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1.3 libasyncns 0.8

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1.5 perl 1.34-416.el8

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

---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>
  - "Development questions, bug reports, and patches should be sent to the
    Module-Build mailing list at <module-build@perl.org>.,"'
built_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
license: http://dev.perl.org/licenses/
repository: http://github.com/dagolden/module-build/
version: 3

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=head1 NAME
copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;
my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}
1.6 glibc 2.30-r0

1.6.1 Available under license:
@c The GNU Lesser General Public License.
@c Center Version 2.1, February 1999

@c This file is intended to be included within another document,
c@c hence no sectioning command or @node.

display
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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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@enumerate
@item
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@enumerate
@item
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with the Library, with the complete machine-readable "work that
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@enumerate
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@subheading END OF TERMS AND CONDITIONS

@page
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In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) 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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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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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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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
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1.8 findutils 4.5.11 5.el7

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    Licenses["freebsd"] = License{
        Name: "Simplified BSD License",
        PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
            "2 clause bsd", "simplified bsd license"},
        Header: `All rights reserved.

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func initBsdClause3() {
 Licenses["bsd"] = License{
 Name: "NewBSD",
 PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
 Header: "All rights reserved."
}

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Licenses["gpl2"] = License{
    Name: "GNU General Public License 2.0",
    PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
    Header: `This program is free software; you can redistribute it and/or
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package cmd

import (  
    "strings"
    "time"

    "github.com/spf13/viper"
)

var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of  
// the license, its possible matches (on the command line as given to cobra),  
// the header to be used with each file on the file's creating, and the text  
// of the license  
type License struct {  
    Name            string   // The type of license in use  
    PossibleMatches []string // Similar names to guess  
    Text            string   // License text data  
    Header          string   // License header for source files  
}

func init() {  
    // Allows a user to not use a license.  
    Licenses["none"] = License{"None", []string{"none", "false"}, "", ""}

    initApache2()  
    initMit()  
    initBsdClause3()  
    initBsdClause2()  
    initGpl2()  
    initGpl3()  
    initLgpl()  
    initAgpl()  
}

// getLicense returns license specified by user in flag or in config.  
// If user didn't specify the license, it returns Apache License 2.0.  
//  
// TODO: Inspect project for existing license
func getLicense() License {
    // If explicitly flagged, use that.
    if userLicense != "" {
        return findLicense(userLicense)
    }

    // If user wants to have custom license, use that.
    if viper.IsSet("license.header") || viper.IsSet("license.text") {
        return License{
            Header: viper.GetString("license.header"),
            Text: viper.GetString("license.text")
        }
    }

    // If user wants to have built-in license, use that.
    if viper.IsSet("license") {
        return findLicense(viper.GetString("license"))
    }

    // If user didn't set any license, use Apache 2.0 by default.
    return Licenses["apache"]
}

func copyrightLine() string {
    author := viper.GetString("author")

    year := viper.GetString("year") // For tests.
    if year == "" {
        year = time.Now().Format("2006")
    }

    return "Copyright " + year + " " + author
}

// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {
    found := matchLicense(name)
    if found == "" {
        err("unknown license: " + name)
    }
    return Licenses[found]
}

// matchLicense compares the given a license name
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank string or it didn't find
// then appropriate match to name.
func matchLicense(name string) string {

if name == "" {
    return ""
}

for key, lic := range Licenses {
    for _, match := range lic.PossibleMatches {
        if strings.EqualFold(name, match) {
            return key
        }
    }
}

return ""

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package cmd

func initGpl3() {
    Licenses["gpl3"] = License{
        Name: "GNU General Public License 3.0",
        PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
        Header: `This program is free software: you can redistribute it and/or modify
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        (at your option) any later version.

