::Dumper::Freezer  I<or>  $I<OBJ>-Freezer(I<[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>  $I<OBJ>-Toaster(I<[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 C<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>  $I<OBJ>-Deepcopy(I<[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>  $I<OBJ>-Quotekeys(I<[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< \rangle >.

=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::Maxrecursion  I<or>  $I<OBJ>-Maxrecursion(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.

=item *

$Data::Dumper::Useperl  I<or>  $I<OBJ>-Useperl(I<\[NEWVAL]\>)

Can be set to a boolean value which controls whether the pure Perl implementation of C<Data::Dumper> is used. The C<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 *

$Data::Dumper::Sortkeys  $OBJ->Sortkeys([NEWVAL])

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 *

$Data::Dumper::Deparse  $OBJ->Deparse([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, 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 *

$Data::Dumper::Sparseseen  $OBJ->Sparseseen([NEWVAL])

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\vz'], $_[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\');
$c = \@c;
$b = \{};
$a = [1, $b, $c];
$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

$data::dumper::deepcopy = 1;       # avoid cross-refs
print Data::Dumper->Dump([$b, $a], [qw(*b a)]);

$data::dumper::purity = 0;        # avoid cross-refs
print Data::Dumper->Dump([$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)]);

$Data::Dumper::Maxdepth = 3;  # no deeper than 3 refs down
print Data::Dumper->Dump([$f], [qw(f)]);

#######
# object-oriented usage
#######

$d = Data::Dumper->new([$a,$b], [qw(a b)]);
$d->Seen({ '*c' => $c });  # stash a ref without printing it
$d->Indent(3);
print $d->Dump;
$d->Reset->Purity(0);  # empty the seen cache
print join "----
", $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<perlrun/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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This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 VERSION

Version 2.161  (July 11 2016)

=head1 SEE ALSO
perl(1)

=cut

Found in path(s):
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.

License: GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1162151398_1620790702.14/0/perl-Data-Dumper-2.167-399.el8-1.src.rpm-cosi-expand-archive-xwyIlKa0/perl-Data-Dumper.spec
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=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 \texttt{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 \texttt{ppport.h} if you intend to be backward compatible only down to a certain Perl version.

\texttt{--cplusplus}

Usually, \texttt{ppport.h} will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs \texttt{ppport.h} to leave C++ comments untouched.

\texttt{--quiet}

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

\texttt{--nodiag}

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

\texttt{--nohints}

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

\texttt{--nochanges}

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

\texttt{--nofilter}

Don't filter the list of input files. By default, files not looking like source code (i.e. not \texttt{*.xs, *.c, *.cc, *.cpp} or \texttt{*.h}) are skipped.

\texttt{--strip}

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

The stripped \texttt{ppport.h} will have a \texttt{--unstrip} option that allows you to undo the stripping, but only if an appropriate \texttt{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>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 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>
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<td>grok_hex()</td>
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<td>NEED_grok_hex_GLOBAL</td>
</tr>
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<td>NEED_my_strlcpy_GLOBAL</td>
</tr>
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<td>newCONSTSUB()</td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUB_GLOBAL</td>
</tr>
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<td>NEED_newRV_noinc</td>
<td>NEED_newRV_noinc_GLOBAL</td>
</tr>
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<td>newSV_type()</td>
<td>NEED_newSV_type</td>
<td>NEED_newSV_type_GLOBAL</td>
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<td>NEED_newSVpvn_flags</td>
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</tr>
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<td>newSVpvn_share()</td>
<td>NEED_newSVpvn_share</td>
<td>NEED_newSVpvn_share_GLOBAL</td>
</tr>
<tr>
<td>pv_display()</td>
<td>NEED_pv_display</td>
<td>NEED_pv_display_GLOBAL</td>
</tr>
<tr>
<td>pv_escape()</td>
<td>NEED_pv_escape</td>
<td>NEED_pv_escape_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 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.

=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 = 3.31;
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.
";
}

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" if $r != 5;
die "Invalid version number: $opt{compat-version}" if $v >= 1000 || $s >= 1000;
$opt{compat-version} = sprintf "%.%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(ASCII_TO_NEED|5.007001|AvFILL|5.004050|AvFILL||
   BhkDISABLE|5.021008
   BhkENABLE|5.021008
   BhkENTRY_set|5.021008
   BhkENTRY||
   BhkFLAGS||
   CALL_BLOCK_HOOKS||
   CLASS|||
   CPERLscope|5.005000|CopFILEAV|5.006000
   CopFILEGV_set|5.006000|CopFILEGV|5.006000
   CopFILEGV_set|5.006000|CopFILEGV|5.006000
   CopFILEGV_set|5.006000|CopFILEGV|5.006000
   CopFILE_set|5.006000|CopFILE_set|5.006000
   CopFILE_set|5.006000|CopFILE_set|5.006000
   CopSTASHPV_set|5.006000
   CopSTASHPV|5.006000
   CopSTASH_eq|5.006000
   CopSTASH_set|5.006000
   CopSTASH|5.006000
   CopyD|5.009002
   Copy|||
   CvPADLIST|5.008001
   CvSTASH|||
   CvWEAKOUTSIDE|||
   DEFSV_set|5.010001
   DEFSV|5.004050|
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|||
MULTICALL|5.021008|
MUTABLE_PTR|5.010001||p
MUTABLE_SV|5.010001||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|||
Nullsv|||
OP_CLASS|5.013007|
OP_DESC|5.007003|
OP_NAME|5.007003|
OP_TYPE_IS_OR_WAS|5.019010|
OP_TYPE_IS|5.019007|
ORIGMARK|||
OpHAS_SIBLING|5.021007|
OpSIBLING_set|5.021007|
OpSIBLING|5.021007|
PAD_BASE_SV|||
PAD_CLONE_VARS|||
PAD_COMPNAME_FLAGS|||
PAD_COMPNAME_GEN_set|||
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PL_ppeepp|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_statecache|5.005000|p
PL_stdingv|5.004050|p
PL_sv_arenaroot|5.004050|p
PL_sv_no|5.004050|pn
PL_sv_undef|5.004050|pn
PL_sv_yes|5.004050|pn
PL_tainted|5.004050|p
PL_tainting|5.004050|p
PL_tokenbuf|5.021008|p
POP_MULTICALL|5.021008|
POPi|||n
POPi|||n
POPl|||n
POPl|||n
POPI|5.007001|n
POPpx|5.005030|n
POPl|||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|
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Padlist NAMES ARRAY|5.021008|
Slab_Free
Slab_to_ro
Slab_to_rw
StructCopy
SvCUR_set
SvCUR
SvEND
SvGAMAGIC[5.006001]
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SvGROW
SvIOK_UV[5.006000]
SvIOK_notUV[5.006000]
SvIOK_off
SvIOK_only_UV[5.006000]
SvIOK_only
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SvIOK
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SvIsCOW[5.008003]
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SvMAGIC_set[5.009003]\n
SvNIOK_off
SvNIOKp
SvNIOK
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SvNOK_on
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SvNVX
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SvNVx
SvNV
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SvOOK_offset[5.011000]
SvOOK
SvPOK_off
SvPOK_only_UTF8[5.006000]
SvPOK_only

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SvPOK_on
SvPOKp
SvPOK
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SvPVX_mutable[5.009003]p
SvPVX
SvPVX_const[5.009003]p
SvPV_flags_const_nolen[5.009003]p
SvPV_flags_const[5.009003]p
SvPV_flags_mutable[5.009003]p
SvPV_force_flags_mutable[5.009003]p
SvPV_force_flags_nolen[5.009003]p
SvPV_force_flags[5.007002]p
SvPV_force_mutable[5.009003]p
SvPV_force_nolen[5.009003]p
SvPV_force_nomg_nolen[5.009003]p
SvPV_force_nomg[5.007002]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
SvPV_nomg_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]p
SvPVbyte_nolen[5.006000]p
SvPVbyte[x_force][5.006000]p
SvPVbyte[x][5.006000]p
SvPVbyte[5.006000]p
SvPVutf8_force[5.006000]p
SvPVutf8_nolen[5.006000]p
SvPVutf8x_force[5.006000]p
SvPVutf8x[5.006000]p
SvPVutf8[5.006000]p
SvPVx
SvPV
SvREFCNT_dec_NN[5.017007]p
SvREFCNT_dec
SvREFCNT_inc_NN[5.009004]p
SvREFCNT_inc
SvREFCNT_inc_simple_NN[5.009004]p
SvREFCNT_inc_simple
SvREFCNT_inc_simple_void_NN[5.009004]p
SvREFCNT_inc_simple_void
SvREFCNT_inc_simple[5.009004]p
SvREFCNT_inc_void_NN[5.009004]p
SvREFCNT_inc_void
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WARN_VOID[5.006000]p
WIDEST_UTYPE[5.015004]p
XCPT_CATCH[5.009002]p
XCPT_RETHROW[5.009002]p
XCPT_TRY_END[5.009002]p
XCPT_TRY_START[5.009002]p
XPUSHi||
XPUSHmortal[5.009002]p
XPUSHn||
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XPUSHs||
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XSRETURN_IV||
XSRETURN_NO||
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XSRETURN_PV||
XSRETURN_UNDEF||
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XSRETURN_YES||
XSRETURN|||p
XST_mIV||
XST_mNO||
XST_mNV||
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XST_mUV[5.008001]p
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_append_range_to_invlist||
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_is_uni_perl_idcont||
_is_uni_perl_idstart||
_is_utf8_FOO||
_is_utf8_char_slow||
_is_utf8_idcont||
_is_utf8_idstart||
_is_utf8_mark||
_is_utf8_perl_idcont||
_is_utf8_perl_idstart||
_is_utf8_xidcont||
_is_utf8_xidstart||
_load_PL_utf8_foldclosures||
_make_exactf_invlist||
_new_invlist_C_array||
_new_invlist||
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_setup_canned_invlist||
_swash_inversion_hash||
_swash_to_invlist||
_to_fold_latin1||
_to_uni_fold_flags||
_to_upper_title_latin1||
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_to_utf8_lower_flags||
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get_num
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get_ppaddr
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get_sv
get_vtbl
getcwd_sv
getenv_len
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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
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gv_AVadd
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hv_delete
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if (exists $opt{'list-unsupported'}) {
  my $f;
  for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $API{$f}{todo};
    print "$f ."x(40-length($f)), "", format_version($API{$f}{todo}), "\n" ;
  }
  exit 0;
}

# Scan for possible replacement candidates

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

sub find_api
{
  my $code = shift;
  $code =~ s{
    / (?: \*[^\*]*\*+(?:[^$ccs]\[^*]*\*+)* / | /\[^
    |"[^"\\]*(?:\\\."[^"\\]*)*"
  | "[^\\]"*?(?:\\.\\"[^\\]*)*" )}{}egsx;
  grep { exists $API{$_} } $code =~ /\w+/mg;
  ...

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

  $hint = [$_1, split /,?s+/, $_2] if m{ ^s*$rcce\s+(hint|Warning):\s+\$w+(?;?s+\$w+)\$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*$s*}
$replace{$2} = $1 if $replace and m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+)};
$replace{$2} = $1 if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+).*$rccs\s+Replace\s+$rcce};
$replace{$1} = $2 if m{^\s*$rccs\s+Replace (\w+) with (\w+)\s+$rcce\s*$};
if (m{^\s*$rccs\s+(\w+(\s*,\s*\w+)*)\s+depends\s+on\s+(\w+(\s*,\s*\w+)*)\s+$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";
$info++;
}
if ($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 "\n$hints{$f}" if exists $hints{$f};
print "\nWARNING:\n$warnings{$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'}'.";
print "\n";
exit 0;

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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);
# 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;

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$file{ccom} = \@ccom;
$file{code} = \$c;
$file{has_inc_ppport} = $c =~ /^\$/HS*\$HS*include\[^\r\n]+\b\bQ\$ppport\b\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}) {
            $file{uses}{$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{$_}}) {
        push \@{$global{$_}[$func]}, $filename;
    }
}

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$files{$filename} = \%file;
}