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Public License instead of this License. But first, please read
`
`
}
}
package cmd

func initLGPL() {
Licenses["lgpl"] = License{
Name: "GNU Lesser General Public License",
PossibleMatches: []string{"lgpl", "lesser gpl", "gnu lgpl"},
Header: `
This program is free software: you can redistribute it and/or modify
it under the terms of the GNU Lesser General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

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`,
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```

```

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```
package cmd

func initAgpl() {
 Licenses["agpl"] = License{
 Name: "GNU Affero General Public License",
 PossibleMatches: []string{"agpl", "affero gpl", "gnu agpl"},
 Header: `This program is free software: you can redistribute it and/or modify
 it under the terms of the GNU Affero General Public License as published by
 the Free Software Foundation, either version 3 of the License, or
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package cmd

func initApache2() {
    Licenses["apache"] = License{
        Name: "Apache 2.0",
        PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
        Header: `Licensed under the Apache License, Version 2.0 (the "License");
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func initMit() {
    Licenses["mit"] = License{
        Name:            "MIT License",
        PossibleMatches: []string{"mit"},
        Header: `Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

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**1.19 zstd 1.4.0**

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c0021b5b6.

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 piostream 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.

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1.21 stack v1.8.0
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1.23 golang-snappy v0.0.0-20180518054509-2e65f85255db

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1.24 go-openapi-strfmt v0.20.0

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2.2.6.RELEASE

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

---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the 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
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

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The End

#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.
use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now') {
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else {
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";
    # The copyright message is the first paragraph:
    local $/ = ";
    my $copyright_msg = <$readme>;
    my ($year) = $copyright_msg =~ /.*(\d{4,})/s
    or die "Year not found in README copyright message '$copyright_msg'";
    $year;
}
sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b\d\{4,\}/i
    or die "Copyright statement not found in perl -v output '$output'";

    $year;
}

1.36 python-pip 9.0.3-16.el8
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1.37 queue v1.1.0
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1.38 sensible-utils 0.0.9
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1.40 trousers 0.3.14 2.el7

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1.42 x-sys v0.0.0-20200302150141-5c8b2ff67527

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1.43 easyjson v0.7.6
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1.46 dgryski-go-metro v0.0.0-
20180109044635-280f6062b5bc
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1.50 openssl 1.1.1d

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 * @param access the method's access flags (see {@link Opcodes}).
 * @param name the method's name.
 * @param descriptor the method's descriptor (see {@link Type}).
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* Instead, they must use the {@link #LocalVariablesSorter(int, int, String, MethodVisitor)}
* version.
* @param access access flags of the adapted method.
* @param descriptor the method's descriptor (see {@link Type}).
* @param methodVisitor the method visitor to which this adapter delegates calls.
* @throws IllegalStateException if a subclass calls this constructor.
*/

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*/opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/TrustManagerFactoryWrapper.java
*/opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
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*/opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/SslMasterKeyHandler.java
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  jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
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* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/package-info.java
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* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/timeout/ReadTimeoutException.java
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* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java

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* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/OpenSslSessionContext.java
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* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/SslProvider.java
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* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
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* /opt/cola/permits/1161299299_1620637207.24/0/camel-jaxb-3-0-1-sources-jar/org/apache/camel/converter/jaxb/FallbackTypeConverter.java
* /opt/cola/permits/1161299299_1620637207.24/0/camel-jaxb-3-0-1-sources-jar/org/apache/camel/converter/jaxb/NonXmlFilterReader.java
* /opt/cola/permits/1161299299_1620637207.24/0/camel-jaxb-3-0-1-sources-jar/org/apache/camel/converter/jaxb/JaxbConstants.java
* /opt/cola/permits/1161299299_1620637207.24/0/camel-jaxb-3-0-1-sources-jar/org/apache/camel/converter/jaxb/NonXmlCharFilterer.java
* /opt/cola/permits/1161299299_1620637207.24/0/camel-jaxb-3-0-1-sources-jar/org/apache/camel/converter/jaxb/JaxbXmlStreamWriterWrapper.java
* /opt/cola/permits/1161299299_1620637207.24/0/camel-jaxb-3-0-1-sources-jar/org/apache/camel/converter/jaxb/JaxbHelper.java
* /opt/cola/permits/1161299299_1620637207.24/0/camel-jaxb-3-0-1-sources-jar/org/apache/camel/converter/jaxb/mapper/SunJAXB21NamespacePrefixMapper.java
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* /opt/cola/permits/1161299299_1620637207.24/0/camel-jaxb-3-0-1-sources-jar/org/apache/camel/converter/jaxb/NoopXmlStreamWriterWrapper.java
* /opt/cola/permits/1161299299_1620637207.24/0/camel-jaxb-3-0-1-sources-jar/org/apache/camel/converter/jaxb/FilteringXmlStreamWriter.java
* /opt/cola/permits/1161299299_1620637207.24/0/camel-jaxb-3-0-1-sources-jar/org/apache/camel/converter/jaxb/NamespacePrefixMapperFactory.java

1.65 lucene 7.7.0

1.65.1 Available under license:

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If you would like to comment, improve, critisize the project please
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jackson-jq
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When upgrading Lucene-Java Jars, remember to generate new Analysis factories for any new Tokenizers or TokenFilters. See the wiki for details...

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Woodstox is an XML-parser that allows parsing of XML documents in so-called
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It specifically implements StAX 1.0 API:


which defines what is closest to being the J2xE standard for XML pull parsers.

Woodstox was originally written by Tatu Saloranta (<tatu.saloranta@iki.fi>).

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Janino - An embedded Java[TM] compiler

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XZ for Java 1.0 (2011-10-22)

http://tukaani.org/xz/java.html

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You might want to interpret some document fields in more than one way. Solr has a mechanism for making copies of fields so that you can apply several distinct field types to a single piece of incoming information.

The name of the field you want to copy is the _source_, and the name of the copy is the _destination_. In `schema.xml`, it's very simple to make copies of fields:

[source,xml]
----
<copyField source="cat" dest="text" maxChars="30000" />
----

In this example, we want Solr to copy the `cat` field to a field named `text`. Fields are copied before `analysis` is done, meaning you can have two fields with identical original content, but which use different analysis chains and are stored in the index differently.

In the example above, if the `text` destination field has data of its own in the input documents, the contents of the `cat` field will be added as additional values just as if all of the values had originally been specified by the client. Remember to configure your fields as `multivalued="true"` if they will ultimately get multiple values (either from a multivalued source or from multiple `copyField` directives).

A common usage for this functionality is to create a single "search" field that will serve as the default query field when users or clients do not specify a field to query. For example, `title`, `author`, `keywords`, and `body` may all be fields that should be searched by default, with copy field rules for each field to copy to a `catchall` field (for example, it could be named anything). Later you can set a rule in `solrconfig.xml` to search the `catchall` field by...
default. One caveat to this is your index will grow when using copy fields. However, whether this becomes problematic for you and the final size will depend on the number of fields being copied, the number of destination fields being copied to, the analysis in use, and the available disk space.

The `maxChars` parameter, an `int` parameter, establishes an upper limit for the number of characters to be copied from the source value when constructing the value added to the destination field. This limit is useful for situations in which you want to copy some data from the source field, but also control the size of index files.