# Globally resolve NEED_'s
my $needs;
for $need (keys %{$global{needs}}) {
  if (@{$global{needs}{$need}} > 1) {
    my @targets = @$_ {needed_global} {$need}, @targets;
    @targets = @t if @t;
    @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 (SAPI{$func} {varargs}) {
      unless (SAPI{$func} {nothxarg}) {
        my $changes = ($c =~ s{\b(Perl_$func\$\(\$\)\s*(!aTHX_\?)\(\d\)*|\^\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_\?)\(\d\)*|\^\s\$\}{' Perl_$func' . $1 }g);
  }
}
for $func (sort keys %{$file{uses_replace}})) {  
  warning("Uses $func instead of $replace{$func}");  
  $file{changes} += ($c =~ s/$func/$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'";
        $pp = quot-quote("\#include "$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 $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$s) " : "");
info("Analysis completed$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: $!");
      }
    }
  }
}
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 $@ 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 $tmp") {
            while (<F>) {
                s/\Q$Qtmp\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 !$s{$_}++, 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'
  }
  $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 '$ver'
    }
  }
  return ($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 "%.3d", $r, $v;
        $s > 0 && $ver .= sprintf "_%.2d", $s;
    }

    return $ver;
}

return sprintf "%.d%.d%.d", $r, $v, $s;
}

sub info
{
    $opt{quiet} && return;
    print @_, "\n";
}

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

sub warning
{
    $opt{quiet} && 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 ---\n", $hint;
    }
    $rv;
}

sub usage
{
    my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /=head\d\s+SYNOPSIS\s*^(.*?)\s*^=/ms;
    my %M = ( 'I' => '*' );
    $usage =~ s/\s+perl\s+\S+/$^X $0/;
    $usage =~ s/[^\s]+$/\M$0/$M/Xg;
    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*+(\S+)+(.*?)\s*=/ms;
    my %M = ( T => 'T' );
    $usage =~ s/\s+perl\s+/S+//X $0/;
    $usage =~ s/\s+\S+/$^X $1/$M/g;
    print "<<ENDUSAGE:
Usage: $usage
See perldoc $0 for details.
ENDUSAGE"
exit 2;
}

if (@ARGV && $ARGV[0] eq '--unstrip') {
escape { 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{
  / (?: \[^\*]*\*+(?:[\^\*]+$)\[^\*]*\| / | \[/\[\*\]*\]
  | \[\^[\*]\]\([^\^\*]++\[\^\*]\]^*\| / [\^\*]\]^*\)
  | ([\^\*]+(?:\^\[\^\*]\]^*\| / [\^\*]\]^*\)
  | \([^\*]\)*(?:\^\[\^\*]\]^*\| / [\^\*]\]^*\)
  | \([^\*]\)*(?:\^\[\^\*]\|^*\| / [\^\*]\|^*\)
  | (?\S*) }{ defined $2 ? ". . . : ($1 || ") }gsex;
$c =~ s!s+!!mg;
$c =~ s!\$LF!!mg;
$c =~ s!^\#!!mg;
$c =~ s!^!mg;

open OUT, "->$0" or die "cannot strip $0: $!
"
print OUT "$pl$c\n"
exit 0;
}

__DATA__
*/

Found in path(s):

1.1043 python3-rfc3986 1.2.0 2.el8ost
1.1043.1 Available under license:

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1.1044 augeas-libs 1.12.0 5.el8

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1.1045 erlang-sd-notify 1.0 7.el8ost

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1.1046 python3-stevedore 1.31.0

1.20201113095229.6817543.el8ost

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

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

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

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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1.1058 fuse 2.9.7 12.el8

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1.1060 librdkafka 0.11.4 1.el8
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For the files wingetopt.c wingetopt.h downloaded from https://github.com/alex85k/wingetopt

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lz4*: src/lz4*.[ch]: git@github.com:lz4/lz4.git e2827775ee80d2ef985858727575df31fc60f1f3

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"parts of src/rdmurmur2.c: git@github.com:abandoned/murmur2.git

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

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# Contribors to oauth2client

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* [Jon Wayne Parrott](https://github.com/jonparrott)
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John R. Hauser
2018 January 20

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-- Wolfgang Denk

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Key Dates

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* August 3, 2017

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with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a backwards compatible extension that adds support for document files in both source form and compiled form.

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Proposals (RFCs):
https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

TianoCore Bugzilla:
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* April 9, 2019

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=====================================================  
= Change Description / Commit Message / Patch Email =  
=====================================================  

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message ==

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject line following [Repository/Branch PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "Repository" is the identifier of the repository the patch applies. This identifier should only be provided for repositories other than
'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is the identifier of the branch the patch applies. This identifier should only be provided for branches other than 'edk2/master'. For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or 'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or 'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
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= Code Contributions =

To make a contribution to a TianoCore project, follow these steps.
1. Create a change description in the format specified below to use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version. For example: Contributed-under: TianoCore Contribution Agreement 1.0
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4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.
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==============================================
= Change Description / Commit Message / Patch Email =
==============================================

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject line following [PATCH]. The remaining portion of the commit message is the email's content until the ‘---’ line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UshBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
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{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%%s\(\%d,\%#x\)\)"", NULL, NULL },
{ TARGET_FREEBSD_NR_futimes, "futimes", "%%s\(\%#x\)\)"", NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)\)"", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", "%%s\(\%#x\)\)"", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd6_mmap, "freebsd6_mmap", "%%s\(\%#x\)\)"", NULL, NULL },
{ TARGET_FREEBSD_NR_getegid, "getegid", "%%s\(\%#x\)\)"", NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%%s\(\%#x\)\)"", NULL, NULL },
{ TARGET_FREEBSD_NR_getfh, "getfh", "%%s\(\%#x\)\)"", NULL, NULL },
{ TARGET_FREEBSD_NR_getfsstat, "getfsstat", "%%s\(\%#x\)\)"", NULL, NULL },
{ TARGET_FREEBSD_NR_getgsize, "getgsize", "%%s\(\%#x\)\)"", NULL, NULL },
{ TARGET_FREEBSD_NR_getgroups, "getgroups", "%%s\(\%#x\)\)"", NULL, NULL },
{ TARGET_FREEBSD_NR_getitimer, "getitimer", "%%s\(\%#x\)\)"", NULL, NULL },
{ TARGET_FREEBSD_NR_getlogin, "getlogin", "%%s\(\%#x\)\)"", NULL, NULL },
{ TARGET_FREEBSD_NR_getpeername, "getpeername", "%%s\(\%#x\)\)"", NULL, NULL },
{ TARGET_FREEBSD_NR_getppid, "getppid", "%%s\(\%#x\)\)"", NULL, NULL },
{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%%s\(\%#x\)\)"", NULL, NULL },
{ TARGET_FREEBSD_NR_getresgid, "getresgid", "%%s\(\%#x\)\)"", NULL, NULL },
{ TARGET_FREEBSD_NR_getresuid, "getresuid", "%%s\(\%#x\)\)"", NULL, NULL },
{ TARGET_FREEBSD_NR_getrlimit, "getrlimit", "%%s\(\%#x\)\)"", NULL, NULL },

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{ TARGET_FREEBSD_NR_getusage, "getusage", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsid, "getsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockname, "getsockname", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, print_ioctl, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s("%s",%"%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen, "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s("%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lstat, "lstat", "%s("%s",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mininherit, "mininherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s("%s",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknod, "mknod", "%s("%s",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mount, "mount", "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl, "msgctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s("%s",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "openat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s("%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_pipe, "pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_profile, "profile", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
```
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s("%s","%p,%d")", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s("%s","%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d,%d,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setssockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_signals, "signals", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },

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David Gibson <david@gibson.dropbear.id.au>
(principal original author of dtc and libfdt)
2 November 2007

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

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Key Dates
---------
* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0 to Version 1.1 to cover open source documentation associated with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a backwards compatible extension that adds support for document
files in both source form and compiled form.

References:
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Proposals (RFCs):
https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

TianoCore Bugzilla:
https://bugzilla.tianocore.org/show_bug.cgi?id=629

* April 9, 2019

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Proposals (RFCs):
https://lists.01.org/pipermail/edk2-devel/2019-February/036260.html

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Contributions.txt: TianoCore Contribution Agreement 1.1

= Code Contributions =

To make a contribution to a TianoCore project, follow these steps.
1. Create a change description in the format specified below to
   use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature,
   and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the
   contribution is made under the terms of the specified
   contribution agreement. Your "Contributed-under" message
   must include the name of contribution agreement and version.
   For example: Contributed-under: TianoCore Contribution Agreement 1.1
   The "TianoCore Contribution Agreement" is included below in
   this document.
4. Submit your code to the TianoCore project using the process
   that the project documents on its web page. If the process is
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   for the project.
5. It is preferred that contributions are submitted using the same
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Contributions using other licenses might be accepted, but further review will be required.

---

Your change description should use the standard format for a commit message, and must include your “Signed-off-by” signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject line following [Repository/Branch PATCH]. The remaining portion of the commit message is the email's content until the ‘---’ line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "Repository" is the identifier of the repository the patch applies. This identifier should only be provided for repositories other than 'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is the identifier of the branch the patch applies. This identifier should only be provided for branches other than 'edk2/master'. For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or
'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or 'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
* "Signed-off-by" is the contributor's signature identifying them by their real/legal name and their email address.

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2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version. For example: Contributed-under: TianoCore Contribution Agreement 1.0
   The "TianoCore Contribution Agreement" is included below in this document.
4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.
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Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message ==

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject line following [PATCH]. The remaining portion of the commit message is the email's content until the ‘---’ line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
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-- Wolfgang Denk

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Index: debug.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@
 void X86EMU_trace_regs (void)
 {
     if (DEBUG_TRACE()) {
-        x86emu_dump_regs();
+        x86emu_dump_regs();
     }
 }

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+if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+
x86emu_dump_xregs();
+} else {
+
x86emu_dump_regs();
+}
}
if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
printk("%04x:%04x ",M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
for (i=0; i< M.x86.enc_pos; i++) {
sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
}
- printk("%-20s",buf1);
+ printk("%-20s ",buf1);
}
static void print_decoded_instruction (void)
Index: ops2.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c7 Sep 2007 10:01:21 -00001.1
+++ ops2.c20 Mar 2008 15:48:34 -00001.3
@@ -149,8 +149,69 @@
target += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", target);
TRACE_AND_STEP();
- if (cond)
+ if (cond) {
M.x86.R_IP = (u16)target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+ }
+ DECODE_CLEAR_SEGOVR();
+ END_OF_INSTR();
+}
+
+/****************************************************************************
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+****************************************************************************/
+s32 x86emu_bswap(s32 reg)
+{
+ // perform the byte swap
+ s32 temp = reg;
+ reg = (temp & 0xFF000000) >> 24;
+ reg |= (temp & 0xFF0000) >> 8;

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+ reg |= (temp & 0xFF00) << 8;
+ reg |= (temp & 0xFF) << 24;
+ return reg;
+
+ void x86emuOp2_bswap(u8 op2)
+ {
+   /* byte swap 32 bit register */
+   START_OF_INSTR();
+   DECODE_PRINTF("BSWAP\n");
+   switch (op2) {
+     case 0xc8:
+       DECODE_PRINTF("EAX\n");
+       M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+       break;
+     case 0xc9:
+       DECODE_PRINTF("ECX\n");
+       M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
+       break;
+     case 0xca:
+       DECODE_PRINTF("EDX\n");
+       M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+       break;
+     case 0xcb:
+       DECODE_PRINTF("EBX\n");
+       M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+       break;
+     case 0xcc:
+       DECODE_PRINTF("ESP\n");
+       M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+       break;
+     case 0xcd:
+       DECODE_PRINTF("EBP\n");
+       M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+       break;
+     case 0xce:
+       DECODE_PRINTF("ESI\n");
+       M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+       break;
+     case 0xcf:
+       DECODE_PRINTF("EDI\n");
+       M.x86.R_EDI = x86emu_bswap(M.x86.R_EDI);
+       break;
+   }
+   TRACE_AND_STEP();
+   DECODE_CLEAR_SEGOVR();
+   END_OF_INSTR();
+ }
@@ -1702,14 +1763,14 @@
/*  0xc5 */ x86emuOp2_illegal_op,
/*  0xc6 */ x86emuOp2_illegal_op,
/*  0xc7 */ x86emuOp2_illegal_op,
-/*  0xc8 */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xc9 */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xca */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcb */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcc */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcd */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xce */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcf */ x86emuOp2_illegal_op,  /* TODO: bswap */
+/*  0xc8 */ x86emuOp2_bswap,
+/*  0xc9 */ x86emuOp2_bswap,
+/*  0xca */ x86emuOp2_bswap,
+/*  0xcb */ x86emuOp2_bswap,
+/*  0xcc */ x86emuOp2_bswap,
+/*  0xcd */ x86emuOp2_bswap,
+/*  0xce */ x86emuOp2_bswap,
+/*  0xcf */ x86emuOp2_bswap,

/*  0xd0 */ x86emuOp2_illegal_op,
/*  0xd1 */ x86emuOp2_illegal_op,
Index: ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c7 Sep 2007 10:01:21 -0000
+++ ops.c20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
 imm = (s8)fetch_byte_imm();
 DECODE_PRINTF2("PUSH\t%d\n", imm);
 TRACE_AND_STEP();
- push_word(imm);
+ if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+     push_long(imm);
+ } else {
+     push_word(imm);
+ }
 DECODE_CLEAR_SEGOVR();
 END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
 target = (u16)(M.x86.R_IP + (s16)offset);
 DECODE_PRINTF2("%x\n", target);
 TRACE_AND_STEP();
- if (cond)
if (cond) {
    M.x86.R_IP = target;
    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}@

count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
/* dont care whether REPE or REPNE */
    /* move them until CX is ZERO. */
    count = M.x86.R_CX;
    /* move them until (E)CX is ZERO. */
    count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
    if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} while (count--) {
store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
    if (M.x86.intr & INTR_HALTED)
        break;
} DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
/* dont care whether REPE or REPNE */
    /* move them until CX is ZERO. */
    count = M.x86.R_CX;
    /* move them until (E)CX is ZERO. */
    count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
    if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} while (count--) {
store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
if (M.x86.intr & INTR_HALT) {
    break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2598,16 +2612,21 @@
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) { 
    /* REPE */
    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        val1 = fetch_data_byte(M.x86.R_SI);
        val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_byte(val1, val2);
-        M.x86.R_CX -= 1;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+        else
+            M.x86.R_CX -= 1;
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
        if ( (M.x86.mode & SYSMODE_PREFIX_DATA) && (ACCESS_FLAG(F_ZF) == 0) ) break;
        if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+        if (M.x86.intr & INTR_HALT)
+            break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2644,8 +2663,8 @@
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) { 
    /* REPE */
    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        if (M.x86.mode & SYSMODEPREFIX_DATA) {
            val1 = fetch_data_long(M.x86.R_SI);
            val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
@@ -2655,11 +2674,16 @@
            cmp_word((u16)val1, (u16)val2);
        }
-        M.x86.R_CX -= 1;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
    }
}
else
    M.x86.R_CX -= 1;
M.x86.R_SI += inc;
M.x86.R_DI += inc;
if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
    if (M.x86.intr & INTR_HALTED)
        break;
 }
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2741,11 +2765,16 @@
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
+    /* move them until (E)CX is ZERO. */
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
-        M.x86.R_CX -= 1;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+        else
+            M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
+        if (M.x86.intr & INTR_HALTED)
+            break;
    }
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2783,9 +2812,11 @@
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-    /* move them until CX is ZERO. */
-    count = M.x86.R_CX;
+    /* move them until (E)CX is ZERO. */
+    count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
+        M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
)
while (count--) {
@@ -2795,6 +2826,8 @@
    store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
M.x86.R_DI += inc;
+ if (M.x86.intr & INTR_HALTED)
+ break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2817,11 +2850,16 @@
inc = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
  /* dont care whether REPE or REPNE */
  /* move them until CX is ZERO. */
-  while (M.x86.R_CX != 0) {
+  while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
+    if (M.x86.intr & INTR_HALTED)
+      break;
+  }
+  M.x86.R_CX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2859,9 +2897,11 @@
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
  /* dont care whether REPE or REPNE */
-  while (M.x86.R_CX != 0) {
+  while (M.x86.R_ECX != 0) {
    M.x86.R_CX -= 1;
-    if (M.x86.intr & INTR_HALTED)
-      break;
-  }
+    if (M.x86.intr & INTR_HALTED)
+      break;
  }
  if (M.x86.mode & SYSMODE_32BIT_REP)
    M.x86.R_ECX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2871,6 +2911,8 @@
M.x86.R_AX = fetch_data_word(M.x86.R_SI);
}
M.x86.R_SI += inc;
+ if (M.x86.intr & INTR_HALTED)
+ break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2894,26 +2936,36 @@
    inc = 1;
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
         /* REPE */
-        /* move them until CX is ZERO. */
-        while (M.x86.R_CX != 0) {
+        /* move them until (E)CX is ZERO. */
+        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(M.x86.R_AL, val2);
            -            M.x86.R_CX -= 1;
+            if (M.x86.mode & SYSMODE_32BIT_REP)
+                M.x86.R_ECX -= 1;
+            else
+                M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF) == 0)
                break;
            +            if (M.x86.intr & INTR_HALTED)
+                break;
+        }
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPE;
    } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
         /* REPNE */
         /* move them until CX is ZERO. */
-        while (M.x86.R_CX != 0) {
+        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(M.x86.R_AL, val2);
            -            M.x86.R_CX -= 1;
+            if (M.x86.mode & SYSMODE_32BIT_REP)
+                M.x86.R_ECX -= 1;
+            else
+                M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF))
                break;        /* zero flag set means equal */
            +            if (M.x86.intr & INTR_HALTED)
+                break;
+        }
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
@@ -2951,8 +3003,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
         /* REPE */

/* move them until (E)CX is ZERO. */
+/* move them until (E)CX is ZERO. */
+while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
        val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_long(M.x86.R_EAX, val);
    }
    val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_word(M.x86.R_AX, (u16)val);
} }
- M.x86.R_CX -= 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+    M.x86.R_ECX -= 1;
+ else
+    M.x86.R_CX -= 1;
+    if (M.x86.intr & INTR_HALTED)
+        break;
+ if (M.x86.intr & INTR_HALTED)
+    break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
-    /* move them until (E)CX is ZERO. */
-    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
-        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
-            val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
-            cmp_long(M.x86.R_EAX, val);
-        }
-        val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
-        cmp_word(M.x86.R_AX, (u16)val);
-    }
-    M.x86.R_CX -= 1;
-    if (M.x86.intr & INTR_HALTED)
-        break;
- if (M.x86.intr & INTR_HALTED)
-    break;
}
- M.x86.R_CX -= 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+    M.x86.R_ECX -= 1;
+ else
+    M.x86.R_CX -= 1;
+    if (ACCESS_FLAG(F_ZF))
+        /* zero flag set means equal */
+    if (M.x86.intr & INTR_HALTED)
+        break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
@@ -3238,9 +3300,9 @@
    DECODE_PRINTF("RET\t");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RET", M.x86.saved_cs, M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -3254,9 +3316,9 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RET\n");
-RETURN_TRACE("RET", M.x86.saved_cs, M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -3471,10 +3533,10 @@
    DECODE_PRINTF("REF\t");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("REF", M.x86.saved_cs, M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("REF\n");
-RETURN_TRACE("REF", M.x86.saved_cs, M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
ip += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
TRACE_AND_STEP();
- M.x86.R_CX := 1;
- if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF))  /* CX != 0 and !ZF */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.R_ECX := 1;
+ else
+    M.x86.R_CX := 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
!ACCESS_FLAG(F_ZF))  /* (E)CX != 0 and !ZF */
    M.x86.R_IP = ip;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4041,8 +4106,11 @@
ip += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
TRACE_AND_STEP();
- M.x86.R_CX := 1;
- if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF))  /* CX != 0 and ZF */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.R_ECX := 1;
+ else
+    M.x86.R_CX := 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
ACCESS_FLAG(F_ZF))  /* (E)CX != 0 and ZF */
    M.x86.R_IP = ip;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4062,8 +4130,11 @@
    if (M.x86.R_CX == 0)
    target = (u16)(M.x86.R_IP + offset);
DECODE_PRINTF2("%x\n", target);
TRACE_AND_STEP();
- if (M.x86.R_CX == 0)
if (M.x86.R_CX == 0) {
    M.x86.R_IP = target;
    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
}

DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

@@ -4213,6 +4286,7 @@
ip = (s16)fetch_word_imm();
ip += (s16)M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = (u16)ip;
    DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
    cs = fetch_word_imm();
    DECODE_PRINTF2("%04x:\", cs);
    DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = ip;
    M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
    offset = (s8)fetch_byte_imm();
target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
    TRACE_AND_STEP();
    M.x86.R_IP = target;
    DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
    DECODE_PRINTF("REPNE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPNE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
    DECODE_PRINTF("REPE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
break;
case 4: /* jmp word ptr ... */
    destval = fetch_data_word(destoffset);
    + JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD");
    TRACE_AND_STEP();
    M.x86.R_IP = destval;
    break;
case 5: /* jmp far ptr ... */
    destval = fetch_data_word(destoffset);
    destval2 = fetch_data_word(destoffset + 2);
    + JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR");
    TRACE_AND_STEP();
    M.x86.R_IP = destval;
    M.x86.R_CS = destval2;
Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ prim_ops.c 16 Jan 2008 14:18:15 -0000 1.3
@@ -1921,7 +1921,7 @@
     void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
 {
 #ifdef __HAS_LONG_LONG__
-    s64 res = (s64)d * (s64)s;
+    s64 res = (s32)d * (s64)(s32)s;
     *res_lo = (u32)res;
     *res_hi = (u32)(res >> 32);
@@ -2013,7 +2013,7 @@
     void mul_long(u32 s)
 {
 #ifdef __HAS_LONG_LONG__
-    u64 res = (u32)M.x86.R_EAX * (u32)s;
+    u64 res = (u64)M.x86.R_EAX * s;
     M.x86.R_EAX = (u32)res;
     M.x86.R_EDX = (u32)(res >> 32);
@@ -2312,16 +2312,15 @@
     if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
         /* dont care whether REPE or REPNE */
-        /* in until CX is ZERO. */
-        u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?

+ /* in until (E)CX is ZERO. */
+ u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
+ M.x86.R_ECX : M.x86.R_CX);
-
- while (count--) {
-     single_in(size);
-     M.x86.R_DI += inc;
- }
- M.x86.R_CX = 0;
- if (M.x86.mode & SYSMODE_PREFIX_DATA) {
-     if (M.x86.mode & SYSMODE_32BIT_REP) {
-         M.x86.R_ECX = 0;
-     }
-     M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
- }
- if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
- /* dont care whether REPE or REPNE */
-     /* out until CX is ZERO. */
-     u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
-     /* out until (E)CX is ZERO. */
-     u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
-     M.x86.R_ECX : M.x86.R_CX);
-     while (count--) {
-         single_out(size);
-         M.x86.R_SI += inc;
-     }
-     M.x86.R_CX = 0;
-     if (M.x86.mode & SYSMODE_PREFIX_DATA) {
-         if (M.x86.mode & SYSMODE_32BIT_REP) {
-             M.x86.R_ECX = 0;
-         }
-         M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
-     }
- }
Index: sys.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
retrieving revision 1.2
diff -u -u -r1.1 -r1.2
--- sys.c 7 Sep 2007 10:01:21 -0000
+++ sys.c 7 Sep 2007 10:03:13 -0000
@@ -45,11 +45,6 @@
 #include <x86emu/regs.h>
 #include "debug.h"
 #include "prim_ops.h"
-#ifdef LINUXBIOS_VERSION
-#include "io.h"
-#else

-#include <sys/io.h>
-#endif

#ifdef IN_MODULE
#include "xf86_ansic.h"
@@ -220,7 +215,7 @@
{
DB(if (DEBUG_IO_TRACE())
printk("inb %#04x \n", addr);
-return inb(addr);
+return 0;
}

/****************************************************************************
@@ -235,7 +230,7 @@
{
DB(if (DEBUG_IO_TRACE())
printk("inw %#04x \n", addr);
-return inw(addr);
+return 0;
}

/****************************************************************************
@@ -250,7 +245,7 @@
{
DB(if (DEBUG_IO_TRACE())
printk("inl %#04x \n", addr);
-return inl(addr);
+return 0;
}

/****************************************************************************
@@ -264,7 +259,6 @@
{
DB(if (DEBUG_IO_TRACE())
printk("outb %#02x -> %#04x \n", val, addr);
-outb(val, addr);
return;
}

@@ -279,7 +273,6 @@
{
DB(if (DEBUG_IO_TRACE())
printk("outw %#04x -> %#04x \n", val, addr);
-outw(val, addr);
return;
}
@@ -295,7 +288,6 @@
   DB(if (DEBUG_IO_TRACE())
       printk(“outl %#08x -> %#04x \n”, val, addr);
   )
-
   -outl(val, addr);
   return;
   }

@@ -405,6 +397,6 @@
 void X86EMU_setMemBase(void *base, size_t size)
 {
-  M.mem_base = (int) base;
+  M.mem_base = (unsigned long) base;
   M.mem_size = size;
 }

Index: include/x86emu/debug.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h	7 Sep 2007 10:01:21 -0000	1.1
+++ include/x86emu/debug.h	20 Mar 2008 15:25:27 -0000	1.4
@@ -40,8 +40,6 @
 #ifndef __X86EMU_DEBUG_H
 #define __X86EMU_DEBUG_H
/*---------------------- Macros and type definitions ----------------------*/
-
-#define DEBUG 0
-#undef DEBUG
/*---------------------- Macros and type definitions ----------------------*/

-/*------------------------------- Macros and type definitions ----------------*/

/* checks to be enabled for "runtime" */
@@ -78,6 +76,8 @@
 # define DEBUG_SYSINT()   (M.x86.debug & DEBUG_SYSINT_F)
 # define DEBUG_TRACECALL()  (M.x86.debug & DEBUG_TRACECALL_F)
 # define DEBUG_TRACECALLREGS()  (M.x86.debug & DEBUG_TRACECALLREGS_F)
+# define DEBUG_TRACEJMP()   (M.x86.debug & DEBUG_TRACEJMP_F)
+# define DEBUG_TRACEJMPREGS()  (M.x86.debug & DEBUG_TRACEJMPREGS_F)
 # define DEBUG_SYS()       (M.x86.debug & DEBUG_SYS_F)
 # define DEBUG_MEM_TRACE() (M.x86.debug & DEBUG_MEM_TRACE_F)
 # define DEBUG_IO_TRACE()  (M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
 # define DEBUG_SYSINT()   0
 # define DEBUG_TRACECALL()  0
 # define DEBUG_TRACECALLREGS()  0
+# define DEBUG_TRACEJMP()   0
+# define DEBUG_TRACEJMPREGS()  0
# define DEBUG_SYS()  0
# define DEBUG_MEM_TRACE()  0
# define DEBUG_IO_TRACE()  0
@@ -169,14 +171,20 @@
x86emu_dump_regs();
  
  if (DEBUG_TRACECALL())
  
-# define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
  if (DEBUG_TRACECALL_REGS())
  
  x86emu_dump_regs();
  
  if (DEBUG_TRACECALL())
  
-  -printf("%04x:%04x: %s\n",u,v,n);
+  -printf("%04x:%04x: %s\n",u,v,s,w,x);
  +# define JMP_TRACE(u,v,w,x,s)
  +  if (DEBUG_TRACEJMP_REGS())
  +      x86emu_dump_regs();
  +  if (DEBUG_TRACEJMP())
  +      printk("%04x:%04x: JMP %s%04x:%04x\n", u , v, s, w, x);
    #else
    # define CALL_TRACE(u,v,w,x,s)
-# define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
+  # define JMP_TRACE(u,v,w,x,s)
    #endif

#endif DEBUG

Index: include/x86emu/regs.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 -0000 1.4
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE    0x00000100
#define SYSMODE_PREFIX_DATA     0x00000200
#define SYSMODE_PREFIX_ADDR     0x00000400
+  //phueper: for REP(E|NE) Instructions, we need to decide whether it should be using
+  //the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP       0x00000800
#define SYSMODE_INTR_PENDING    0x10000000
#define SYSMODE_EXTRN_INTR      0x20000000
#define SYSMODE_HALTED          0x40000000
@@ -250,7 +253,8 @@
  SYSMODE_SEGOVR_GS      | 
  SYSMODE_SEGOVR_SS      |
  SYSMODE_32BIT_REP     | 
  SYSMODE_INTR_PENDING | 
  SYSMODE_EXTRN_INTR   | 
  SYSMODE_HALTED       | 

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#define INTR_SYNCH 0x1
#define INTR_ASYNCH 0x2

 int debug;
#endif DEBUG

type save_ip;
type save_cs;
type enc_pos;

Index: include/x86emu/x86emu.h

===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/x86emu.h19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@

 #define printk(x...) printk(BIOS_DEBUG, x)
 #else
 +#include <stdio.h>
 #define printk printf
-endif

@@ -189,6 +181,8 @@

#define DEBUG_TRACECALL_REGS_F 0x004000
#define DEBUG_DECODE_NOPRINT_F 0x008000
#define DEBUG_SAVE_IP_CS_F 0x010000
+define DEBUG_TRACEJMP_F 0x020000
+define DEBUG_TRACEJMP_REGS_F 0x040000
#define DEBUG_SYS_F (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@

#define __cplusplus

/* End of “C” linkage for C++ */
#endif
#endif /* __X86EMU_X86EMU_H */

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

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

version = "2.5"

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,6):
        raise SystemExit("Sorry, Python 2.6 or newer required")

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': version,
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
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        'url': 'https://github.com/kjd/idna',
        'classifiers': [
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            'Operating System :: OS Independent',
            'Programming Language :: Python',
            'Programming Language :: Python :: 2.6',
            'Programming Language :: Python :: 2.7',
            'Programming Language :: Python :: 3',
```

This is the latest version of the protocol and is sometimes referred to as “IDNA 2008”.

This library also provides support for Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_.

This acts as a suitable replacement for the “encodings.idna” module that
Open Source Used In Cisco VIM 4.2.0  13433

comes with the Python standard library, but only supports the

Basic functions are simply executed:

.. code-block:: pycon

    # Python 3
    >>> import idna
    >>> idna.encode('.
    b'xn--eckwd4c7c.xn--zckzah'
    >>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))

    # Python 2
    >>> import idna
    >>> idna.encode(u'.')
    'xn--eckwd4c7c.xn--zckzah'
    >>> print idna.decode('xn--eckwd4c7c.xn--zckzah')

Packages
--------

The latest tagged release version is published in the PyPI repository:

.. image:: https://badge.fury.io/py/idna.svg
   :target: http://badge.fury.io/py/idna

Installation
------------

To install this library, you can use pip:

.. code-block:: bash

    $ pip install idna

Alternatively, you can install the package using the bundled setup script:

.. code-block:: bash

    $ python setup.py install

This library works with Python 2.6 or later, and Python 3.3 or later.
Usage
-----

For typical usage, the `encode` and `decode` functions will take a domain name argument and perform a conversion to A-labels or U-labels respectively.

.. code-block:: pycon

    # Python 3
    >>> import idna
    >>> idna.encode('.
    b'xn--eckwd4c7c.xn--zckzah'
    >>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
    .

You may use the codec encoding and decoding methods using the `idna.codec` module:

.. code-block:: pycon

    # Python 2
    >>> import idna.codec
    >>> print u'.'.encode('idna')
    xn--80ahd1agd.xn--80akhbyknj4f
    >>> print 'xn--80ahd1agd.xn--80akhbyknj4f'.decode('idna')

Conversions can be applied at a per-label basis using the `ulabel` or `alabel` functions if necessary:

.. code-block:: pycon

    # Python 2
    >>> idna.alabel(u'')
    'xn--0zwm56d'

Compatibility Mapping (UTS #46)
+++++++++++++++++++++++++++++++  

As described in RFC 5895 <http://tools.ietf.org/html/rfc5895>__, the IDNA specification no longer normalizes input from different potential ways a user may input a domain name. This functionality, known as a “mapping”, is now considered by the specification to be a local user-interface issue distinct from IDNA conversion functionality.

This library provides one such mapping, that was developed by the Unicode Consortium. Known as `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>__`, it provides for both a regular mapping for typical applications, as well as
a transitional mapping to help migrate from older IDNA 2003 applications.

For example, “Königsgäßchen” is not a permissible label as *LATIN CAPITAL LETTER K* is not allowed (nor are capital letters in general). UTS 46 will convert this into lower case prior to applying the IDNA conversion.

```python
# Python 3
>>> import idna
>>> idna.encode(u'Königsgäßchen')
...
idna.core.InvalidCodepoint: Codepoint U+004B at position 1 of 'Königsgäßchen' not allowed
>>> idna.encode('Königsgäßchen', uts46=True)
b'xn--knigsgchen-b4a3dun'
>>> print(idna.decode('xn--knigsgchen-b4a3dun'))
königsgäßchen
```

Transitional processing provides conversions to help transition from the older 2003 standard to the current standard. For example, in the original IDNA specification, the *LATIN SMALL LETTER SHARP S* (ß) was converted into two *LATIN SMALL LETTER S* (ss), whereas in the current IDNA specification this conversion is not performed.

```python
# Python 2
>>> idna.encode(u'Königsgäßchen', uts46=True, transitional=True)
'xn--knigsgsschen-lcb0w'
```

Implementors should use transitional processing with caution, only in rare cases where conversion from legacy labels to current labels must be performed (i.e. IDNA implementations that pre-date 2008). For typical applications that just need to convert labels, transitional processing is unlikely to be beneficial and could produce unexpected incompatible results.

```
``encodings.idna`` Compatibility
+++++++++++++++++++++++++++++++

Function calls from the Python built-in ``encodings.idna`` module are mapped to their IDNA 2008 equivalents using the ``idna.compat`` module. Simply substitute the ``import`` clause in your code to refer to the new module name.

Exceptions
---------

All errors raised during the conversion following the specification should
raise an exception derived from the ``idna.IDNAError`` base class.

More specific exceptions that may be generated as ``idna.IDNABidiError`` when the error reflects an illegal combination of left-to-right and right-to-left characters in a label; ``idna.InvalidCodepoint`` when a specific codepoint is an illegal character in an IDN label (i.e. INVALID); and ``idna.InvalidCodepointContext`` when the codepoint is illegal based on its positional context (i.e. it is CONTEXTO or CONTEXTJ but the contextual requirements are not satisfied.)

Testing
-------

The library has a test suite based on each rule of the IDNA specification, as well as tests that are provided as part of the Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_.

The tests are run automatically on each commit at Travis CI:

.. image:: https://travis-ci.org/kjd/idna.svg?branch=master
   :target: https://travis-ci.org/kjd/idna

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: System Administrators
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Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
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Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Topic :: Internet :: Name Service (DNS)
Classifier: Topic :: Software Development :: Libraries :: Python Modules
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Found in path(s):
* /opt/cola/permits/1162153953_1620791384.37/0/python-idna-2.5-5.el8-1.src.rpm-cosi-expand-archive-4vwoFDO6/idna-2.5.tar.gz-cosi-expand-archive-QrMnE9AO/idna-2.5/PKG-INFO
* /opt/cola/permits/1162153953_1620791384.37/0/python-idna-2.5-5.el8-1.src.rpm-cosi-expand-archive-4vwoFDO6/idna-2.5.tar.gz-cosi-expand-archive-QrMnE9AO/idna-2.5/idna.egg-info/PKG-INFO

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(lp1
(ccopy_reg
    _reconstructor
p2
(cpygments.token
    _TokenType
p3
c__builtin__
tuple
p4
(S'Text'
p5
rtRp6
(dp7
S'subtypes'
p8
c__builtin__
set
Open Source Used In Cisco VIM 4.2.0
Open Source Used In Cisco VIM 4.2.0  13484
V# New ports collection makefile for: python25\u000a
Date created: 3 July 2003

Whom: Hye-Shik Chang <perky@FreeBSD.org>


PORTNAME = python25

Open Source Used In Cisco VIM 4.2.0 13482
VPORTVERSION
p386
tp387
atg353
V=
tp388
atg6
V
tp389
atg6
V
2.5.1
p390
tp391
atg6
V\000a
tp392
atg100
VCATEGORIES
p393
tp394
atg353
V=
.tp395
atg6
V
.tp396
atg6
V\lang
p397
.tp398
atg6
V
.tp399
atg6
V\python
p400
tp401
atg6
V
.tp402
atg6
V\ipv6
p403
tp404
atg6
V\000a
.tp405
atg100
VMASTER_SITES
p406
tp407
atg353
V=
tp408
atg6
V
atp409
atg138
V$\{ 
p410
tp411
atg100
VPYTHON_MASTER_SITES
p412
tp413
atg138
V\}
tp414
atg6
V\\u000a
tp415
atg100
VMASTER_SITE_SUBDIR
p416
tp417
atg353
V=
tp418
atg6
V
atp419
atg138
V$\{ 
p420
tp421
atg100
VPYTHON_MASTER_SITE_SUBDIR
p422
tp423
atg138
V\}
tp424
atg6
V\\u000a
tp425
atg100
VDISTFILES
p426
tp427
at(g353
V=
tp428
at(g6
V
tp429
at(g138
V$

p430
tp431
at(g100
VPYTHON_DISTFILE
p432
tp433
at(g138
V}

p434
at(g6
Vu000a\u000a
p435
tp436
at(g100
VMAINTAINER
p437
tp438
at(g353
V=
tp439
at(g6
V
tp440
at(g6
Vpython@FreeBSD.org

p441
tp442
at(g6
Vu000a
 tp443
at(g6
VCOMMENT?

p444
tp445
at(g353
V=
tp446
a\text{g6}
V
tp447
a\text{g6}
VAn
p448
tp449
a\text{g6}
V
tp450
a\text{g6}
Vinterpreted
p451
tp452
a\text{g6}
V
tp453
a\text{g6}
Vobject-oriented
p454
tp455
a\text{g6}
V
tp456
a\text{g6}
Vprogramming
p457
tp458
a\text{g6}
V
tp459
a\text{g6}
Vlanguage
p460
tp461
a\text{g6}
V\text{u000a}\text{u000a}
p462
tp463
a\text{g100}
VDIST_SUBDIR
p464
tp465
a\text{g353}
V=
 tp466
a\text{g6}
V
Open Source Used In Cisco VIM 4.2.0 13487

```bash
Vpython

VWRKSRC

VPYTHON_WRKSRC

VPATCH_WRKSRC
```

---

Open Source Used In Cisco VIM 4.2.0 13487
V$}
p488
tp489
agt100
VPYTHON_WRKSRC
p490
tp491
agt138
V}
tp492
agt6
V\u000a
ntp493
agt100
VGNU_CONFIGURE
p494
tp495
agt353
V=
tp496
agt6
V
tp497
agt6
Vyes
p498
tp499
agt6
V\u000a
ntp500
agt100
VCONFIGURE_TARGET
p501
tp502
agt353
V=
tp503
agt6
V
tp504
agt6
V--build
p505
tp506
agt353
V=
tp507
agt138
VMACHINE_ARCH

Vportsd-freebsd

VCONFIGURE_SCRIPT

V# must be relative

V
VCONFIGURE_ENV
V= 

VOPT
V="$\{CFLAGS\}" 

VSVNVERSION
V="echo freebsd"

VMAKE_ENV
VVPATH

V INSTALLS_SHLIB

V INSTALL_TARGET

V install
a(g100
VPYTHON_VERSION
p591
tp592
atg353
V=
tp593
atg6
V
tp594
atg6
Vpython2.5
p595
tp596
atg6
V\u000a
tp597
atg100
VPYTHON_NO_DEPENDS
p598
tp599
atg353
V=
tp600
atg6
V
tp601
atg6
Vyes
p602
tp603
atg6
V\u000a\u000a
p604
tp605
atg100
VSHARED_WRKSRCP606
tp607
atg353
V=
tp608
atg6
V
tp609
atg138
V$\{
tp611
a(g100
VPYTHON_WRKSRCP612
tp613
a(g138
V}tp614
a(g6
V/portbld.sharedp615
tp616
a(g6
V\u0000ap617
a(g100
VPPLISTp618
tp619
a(g353
V=tp620
a(g6
Vp621
tp622
a(g138
V$\{p623
tp624
a(g100
VWRKDIRp625
tp626
a(g138
V}tp627
a(g6
V/PLISTp628
tp629
a(g6
V\u0000ap630
a(g6
VPPLIST_TEMPLATE?p631
}
tp632
Open Source Used In Cisco VIM 4.2.0  13507
p715
tp716
a|g6
V
tp717
a|g6
Vpydoc
p718
tp719
a|g6
V
tp720
a|g6
Vpython
p721
tp722
a|g6
V
tp723
a|g6
Vpython-shared
p724
tp725
a|g6
V
tp726
a|g6
Vsmtpd.py
p727
tp728
a|g6
V
tp729
a|g6
Vpython-config
p730
tp731
a|g6
V
tp732
a|g262
V\u005c\u000a
p733
tp734
a|g6
V
p735
tp736
p757
tp758
a(g6
V\u000a\u000a
p759
tp760
a(g100
VOPTIONS
p761
tp762
a(g353
V=
tp763
a(g6
V
tp764
a(g6
VTHREADS
p765
tp766
a(g6
V
tp767
a(g255
V"Enable thread support"
p768
tp769
a(g6
V
tp770
a(g6
Von
p771
tp772
a(g6
V
tp773
a(g262
V\u000c\u000a
p774
tp775
a(g6
V
p776
tp777
a(g6
VHUGE_STACK_SIZE
p778
V"Use a larger thread stack"

V\u005c\u000a

V"Use UCS4 for unicode support"
V\u005c\u000a
p800
tp801
at\(g\)6
V
p802
tp803
at\(g\)6
V
p804
V
p805
V
p806
at\(g\)255
V"Use python's internal malloc"
p807
tp808
at\(g\)6
V
p809
at\(g\)6
V
p810
V
p811
at\(g\)6
V
p812
at\(g\)262
V\u005c\u000a
p813
tp814
at\(g\)6
V
p815
tp816
at\(g\)6
V
p817
V
p818
at\(g\)6
V
p819
at\(g\)255
V"Enable IPv6 support"
p820
tp821
at\(g\)6
V
a(g6
V
p823
tp824
a(g6
V
tp825
a(g262
V\u0005c\u000a
p826
tp827
a(g6
V
p828
tp829
a(g6
VFPECTL
p830
tp831
a(g6
V
tp832
a(g255
V"Enable floating point exception handling"
p833
tp834
a(g6
V
tp835
a(g6
Voff
p836
tp837
a(g6
V\u0000a\u000a
p838
tp839
a(g27
V.include <bsd.port.pre.mk>\u000a
p840
tp841
a(g6
V\u0000a
tp842
a(g27
V.if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION} \u000a
a(g6
V
p865
a(g100
VIF_DEFAULT
p866
tp867
a(g353
V=
tp868
a(g255
V"

p869
tp870
a(g6
V\u000a
p871
a(g27
V.else\u000a
p872
tp873
a(g6
V
p874
a(g6
VPLIST_SUB+

p875
tp876
a(g353
V=
tp877
a(g6
V
p878
a(g100
VIF_DEFAULT
p879
tp880
a(g353
V=
tp881
a(g255
V"@comment "

p882
tp883
a(g6
V\u000a
p884
a(g27
V.endif
p885
tp886
a(g6
V\u0000a
tp887
a(g24
V# workaround for a bug in base curses.h\u0000a
p888
tp889
a(g6
V
tp890
a(g6
VCFLAGS+
p891
tp892
a(g353
V=
tp893
a(g6
V
tp894
a(g6
V-D__wchar_t
p895
tp896
a(g353
V=
tp897
a(g6
Vwchar_t
p898
tp899
a(g6
V\u0000a\u0000a
p900
tp901
a(g27
V.if !defined(WITHOUT_THREADS)\u0000a
p902
tp903
a(g6
V
tp904
a(g6
VCONFIGURE_ARGS+
with-threads

VCFLAGS+

V

\{  


V

\}

V

\}

V.


VCFLAGS+
p926
tp927
atg353
V=
tp928
atg6
V
p929
tp930
atg6
V-DTHREAD_STACK_SIZE
p931
tp932
atg353
V=
tp933
atg6
V0x20000
p934
tp935
atg6
V\u000a
p936
atg7
V.else\u000a
p937
atg8
atg6
V
p939
atg6
VCFLAGS+
p940
tp941
atg353
V=
tp942
atg6
V
p943
tp944
atg6
V-DTHREAD_STACK_SIZE
p945
tp946
atg353
V=
tp947
a(g6
V0x100000
p948
tp949
a(g6
V\u000a
p950
a(g27
V.endif # defined(WITHOUT_HUGE_STACK_SIZE)\u000a
p951
tp952
a(g6
V
p953
a(g6
VCONFIGURE_ENV+

p954
tp955
a(g353
V=

p956
a(g6
V

p957
tp958
a(g100
VLDFLAGS
p959
tp960
a(g353
V=

p961
a(g255
V"$\{PTHREAD_LIBS\} $\{LDFLAGS\}"

p962
tp963
a(g6
V\u000a
p964
a(g27
V.else\u000a
p965
tp966
a(g6
V

p967
a(g6

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VCONFIGURE_ARGS+
p968
tp969
atg353
V=
tp970
atg6
V
tp971
atg6
V--without-threads
p972
tp973
atg6
V\u000a

tp974
atg27
V.if defined(LDFLAGS)\u000a
p975
tp976
atg6
V

tp977
atg6
VCONFIGURE_ENV+
p978
tp979
atg353
V=
tp980
atg6
V
p981
tp982
atg100
VLDFLAGS
p983
tp984
atg353
V=
tp985
atg255
V"${LDFLAGS}" 
p986
tp987
atg6
V\u000a

tp988
V.endif # defined(LDFLAGS)\u000a
p989
V

V.endif # !defined(WITHOUT_THREADS)\u000a
p992
V\u000a

V.if !defined(WITHOUT_UCS4) && !defined(WITH_UCS2)\u000a
p995
V

VCONFIGURE_ARGS+=
V=\u000a

--enable-unicode
p1002
V=\u000a
Vucs4\u000a

V=\u000a
V.endif\u000a
p1008
V if defined(WITHOUT_PYMALLOC)
V CONFIGURE_ARGS+=
V
V
V--without-pymalloc
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V\u000a

if ${ARCH} == amd64 || ${ARCH} == ia64 || ${ARCH} == sparc64 || ${ARCH} == alpha

VPLIST_SUB+

V32BIT_ONLY

V"@comment "

else

V

V
V-DPYTHON_DEFAULT_RECURSION_LIMIT

if !exists(/usr/bin/ypcat) # the world with NO_NIS

VPLIST_SUB+

VNO_NIS
V"@comment "
pl112
pl113
atg6
V\u000a
pl114
atg27
V.else\u000a
pl115
pl116
atg6
V
pl117
atg6
VPLIST_SUB+
pl118
pl119
atg353
V=
pl120
atg6
V
pl121
atg100
VNO_NIS
pl122
pl123
atg353
V=
pl124
atg255
V="
pl125
pl126
atg6
V\u000a
pl127
atg27
Vendif\u000a
pl128
pl129
atg6
V\u000a
pl130
atg27
V.if \!defined(WITHOUT_IPV6)\u000a
pl131
pl132
VCONFIGURE_ARGS+ p1134
VCONFIGURE_ARGS+ p1135
VCONFIGURE_ARGS+ p1144
VCONFIGURE_ARGS+ p1145
VCONFIGURE_ARGS+ p1148
VCONFIGURE_ARGS+ p1149
VCONFIGURE_ARGS+ p1150
V
V
V
= =
V
V
V--with-fpectl
V
V
= 
V
V.endif
V.endif
V.if \$ [OSVERSION] >= 700000
V
V
VPLATFORMS
V
elif ${OSVERSION} >= 600000

V

PLATFORMS

V= 
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VPLATFORMS

Vplat-freebsd4

Vplat-freebsd6

Vplat-freebsd7
Open Source Used In Cisco VIM 4.2.0
13535
Open Source Used In Cisco VIM 4.2.0  13537

V
V$}
VW
V$}
V
V
V$}

VWRKDIR
p1303
tp1304
a(g138
V]
VW
V\u0000a
p1308
tp1309
a(g138
V$}
p1310
tp1311
a(g100
VSED
p1312
tp1313
a(g138
V]
V$}
V'
V-e
p1316
tp1317
a(g6
V
tp1318
a(g281
V'1s,."$,$,$(PREFIX)/bin/$PYTHON_VERSION),'
p1319
tp1320
Open Source Used In Cisco VIM 4.2.0

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\texttt{\textbackslash u005c\textbackslash u000a}

\texttt{\textbackslash u0005\textbackslash u000a}

\texttt{\textbackslash u0005\textbackslash u000a}

\texttt{\textbackslash u0005\textbackslash u000a}

\texttt{\textbackslash u0005\textbackslash u000a}

\texttt{\textbackslash u0005\textbackslash u000a}

\texttt{\textbackslash u0005\textbackslash u000a}

\texttt{\textbackslash u0005\textbackslash u000a}

\texttt{\textbackslash u0005\textbackslash u000a}

\texttt{\textbackslash u0005\textbackslash u000a}

\texttt{\textbackslash u0005\textbackslash u000a}

\texttt{\textbackslash u0005\textbackslash u000a}

\texttt{\textbackslash u0005\textbackslash u000a}

\texttt{\textbackslash u0005\textbackslash u000a}

\texttt{\textbackslash u0005\textbackslash u000a}

\texttt{\textbackslash u0005\textbackslash u000a}

\texttt{\textbackslash u0005\textbackslash u000a}

\texttt{\textbackslash u0005\textbackslash u000a}

\texttt{\textbackslash u0005\textbackslash u000a}
V
tp1408
at(g6
V-e
p1409
tp1410
at(g6
V
tp1411
at(g262
V\u0005c\u0000a
p1412
tp1413
at(g6
V
p1414
tp1415
at(g281
V's|\u0005c(ASDLGEN.*)\u0005c$$\{TRUE\}|g'
p1416
tp1417
at(g6
V
tp1418
at(g262
V\u0005c\u0000a
p1419
tp1420
at(g6
V
p1421
tp1422
at(g138
V$

V$

V'

V'

V\nMakefile.pre.in

V/M.
V\u000a\u000a
p1430
tp1431
a(g138
V$

p1432
tp1433
a(g100
VREINPLACE_CMD

p1434
tp1435
a(g138
V

p1436
a(g6
V

p1437
a(g6
V-e

p1438
tp1439
a(g6
V

p1440
a(g262
V\u005c

p1441
tp1442
a(g6
V

p1443
tp1444
a(g281
V's|*

p1445
tp1446
a(g6
V

p1447
a(g262
V\u000c\u000a

p1448
tp1449
a(g6
V

p1450
tp1451
a(g138
VPATCH_WRK_SRC

$V$

p1452
tp1453
agt100
VPATCH_WRK_SRC
p1454
tp1455
agt138
V
	
p1456
agt6
V/Makefile.pre.in
p1457
tp1458
agt6
Vu000a\u000a
p1459
tp1460
agt138
VS{
	
p1461
tp1462
agt100
VSED
p1463
tp1464
agt138
V
	
p1465
agt6
V
tp1466
agt6
V-e
p1467
tp1468
agt6
V
	
p1469
agt281
V's|^#!.*|#!${PREFIX}/bin/${PYTHON_VERSION}|'
p1470
tp1471
agt6
V

tp1472
agt262
Vu005c\u000a
V PATCH_WRKSRC
V/Misc/python-config.in
VWRKDIR
V$
Open Source Used In Cisco VIM 4.2.0

---

python

---

VPYTHON_VERSION

---

13546

---

a(g100

---

p1495

---

tp1496

---

a(g138

---

V}

---

tp1497

---

a(g6

---

V-config

---

p1498

---

tp1499

---

a(g6

---

V\u000a

---

p1500

---

tp1501

---

a(g138

---

V${

---

p1502

---

tp1503

---

a(g100

---

VSED

---

p1504

---

tp1505

---

a(g138

---

V}

---

tp1506

---

a(g6

---

V

---

tp1507

---

a(g6

---

V-e

---

p1508

---

tp1509

---

a(g6

---

V

---

tp1510

---

a(g281

---

V'|\^!.*|#!${PREFIX}/bin/${PYTHON_VERSION:S/thon/thon-shared/}|'

---

p1511

---

tp1512

---

a(g6

---

V

---

tp1513

---

a(g262

---

V\u005c\u000a

---

p1514

---

tp1515

---

a(g6

---

Open Source Used In Cisco VIM 4.2.0  13546
V
p1516
tp1517
a[g138
V$

p1518
tp1519
a[g100
VPATCH_WRKSRC
p1520
tp1521
a[g138
V

p1522
a[g6
V/Misc/python-config.in
p1523
tp1524
a[g6
V

p1525
a[g6
V>

p1526
a[g6
V

p1527
a[g138
V$

p1528
tp1529
a[g100
VWRKDIR
p1530
tp1531
a[g138
V

p1532
a[g6
V/

p1533
a[g138
V$

p1534
tp1535
a[g100
VPYTHON_VERSION
p1536
tp1537
tag212
V:
tp1538
tag100
VS
tp1539
tag212
V/thon/thon-shared/

p1540
tp1541
tag138
V}
tp1542
tag6
V-config
p1543
tp1544
tag6
V\u000a\u000a
p1545
tp1546
tag27
V\if defined(WITH_FPECTL) \&\& $\{ARCH\} == i386\u000a
p1547
tp1548
tag6
V
tp1549
tag138
V$

p1550
tp1551
tag100
VMKDIR
p1552
tp1553
tag138
V}
tp1554
tag6
V
tp1555
tag138
V$

p1556
tp1557
tag100
p1579
p1580
a(g138
$V$

V/Modules/Setup.dist

p1582
tp1583
a(g6
$V$

p1585
tp1586
a(g6
$V$

p1588
tp1589
a(g6
$V$

p1592
tp1593
a(g100
VTAR

$p1594$

p1595
a(g138
$V$

$p1596$

p1597
a(g6
$V$

$p1598$

p1599
a(g6
$V$

$p1600$
V}
 p1643
 tp1644
 atg6
 V
 tp1645
 atg138
 V$
 p1646
 tp1647
 atg100
 VPYTHON_WRKSRCP1648
 tp1649
 atg138
 V}
 tp1650
 atg6
 V/Lib
 p1651
 tp1652
 atg6
 V
 tp1653
 atg138
 V$
 p1654
 tp1655
 atg100
 VWRKSRCP1656
 tp1657
 atg138
 V}
 tp1658
 atg6
 V/Lib
 p1659
 tp1660
 atg6
 V\u000a

Open Source Used in Cisco VIM 4.2.0 13553
Open Source Used In Cisco VIM 4.2.0 13554

V's,"LDLIBRARY=\u005c1libpython\$\$\$(VERSION).so,'
V's,"LDLIBRARY=\u005c1-L. -lpython\$\$(VERSION),'

V's,"LDLIBRARY=\u005c1libpython\$\$(VERSION).so,'
Vpre-build:

tp1748
atp1749
V\u000a
tp1750
atp1751
Vcd

tp1752
atp1753
V

tp1754
atp1755
VS{

tp1756
atp1757
V

VSHARED_WRKSRCP1757

tp1758
atp1759
V}
tp1760
atp1761
V

\u005c\u000a

\u005c\u000a

\u005c\u000a

VSETENVP1767

tp1768
atp1769
V}
Vpre-su-install:

for platform in ${PLATFORMS}:

VMKDIR

VPYTHONPREFIX_LIBDIR
VS{
p1916
tp1917
atg100
Vplatform
p1918
tp1919
atg138
V}
tp1920
atg6
V/
tp1921
atg6
V\u0000a
tp1922
atg27
V.endfor\u0000a
p1923
tp1924
atg6
V
tp1925
atg27
V.endfor\u0000a
p1926
tp1927
atg6
V\u0000a
tp1928
atg6
Vpre-install:
p1929
tp1930
atg6
V\u0000a
p1931
tp1932
atg138
VS{
p1933
tp1934
atg100
VCAT
p1935
tp1936
atg138
V}
tp1937
a(g6
V
tp1938
a(g138
V{
tp1939
a(g100
VPLIST_TEMPLATE
tp1940
a(g138
V}
tp1941
a(g6
V
tp1942
a(g138
V|
tp1943
a(g6
V
tp1944
a(g6
V|
tp1945
a(g100
VAWK
p1946
a(g138
V{
tp1947
a(g100
V
tp1948
a(g6
V
tp1949
a(g281
V'{ print $$0; } \n/LIBDIR.*$$/ && !/bad/ { print $$0 "o"; print $$0 "c"; }'
p1950
a(g6
V
a(g281
V'{ print $$0; } \u005c\u0005c\u0005a/\u005cDIR.*\u005c.py$$/ && !/\u005c/bad/ { print $$0 "o"; print $$0 "c"; }'
p1951
a(g6
V
a(g281
V
p1952
a(g6
V
p1953
a(g6
V
p1954
a(g6
V
p1955
a(g6
V
p1956
if openssl 0.9.8 is detected, _sha{256,512} module won't be installed
post-install:
V$}{

VINSTALLED_SCRIPT

V$}{

VINSTALLED_DIR

V$}{

VPYTHON_VERSION
VWRKDIR
p2102
tp2103
at(g138
V{)
tp2104
at(g6
V/
tp2105
at(g138
VS{p2106
at2107
at(g100
VPYTHON_VERSION
p2108
tp2109
at(g212
V:
tp2110
at(g100
VS
tp2111
at(g212
V/thon/thon-shared/
p2112
tp2113
at(g138
V{)
tp2114
at(g6
V-config
p2115
tp2116
at(g6
V
p2117
at(g138
VS{p2118
at(g100
VPREFIX
p2120
tp2121
at(g138
V{)
a(g100
VPYTHON_VERSION
p2145
tp2146
a(g138
V}
tp2147
a(g6
V.so.1
p2148
tp2149
a(g6
V
p2150
a(g262
V\u005c\u000a\u000a
p2151
tp2152
a(g6
V
p2153
tp2154
a(g138
V$

p2155
tp2156
a(g100
VPREFIX
p2157
tp2158
a(g138
V}
tp2159
a(g6
V/lib
p2160
tp2161
a(g6
V\u000a
p2162
tp2163
a(g84
Vcd
p2164
tp2165
a(g6
V
p2166
VPython_VERSION
p2188
tp2189
a\(g138\)
V]
tp2190
a\(g6\)
V.so.1
p2191
tp2192
a\(g6\)
V
p2193
a\(g262\)
V\u005c\u000a
p2194
tp2195
a\(g6\)
V
p2196
tp2197
a\(g6\)
Vlib
p2198
tp2199
a\(g138\)
V$
$p2200
tp2201
a\(g100\)
VPython_VERSION
p2202
tp2203
a\(g138\)
V]
tp2204
a\(g6\)
V.so
p2205
tp2206
a\(g6\)
V\u000a
p2207
tp2208
a\(g138\)
V$
$p2209
tp2210
Open Source Used In Cisco VIM 4.2.0  13581
VSHARED_WRKSRCP
p2254
tp2255
at(g138
V}
tp2256
at(g6
V/
tp2257
at(g138
VS{
p2258
tp2259
at(g100
VPYTHON_VERSION
p2260
tp2261
at(g212
V:
tp2262
at(g100
VS
tp2263
at(g212
V/thon/thon-shared/
p2264
tp2265
at(g138
V}
tp2266
at(g6
V
tp2267
at(g262
V\u005c\u000a\u000a
p2268
tp2269
at(g6
V
p2270
tp2271
at(g138
VS{
p2272
tp2273
at(g100
VPREFIX
tp2275
at(g138
V)
tp2276
at(g6
V/bin
p2277
tp2278
at(g6
V\u000a\u000a
p2279
tp2280
at(g24
V@# additional files installing by ports\u000a
p2281
tp2282
at(g6
V
tp2283
at(g138
V$

p2284
tp2285
at(g100
VINSTALL_SCRIPT
p2286
tp2287
at(g138
V)
tp2288
at(g6
V
tp2289
at(g138
V$

p2290
tp2291
at(g100
VWRKDIR
p2292
tp2293
at(g138
V)
tp2294
at(g6
V/pydoc2.5
p2295
tp2296
Open Source Used in Cisco VIM 4.2.0  13587
VMKDIR
p2486
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VTOOLS
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VPYTHON_WRK
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Python was created in the early 1990s by Guido van Rossum at Stichting 
Mathematisch Centrum (CWI) in the Netherlands as a successor of a 
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includes many contributions from others. The last version released 
from CWI was Python 1.2. In 1995, Guido continued his work on Python 
at the Corporation for National Research Initiatives (CNRI) in Reston, 
Virginia where he released several versions of the software. Python 
1.6 was the last of the versions released by CNRI. In 2000, Guido and 
the Python core development team moved to BeOpen.com to form the 
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1.1087 python3-wrapt 1.11.1 2.el8ost

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1.1088 python3-tempita 0.5.1 20.el8ost

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from setuptools import setup, find_packages
import sys, os

version = '0.5.1'

setup(name='Tempita',
      version=version,
      description="A very small text templating language",
      long_description="Tempita is a small templating language for text substitution.

This isn't meant to be the Next Big Thing in templating; it's just a handy little templating language for when your project outgrows "string.Template" or "%" substitution. It's small, it embeds Python in strings, and it doesn't do much else.

You can read about the `language <http://pythonpaste.org/tempita/#the-language>`_, the `interface <http://pythonpaste.org/tempita/#the-interface>`_, and there's nothing more to learn about it.

You can install from the `svn repository <http://svn.pythonpaste.org/Tempita/trunk#Tempita-dev>` with `easy_install Tempita==dev`.

```
classifiers=[
    'Development Status :: 4 - Beta',
    'Intended Audience :: Developers',
]
License :: OSI Approved :: MIT License,
Topic :: Text Processing,
Programming Language :: Python :: 2,
Programming Language :: Python :: 3,
]
keywords='templating template language html',
author='Ian Bicking',
author_email='ianb@colorstudy.com',
url='http://pythonpaste.org/tempita/',
license='MIT',
packages=['tempita'],
tests_require=['nose'],
test_suite='nose.collector',
include_package_data=True,
zip_safe=True,
use_2to3=True,
)

Found in path(s):
* /opt/cola/permits/1162147319_1620791031.65/0/python-tempita-0.5.1-20.el8ost.src.rpm-cosi-expand-archive-pfvLCX6T/Tempita-0.5.1.tar.gz-cosi-expand-archive-56Fqc9Ql/Tempita-0.5.1/setup.py
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Found in path(s):
* /opt/cola/permits/1162147319_1620791031.65/0/python-tempita-0.5.1-20.el8ost.src.rpm-cosi-expand-archive-pfvLCX6T/python-tempita.spec
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Metadata-Version: 1.0
Name: Tempita
Version: 0.5.1
Summary: A very small text templating language
Home-page: http://pythonpaste.org/tempita/
Author: Ian Bicking
Author-email: ianb@colorstudy.com
License: MIT
Description: Tempita is a small templating language for text substitution.

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<http://pythonpaste.org/tempita/#the-interface>` and there's nothing
more to learn about it.

You can install from the `svn repository
<http://svn.pythonpaste.org/Tempita/trunk#Tempita-dev>`__ with
``easy_install Tempita==dev``.

Keywords: templating template language html
Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: MIT License
Classifier: Topic :: Text Processing
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 3

Found in path(s):
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* /opt/cola/permits/1162147319_1620791031.65/0/python-tempita-0.5.1-20.el8ost.src.rpm-cosi-expand-archive-pfvLCx6T/Tempita-0.5.1.tar.gz-cosi-expand-archive-56Fqc9Ql/Tempita-0.5.1/Tempita.egg-info/PKG-INFO

1.1089 six 1.11.0

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1.1091 python3-django-pyscss 2.0.2 11.el8ost

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1.1094 sg3-utils 1.44 5.el8
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//
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# spdx-license-ids

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## Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm):

```
  npm install spdx-license-ids
```

## [Node.js](https://nodejs.org/) API

### require('spdx-license-ids')

Type: `string[]`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
// => ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...

ids.includes('BSD-3-Clause'); // => true
ids.includes('CC-BY-1.0');   // => true

ids.includes('GPL-3.0');     // => false
```

### require('spdx-license-ids/deprecated')

Type: `string[]`

Deprecated license IDs.

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
// => ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...

deprecatedIds.includes('BSD-3-Clause'); // => false
deprecatedIds.includes('CC-BY-1.0');   // => false

deprecatedIds.includes('GPL-3.0');     // => true
```

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wcwidth.js: JavaScript Porting of Markus Kuhn's wcwidth() Implementation
=======================================================================

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This package is a JavaScript porting of `wcwidth`() implementation
[by Markus Kuhn](http://www.cl.cam.ac.uk/~mgk25/ucs/wcwidth.c).

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'openssl/apps/sess_id.c',
'openssl/apps/smime.c',
'openssl/apps/speed.c',
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Open Source Used In Cisco VIM 4.2.0 13779
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}

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Open Source Used In Cisco VIM 4.2.0 13910
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'openssl/crypto/bn/bn_prime.c',
'openssl/crypto/bn/bn_print.c',
'openssl/crypto/bn/bn_rand.c',
'openssl/crypto/bn/bn_recp.c',
'openssl/crypto/bn/bn_shift.c',
'openssl/crypto/bn/bn_sqr.c',
'openssl/crypto/bn/bn_sqrt.c',
'openssl/crypto/bn/bn_srp.c',
'openssl/crypto/bn/bn_word.c',
'openssl/crypto/bn/bn_x931p.c',
'openssl/crypto/bn/rsaz_exp.c',
'openssl/crypto/buffer/buf_err.c',
'openssl/crypto/buffer/buffer.c',
'openssl/crypto/camellia/cmll_cfb.c',
'openssl/crypto/camellia/cmll_ctr.c',
'openssl/crypto/camellia/cmll_ebc.c',
'openssl/crypto/camellia/cmll_misc.c',
'openssl/crypto/camellia/cmll_ofb.c',
'openssl/crypto/cast/c_cfb64.c',
'openssl/crypto/cast/c_ecb.c',
'openssl/crypto/cast/c_enc.c',
'openssl/crypto/cast/c_ofb64.c',
'openssl/crypto/cast/c_skey.c',
'openssl/crypto/cmac/cm_ameth.c',
'openssl/crypto/cmac/cm_pmeth.c',
'openssl/crypto/cmac/cmac.c',
'openssl/crypto/cms/cms_asn1.c',
'openssl/crypto/cms/cms_att.c',
'openssl/crypto/cms/cms_cd.c',
'openssl/crypto/cms/cms_dd.c',
'openssl/crypto/cms/cms_enc.c',
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'openssl/crypto/cms/cms_err.c',
'openssl/crypto/cms/cms_ess.c',
'openssl/crypto/cms/cms_io.c',
'openssl/crypto/cms/cms_kari.c',
'openssl/crypto/cms/cms_lib.c',
'openssl/crypto/cms/cms_pwri.c',
'openssl/crypto/cms/cms_sd.c',
'openssl/crypto/cms/cms_smime.c',
'openssl/crypto/conf/conf_api.c',
'openssl/crypto/conf/conf_def.c',
'openssl/crypto/conf/conf_err.c',
'openssl/crypto/conf/conf_lib.c',
'openssl/crypto/conf/conf_mall.c',
'openssl/crypto/conf/conf_mod.c',
'openssl/crypto/conf/conf_sap.c',
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openssl/crypto/cpt_err.c,
openssl/crypto/cryptlib.c,
openssl/crypto/ct/ct_b64.c,
openssl/crypto/ct/ct_err.c,
openssl/crypto/ct/ct_log.c,
openssl/crypto/ct/ct_oct.c,
openssl/crypto/ct/ct_policy.c,
openssl/crypto/ct/ct_prn.c,
openssl/crypto/ct/ct_sct.c,
openssl/crypto/ct/ct_sct_ctx.c,
openssl/crypto/ct/ct_vfy.c,
openssl/crypto/ct/ct_x509v3.c,
openssl/crypto/cttype.c,
openssl/crypto/cversion.c,
openssl/crypto/des/cbc_cksym.c,
openssl/crypto/des/cbc_enc.c,
openssl/crypto/des/cfb64ede.c,
openssl/crypto/des/cfb64enc.c,
openssl/crypto/des/cfb_enc.c,
openssl/crypto/des/des_enc.c,
openssl/crypto/des/ecb3_enc.c,
openssl/crypto/des/ecb_enc.c,
openssl/crypto/des/fcrypt.c,
openssl/crypto/des/fcrypt_b.c,
openssl/crypto/des/ofb64ede.c,
openssl/crypto/des/ofb64enc.c,
openssl/crypto/des/ofb_enc.c,
openssl/crypto/des/pcbc_enc.c,
openssl/crypto/des/qud_cksym.c,
openssl/crypto/des/rand_key.c,
openssl/crypto/des/set_key.c,
openssl/crypto/des/str2key.c,
openssl/crypto/des/xcbc_enc.c,
openssl/crypto/dh/dh_ameth.c,
openssl/crypto/dh/dh_asn1.c,
openssl/crypto/dh/dh_check.c,
openssl/crypto/dh/dh_depr.c,
openssl/crypto/dh/dh_err.c,
openssl/crypto/dh/dh_gen.c,
openssl/crypto/dh/dh_kdf.c,
openssl/crypto/dh/dh_key.c,
openssl/crypto/dh/dh_lib.c,
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openssl/crypto/dh/dh_prn.c,
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openssl/crypto/dh/rfc7919.c,
'openssl/crypto/dsa/dsa_ameth.c',
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'openssl/crypto/dsa/dsa_depr.c',
'openssl/crypto/dsa/dsa_err.c',
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'openssl/crypto/dsa/dsa_key.c',
'openssl/crypto/dsa/dsa_lib.c',
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'openssl/crypto/dsa/dsa_ossl.c',
'openssl/crypto/dsa/dsa_pmeth.c',
'openssl/crypto/dsa/dsa_prn.c',
'openssl/crypto/dsa/dsa_sign.c',
'openssl/crypto/dsa/dsa_vrf.c',
'openssl/crypto/dso/dso_dlf.c',
'openssl/crypto/dso/dso_dlffcn.c',
'openssl/crypto/dso/dso_err.c',
'openssl/crypto/dso/dso_lib.c',
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'openssl/crypto/dso/dso_vms.c',
'openssl/crypto/dso/dso_win32.c',
'openssl/crypto/ebcdic.c',
'openssl/crypto/ec/curve25519.c',
'openssl/crypto/ec/curve448/arch_32/f_impl.c',
'openssl/crypto/ec/curve448/curve448.c',
'openssl/crypto/ec/curve448/curve448_tables.c',
'openssl/crypto/ec/curve448/eddsa.c',
'openssl/crypto/ec/curve448/f_generic.c',
'openssl/crypto/ec/curve448/scalar.c',
'openssl/crypto/ec/ec2_oct.c',
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'openssl/crypto/ec/ecdsa_sign.c',
'openssl/crypto/ec/ecdsa_vrf.c',
'openssl/crypto/ec/eck_prn.c',
'openssl/crypto/ec/ecp_mont.c',
'openssl/crypto/ec/ecp_nist.c',
'openssl/crypto/ec/ecp_nistp224.c',
'openssl/crypto/ec/ecp_nistp256.c',
'openssl/crypto/ec/ecp_nistp521.c',
'openssl/crypto/ec/ecp_nistt256.c',
'openssl/crypto/ec/ecp_oct.c',
'openssl/crypto/ec/ecp_smpl.c',
'openssl/crypto/ec/ecx_meth.c',
'openssl/crypto/engine/eng_all.c',
'openssl/crypto/engine/eng_cnf.c',
'openssl/crypto/engine/eng_ctrl.c',
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'openssl/crypto/engine/eng_dyn.c',
'openssl/crypto/engine/eng_err.c',
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'openssl/crypto/engine/eng_lib.c',
'openssl/crypto/engine/eng_list.c',
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'openssl/crypto/engine/eng_rdrand.c',
'openssl/crypto/engine/eng_table.c',
'openssl/crypto/engine/tb_asmnth.c',
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'openssl/crypto/engine/tb_dh.c',
'openssl/crypto/engine/tb_digest.c',
'openssl/crypto/engine/tb_dsa.c',
'openssl/crypto/engine/tb_eckey.c',
'openssl/crypto/engine/tb_pkmeth.c',
'openssl/crypto/engine/tb_rand.c',
'openssl/crypto/engine/tb_rsa.c',
'openssl/crypto/err/err.c',
'openssl/crypto/err/err_all.c',
'openssl/crypto/err/err_prn.c',
'openssl/crypto/evp/bio_b64.c',
'openssl/crypto/evp/bio_enc.c',
'openssl/crypto/evp/bio_md.c',
'openssl/crypto/evp/bio_ok.c',
'openssl/crypto/evp/c_allc.c',
'openssl/crypto/evp/c_alld.c',
'openssl/crypto/evp/cmeth_lib.c',
'openssl/crypto/evp/digest.c',
'openssl/crypto/evp/e_aes.c',
'openssl/crypto/evp/e_aes_cbc_hmac_sha1.c',
'openssl/crypto/evp/e_aes_cbc_hmac_sha256.c',

Open Source Used In Cisco VIM 4.2.0 13914
openssl/crypto/evp/e_aria.c,
openssl/crypto/evp/e_bf.c,
openssl/crypto/evp/e_camellia.c,
openssl/crypto/evp/e_cast.c,
openssl/crypto/evp/e_chacha20_poly1305.c,
openssl/crypto/evp/e_des.c,
openssl/crypto/evp/e_des3.c,
openssl/crypto/evp/e_idea.c,
openssl/crypto/evp/e_null.c,
openssl/crypto/evp/e_old.c,
openssl/crypto/evp/e_rc2.c,
openssl/crypto/evp/e_rc4.c,
openssl/crypto/evp/e_rc4_hmac_md5.c,
openssl/crypto/evp/e_rc5.c,
openssl/crypto/evp/e_seed.c,
openssl/crypto/evp/e_sm4.c,
openssl/crypto/evp/e_xcbc_d.c,
openssl/crypto/evp/encode.c,
openssl/crypto/evp/evp_cnf.c,
openssl/crypto/evp/evp_enc.c,
openssl/crypto/evp/evp_err.c,
openssl/crypto/evp/evp_key.c,
openssl/crypto/evp/evp_lib.c,
openssl/crypto/evp/evp_pbe.c,
openssl/crypto/evp/evp_pkey.c,
openssl/crypto/evp/m_md2.c,
openssl/crypto/evp/m_md4.c,
openssl/crypto/evp/m_md5.c,
openssl/crypto/evp/m_md5_sha1.c,
openssl/crypto/evp/m_mdc2.c,
openssl/crypto/evp/m_null.c,
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openssl/crypto/evp/m_sha3.c,
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openssl/crypto/evp/m_wp.c,
openssl/crypto/evp/names.c,
openssl/crypto/evp/p5_crypt.c,
openssl/crypto/evp/p5_crypt2.c,
openssl/crypto/evp/p_dec.c,
openssl/crypto/evp/p_enc.c,
openssl/crypto/evp/p_lib.c,
openssl/crypto/evp/p_open.c,
openssl/crypto/evp/p_seal.c,
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openssl/crypto/evp/pmeth_gn.c',
openssl/crypto/evp/pmeth_lib.c',
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openssl/crypto/idea/i_ofb64.c',
openssl/crypto/idea/i_skey.c',
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openssl/crypto/kdf/kdf_err.c',
openssl/crypto/kdf/scrypt.c',
openssl/crypto/kdf/tls1_prf.c',
openssl/crypto/lhash/lh_stats.c',
openssl/crypto/lhash/lhash.c',
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openssl/crypto/md4/md4_one.c',
openssl/crypto/md5/md5_dgst.c',
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openssl/crypto/mdc2/mdc2dgst.c',
openssl/crypto/mem.c',
openssl/crypto/mem_dbg.c',
openssl/crypto/mem_sec.c',
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openssl/crypto/o_fopen.c',
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openssl/crypto/o_str.c',
openssl/crypto/o_time.c',
openssl/crypto/objects/o_names.c',
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openssl/crypto/objects/obj_err.c',
openssl/crypto/objects/obj_lib.c',
'openssl/crypto/poly1305/poly1305_pmeth.c',
'openssl/crypto/rand/drbg_ctr.c',
'openssl/crypto/rand/drbg_lib.c',
'openssl/crypto/rand/rand_egd.c',
'openssl/crypto/rand/rand_err.c',
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'openssl/crypto/rand/rand_win.c',
'openssl/crypto/rand/randfile.c',
'openssl/crypto/rc2/rc2_cbc.c',
'openssl/crypto/rc2/rc2_ecb.c',
'openssl/crypto/rc2/rc2_skey.c',
'openssl/crypto/rc2/rc2ofb64.c',
'openssl/crypto/rc2/rc2ofb64.c',
'openssl/crypto/ripemd/rmd_dgst.c',
'openssl/crypto/ripemd/rmd_one.c',
'openssl/crypto/rsa/rsa_ameth.c',
'openssl/crypto/rsa/rsa_asn1.c',
'openssl/crypto/rsa/rsa_chk.c',
'openssl/crypto/rsa/rsa_crpt.c',
'openssl/crypto/rsa/rsa_depr.c',
'openssl/crypto/rsa/rsa_err.c',
'openssl/crypto/rsa/rsa_gen.c',
'openssl/crypto/rsa/rsa_lib.c',
'openssl/crypto/rsa/rsa_meth.c',
'openssl/crypto/rsa/rsa_mp.c',
'openssl/crypto/rsa/rsa_none.c',
'openssl/crypto/rsa/rsa_oaep.c',
'openssl/crypto/rsa/rsa_ossl.c',
'openssl/crypto/rsa/rsa_pk1.c',
'openssl/crypto/rsa/rsa_pmeth.c',
'openssl/crypto/rsa/rsa_prn.c',
'openssl/crypto/rsa/rsa_pss.c',
'openssl/crypto/rsa/rsa_saos.c',
'openssl/crypto/rsa/rsa_sign.c',
'openssl/crypto/rsa/rsa_ssl.c',
'openssl/crypto/rsa/rsa_x931.c',
'openssl/crypto/rsa/rsa_x931g.c',
'openssl/crypto/seed/seed.c',
'openssl/crypto/seed/seed_cbc.c',
'openssl/crypto/seed/seed_cfb.c',
'openssl/crypto/seed/seed_ecb.c',
'openssl/crypto/seed/seed_ofb.c',
'openssl/crypto/sha/sha1.c',
'openssl/crypto/sha/sha1_one.c',
'openssl/crypto/sha/sha1_dgst.c',
'openssl/crypto/sha/sha256.c',
'openssl/crypto/sha/sha512.c',

Open Source Used In Cisco VIM 4.2.0 13918
'openssl/crypto/x509v3/v3_genn.c',
'openssl/crypto/x509v3/v3_ia5.c',
'openssl/crypto/x509v3/v3_info.c',
'openssl/crypto/x509v3/v3_int.c',
'openssl/crypto/x509v3/v3_lib.c',
'openssl/crypto/x509v3/v3_ncons.c',
'openssl/crypto/x509v3/v3_pci.c',
'openssl/crypto/x509v3/v3_pcia.c',
'openssl/crypto/x509v3/v3_pcons.c',
'openssl/crypto/x509v3/v3_pk.c',
'openssl/crypto/x509v3/v3_pku.c',
'openssl/crypto/x509v3/v3_pmaps.c',
'openssl/crypto/x509v3/v3_prn.c',
'openssl/crypto/x509v3/v3_purp.c',
'openssl/crypto/x509v3/v3_skey.c',
'openssl/crypto/x509v3/v3_sxnet.c',
'openssl/crypto/x509v3/v3_tlsf.c',
'openssl/crypto/x509v3/v3_utl.c',
'openssl/crypto/x509v3/v3err.c',
'openssl/engines/e_capi.c',
'openssl/engines/e_padlock.c',
',
'openssl_sources_BSD-x86_64': [
'./config/archs/BSD-x86_64/asm/crypto/aes/aesni-mb-x86_64.s',
'./config/archs/BSD-x86_64/asm/crypto/aes/aesni-sha1-x86_64.s',
'./config/archs/BSD-x86_64/asm/crypto/aes/aesni-sha256-x86_64.s',
'./config/archs/BSD-x86_64/asm/crypto/aes/aesni-x86_64.s',
'./config/archs/BSD-x86_64/asm/crypto/aes/vpaes-x86_64.s',
'./config/archs/BSD-x86_64/asm/crypto/bn/rsa3-avx2.s',
'./config/archs/BSD-x86_64/asm/crypto/bn/rsa3-x86_64.s',
'./config/archs/BSD-x86_64/asm/crypto/camellia/cmll-x86_64.s',
'./config/archs/BSD-x86_64/asm/crypto/chacha/chacha-x86_64.s',
'./config/archs/BSD-x86_64/asm/crypto/ec/ecp_nistz256-x86_64.s',
'./config/archs/BSD-x86_64/asm/crypto/ec/x25519-x86_64.s',
'./config/archs/BSD-x86_64/asm/crypto/md5/md5-x86_64.s',
'./config/archs/BSD-x86_64/asm/crypto/modes/aesni-gcm-x86_64.s',
'./config/archs/BSD-x86_64/asm/crypto/modes/ghash-x86_64.s',
'./config/archs/BSD-x86_64/asm/crypto/poly1305/poly1305-x86_64.s',
'./config/archs/BSD-x86_64/asm/crypto/rc4/rc4-md5-x86_64.s',
'./config/archs/BSD-x86_64/asm/crypto/sha/keccak1600-x86_64.s',
'./config/archs/BSD-x86_64/asm/crypto/sha/sha1-mb-x86_64.s',
'./config/archs/BSD-x86_64/asm/crypto/sha/sha1-x86_64.s',
'./config/archs/BSD-x86_64/asm/crypto/sha/sha256-mb-x86_64.s',
'./config/archs/BSD-x86_64/asm/crypto/sha/sha256-x86_64.s',
'./config/archs/BSD-x86_64/asm/crypto/sha/sha512-x86_64.s',
]
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'.config/archs/BSD-x86_64/asm/crypto/whirlpool/wp-x86_64.s',
'.config/archs/BSD-x86_64/asm/crypto/x86_64cpiuid.s',
'.config/archs/BSD-x86_64/asm/engines/e_padlock-x86_64.s',
],
'openssl_defines_BSD-x86_64': [
'NDEBUG',
'L_ENDIAN',
'OPENSSL_PIC',
'OPENSSL_CPUID_OBJ',
'OPENSSL_IA32_SSE2',
'OPENSSL_BN_ASM_MONT',
'OPENSSL_BN_ASM_MONT5',
'OPENSSL_BN_ASM_GF2m',
'SHA1_ASM',
'SHA256_ASM',
'SHA512_ASM',
'KECCAK1600_ASM',
'RC4_ASM',
'MD5_ASM',
'AESNI_ASM',
'VPAES_ASM',
'GHASH_ASM',
'ECP_NISTZ256_ASM',
'X25519_ASM',
'POLY1305_ASM',
],
'openssl_cflags_BSD-x86_64': [
'-Wa,--noexecstack',
'-Wall -O3',
'-pthread',
'-Wall -O3',
],
'openssl_ex_libs_BSD-x86_64': ['-pthread',
],
',include_dirs': [
 '.',
 './include',
 './crypto',
 './crypto/include/internal',
],
'defines': ['@openssl_defines_BSD-x86_64'],
'cflags': ['@openssl_cflags_BSD-x86_64'],
'libraries': ['@openssl_ex_libs_BSD-x86_64'],
'sources': ['@openssl_sources', '@openssl_sources_BSD-x86_64'],
}
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validate-npm-package-license
================================

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```javascript
var assert = require('assert');
var validSPDXExpression = {
  validForNewPackages: true,
  validForOldPackages: true,
  spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```

The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(
  valid('Apache 2.0'),
  {
    validForOldPackages: false,
    validForNewPackages: false,
    warnings: [
      'license should be ' +
      'a valid SPDX license expression (without "LicenseRef"), ' +
      '"UNLICENSED", or ' +
      '"SEE LICENSE IN <filename>";
      'license is similar to the valid expression "Apache-2.0"'
    ]
  }
);
```

SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
```
assert.deepEqual(
  valid('GPL-3.0-only OR BSD-2-Clause'),
  validSPDXExpression
);
```
... except if they contain `LicenseRef`:
```
```
var warningAboutLicenseRef = {
  validForOldPackages: false,
  validForNewPackages: false,
  spdx: true,
  warnings: [
    'license should be ' +
    'a valid SPDX license expression (without "LicenseRef"), ' +
    '"UNLICENSED", or ' +
    '"SEE LICENSE IN <filename>"',
  ],
};
```
```
assert.deepEqual(
  valid('LicenseRef-Made-Up'),
  warningAboutLicenseRef
);
```
```
assert.deepEqual(
  valid('(MIT OR LicenseRef-Made-Up)'),
  warningAboutLicenseRef
);
```
```
... javascript

assert.deepEqual(
  valid('SEE LICENSE IN LICENSE.txt'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'LICENSE.txt'
  }
);
```
```
assert.deepEqual(
  valid('SEE LICENSE IN license.md'),
  {
```
validForNewPackages: true,
validForOldPackages: true,
inFile: 'license.md'
}
);
```javascript
```

If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
  validForNewPackages: true,
  validForOldPackages: true,
  unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```javascript

#### 1.1103 timedatex 0.5 3.el8

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Version 2, June 1991

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1.1105 xinetd 2.3.15 24.el8

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

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

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

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

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

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

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

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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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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
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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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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.)

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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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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  being @var{list}.
@end group
@end smallexample
```

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

1.1118 perl-getopt-long 2.50 4.el8
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1.1119 python3-xstatic-termjs 0.0.7.0 5.el8ost

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Found in path(s):
* /opt/cola/permits/1162152469_1620790761.49/0/python-XStatic-termjs-0.0.7.0-5.el8ost.src.rpm-cosi-expand-archive-YL0g1FSy/XStatic-term.js-0.0.7.0.tar.gz-cosi-expand-archive-tcGOGCYQ/XStatic-term.js-0.0.7.0/xstatic/pkg/termjs/__init__.py

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Metadata-Version: 1.1
Name: XStatic-term.js
Version: 0.0.7.0
Summary: term.js 0.0.7 (XStatic packaging standard)
Home-page: https://github.com/chjj/term.js
Author: Thomas Kluyver
Author-email: thomas@kluyver.me.uk
License: (same as term.js)
Description: XStatic-termjs
-------------

term.js javascript library packaged for setuptools (easy_install) / pip.

* term.js project: `Github chjj/term.js <https://github.com/chjj/term.js>`_
* XStatic package: `Github takluyver/XStatic-termjs <https://github.com/takluyver/XStatic-termjs>`_

This package is intended to be used by **any** project that needs these files.

It intentionally does **not** provide any extra code except some metadata
**not** has any extra requirements. You MAY use some minimal support code from
the XStatic base package, if you like.

You can find more info about the xstatic packaging way in the package `XStatic`.

Keywords: termjs xstatic
Platform: any
Classifier: Environment :: Web Environment
Classifier: License :: OSI Approved :: MIT License

Found in path(s):
* /opt/cola/permits/1162152469_1620790761.49/0/python-XStatic-termjs-0.0.7.0-5.el8ost.src.rpm-cosi-expand-archive-YL0g1FSy/XStatic-term.js-0.0.7.0.tar.gz-cosi-expand-archive-tcGOGCYQ/XStatic-term.js-0.0.7.0/XStatic_term.js.egg-info/PKG-INFO
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/**
 * term.js - an xterm emulator
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 * other features.
 */

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* /opt/cola/permits/1162152469_1620790761.49/0/python-XStatic-termjs-0.0.7.0-5.el8ost.src.rpm-cosi-expand-archive-YL0g1FSy/XStatic-term.js-0.0.7.0.tar.gz-cosi-expand-archive-tcGOGCYQ/XStatic-term.js-0.0.7.0/pkg/xstatic/pkg/termjs/data/term.js

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* /opt/cola/permits/1162152469_1620790761.49/0/python-XStatic-termjs-0.0.7.0-5.el8ost.src.rpm-cosi-expand-archive-YL0g1FSy/python-XStatic-termjs.spec
1.1120 openstack-keystone 16.0.2
1.20201114021922.el8ost
1.1120.1 Available under license:

---

fixes:
- >
[bug 1535878 <https://bugs.launchpad.net/keystone/+bug/1535878>^__]

Originally, to perform GET /projects/{project_id}, the provided policy files required a user to have at least project admin level of permission.
They have been updated to allow it to be performed by any user who has a role on the project.

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1.1121.1 libconfig 1.5 9.el8

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1.1124 python3-passlib 1.7.0 5.el8ost

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modified April 2001
by Iris Van den Broeke, Daniel Deville

modified Aug 2005
by Greg Wilkins (gregw)

converted to python Jun 2009
by Eli Collins

jBCrypt
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```
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--------

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```

1.1125 python3-xstatic-font-awesome 4.7.0.0
6.el8ost

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  # font awesome is licensed under SIL 1.1.
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  Found in path(s):
  * /opt/cola/permits/1162150337_1620792766.03/0/python-XStatic-Font-Awesome-4.7.0.0-6.el8ost.src.rpm-cosi-expand-archive-MduflACg/python-XStatic-Font-Awesome.spec
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  .#$fa-css-prefix]-drivers-license:before,

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  * /opt/cola/permits/1162150337_1620792766.03/0/python-XStatic-Font-Awesome-4.7.0.0-6.el8ost.src.rpm-cosi-expand-archive-MduflACg/XStatic-Font-Awesome-4.7.0.0.tar.gz-cosi-expand-archive-c9VS113n/XStatic-Font-Awesome-4.7.0.0/xstatic/pkg/fontAwesome/data/scss/_icons.scss

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Metadata-Version: 1.0  
Name: XStatic-Font-Awesome  
Version: 4.7.0.0  
Summary: Font-Awesome 4.7.0 (XStatic packaging standard)  
Home-page: https://fortawesome.github.io/Font-Awesome/  
Author: Rob Cresswell  
Author-email: robert.cresswell@outlook.com  
License: SIL OFL 1.1  
Description: XStatic-Font-Awesome  

----------

Font Awesome icons packaged for setuptools (easy_install) / pip.

This package is intended to be used by **any** project that needs these files.

It intentionally does **not** provide any extra code except some metadata
**nor** has any extra requirements. You MAY use some minimal support code from
the XStatic base package, if you like.

You can find more info about the xstatic packaging way in the package `XStatic`.

Keywords: font_awesome xstatic  
Platform: any

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* /opt/cola/permits/1162150337_1620792766.03/0/python-XStatic-Font-Awesome-4.7.0.0-6.el8ost.src.rpm-cosi-expand-archive-MduflACg/XStatic-Font-Awesome-4.7.0.0.tar.gz-cosi-expand-archive-c9VS113n/XStatic-Font-Awesome-4.7.0.0/XStatic_Font_Awesome.egg-info/PKG-INFO
* /opt/cola/permits/1162150337_1620792766.03/0/python-XStatic-Font-Awesome-4.7.0.0-6.el8ost.src.rpm-cosi-expand-archive-MduflACg/XStatic-Font-Awesome-4.7.0.0.tar.gz-cosi-expand-archive-c9VS113n/XStatic-Font-Awesome-4.7.0.0/PKG-INFO

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// Variables
// --------------------------

@fa-font-path:        "../fonts";  
@fa-font-size-base:   14px;  
@fa-line-height-base: 1;  
//@fa-font-path:        "//netdna.bootstrapcdn.com/font-awesome/4.7.0/fonts"; // for referencing Bootstrap CDN font files directly  
@fa-css-prefix:       fa;  
@fa-version:          "4.7.0";  
@fa-inverse:          #fff;  
@fa-border-color:     #eee;
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 */

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* /opt/cola/permits/1162150337_1620792766.03/0/python-XStatic-Font-Awesome-4.7.0.0-6.el8ost.src.rpm-cosi-expand-archive-MduflACg/XStatic-Font-Awesome-4.7.0.0.tar.gz-cosi-expand-archive-c9VS113n/XStatic-Font-Awesome-4.7.0.0/xstatic/pkg/font_awesome/data/css/font-awesome.min.css
* /opt/cola/permits/1162150337_1620792766.03/0/python-XStatic-Font-Awesome-4.7.0.0-6.el8ost.src.rpm-cosi-expand-archive-MduflACg/XStatic-Font-Awesome-4.7.0.0.tar.gz-cosi-expand-archive-c9VS113n/XStatic-Font-Awesome-4.7.0.0/xstatic/pkg/font_awesome/data/less/font-awesome.less
* /opt/cola/permits/1162150337_1620792766.03/0/python-XStatic-Font-Awesome-4.7.0.0-6.el8ost.src.rpm-cosi-expand-archive-MduflACg/XStatic-Font-Awesome-4.7.0.0.tar.gz-cosi-expand-archive-c9VS113n/XStatic-Font-Awesome-4.7.0.0/xstatic/pkg/font_awesome/data/scss/font-awesome.scss

1.1126 yaml v2.2.2 51d6538

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1.1127 intel-cmt-cat 3.1.1 2.el8ost

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    src/preproc/grn/gprint.h
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    src/preproc/grn/hgraph.cpp
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    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
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. The -mdoc macro set, using the BSD license.

  tmac/doc.tmac
  tmac/doc-old.tmac
  tmac/doc-common
  tmac/doc-ditroff
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  tmac/doc-syms
  tmac/groff_mdoc.man

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  tmac/e.tmac
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ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

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. The file `tmac/hyphen.fr' contains the same patterns as the file `frhyph.tex' (for TeX), which can be found at

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* /opt/cola/permits/1162150886_1620791917.35/0/lua-5.3.4-11.el8-1.src.rpm-cosi-expand-archive-dNVkL9Wp/lua-5.3.4.tar.gz-cosi-expand-archive-TQehWToV/lua-5.3.4/doc/manual.html
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1.1138 libtdb 1.4.2 2.el8

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