Both the source and the destination of `copyField` can contain either leading or trailing asterisks, which will match anything. For example, the following line will copy the contents of all incoming fields that match the wildcard pattern `*_t` to the text field:

[source,xml]
----
<copyField source="*_t" dest="text" maxChars="25000" />
----

[IMPORTANT]
=====
The `copyField` command can use a wildcard (*) character in the `dest` parameter only if the `source` parameter contains one as well. `copyField` uses the matching glob from the source field for the `dest` field name into which the source content is copied.
=====

Copying is done at the stream source level and no copy feeds into another copy. This means that copy fields cannot be chained i.e., you cannot copy from `here` to `there` and then from `there` to `elsewhere`. However, the same source field can be copied to multiple destination fields:

[source,xml]
----
<copyField source="here" dest="there"/>
<copyField source="here" dest="elsewhere"/>
----

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import java.util.Collection;
import java.util.Collections;
import java.util.HashSet;
import java.util.LinkedHashMap;
import java.util.List;
import java.util.Map;
import java.util.Set;
import java.util.function.Function;
import java.util.regex.Pattern;
import java.util.stream.Collectors;
import com.google.common.collect.ImmutableSet;
import org.apache.solr.common.SolrException;
import org.apache.solr.common.util.Utils;
import static java.util.Collections.singleton;
import static java.util.Collections.singletonList;
import static org.apache.solr.common.params.CommonParams.NAME;

class Permission {
    String name;
    Set<String> path, role, collections, method;
    Map<String, Function<String[], Boolean>> params;
    PermissionNameProvider.Name wellknownName;
    Map originalConfig;

private Permission() {
}

static Permission load(Map m) {
    Permission p = new Permission();
    p.originalConfig = new LinkedHashMap<>(m);
    String name = (String) m.get(NAME);
    if (!m.containsKey("role")) throw new SolrException(SolrException.ErrorCode.BAD_REQUEST, "role not specified");
    p.role = readValueAsSet(m, "role");
    if (PermissionNameProvider.Name.get(name)!= null) {
        p.wellknownName = PermissionNameProvider.Name.get(name);
    }
    HashSet<String> disAllowed = new HashSet<>(knownKeys);
    disAllowed.remove("role");
    disAllowed.remove(NAME);
    disAllowed.remove("collection");
    disAllowed.remove("index");
    for (String s : disAllowed) {
        if (m.containsKey(s))
            throw new SolrException(SolrException.ErrorCode.BAD_REQUEST, s + " is not a valid key for the permission : " + name);
    }
    p.name = name;
    p.path = readSetSmart(name, m, "path");
    p.collections = readSetSmart(name, m, "collection");
    p.method = readSetSmart(name, m, "method");
    Map<String, Object> paramRules = (Map<String, Object>) m.get("params");
    if (paramRules != null) {
        p.params = new LinkedHashMap<>();
        for (Map.Entry<String, Object> e : paramRules.entrySet()) {
            if (e.getValue() == null) {
                p.params.put(e.getKey(), (String[] val) -> val == null);
            } else {
                List<String> patternStrs = e.getValue() instanceof List ? (List) e.getValue() : singletonList(e.getValue().toString());
                List patterns = patternStrs.stream()
                    .map(it -> it.startsWith("REGEX:"))
                    .collect(Collectors.toList());
                p.params.put(e.getKey(), val -> {
                    if (val == null) return false;
                    for (Object pattern : patterns) {
                        for (String s : val) {
                            ...
```java
if (pattern instanceof String) {
    if (pattern.equals(s)) return true;
} else if (pattern instanceof Pattern) {
    if (((Pattern) pattern).matcher(s).find()) return true;
}
}
return false;
});
}
return p;
}

/**
 * This checks for the defaults available other rules for the keys
 */
 private static Set<String> readSetSmart(String permissionName, Map m, String key) {
    if(PermissionNameProvider.values.containsKey(permissionName) && !m.containsKey(key) &&
        "collection".equals(key)) {
        return PermissionNameProvider.Name.get(permissionName).collName;
    }
    Set<String> set = readValueAsSet(m, key);
    if ("method".equals(key)) {
        if (set != null) {
            for (String s : set) if (!HTTP_METHODS.contains(s)) return null;
        }
    return set;
    }
    return set == null ? singleton(null) : set;
}
/**
 * read a key value as a set. if the value is a single string ,
 * return a singleton set
 *
 * @param m   the map from which to lookup
 * @param key the key with which to do lookup
 */
 static Set<String> readValueAsSet(Map m, String key) {
    Set<String> result = new HashSet<>();
    Object val = m.get(key);
    if (val == null) {
        if("collection".equals(key)) {
            //for collection collection: null means a core admin/ collection admin request
            // otherwise it means a request where collection name is ignored
            return m.containsKey(key) ? singleton(null) : singleton("*");
        }
    }
}
return null;
}
if (val instanceof Collection) {
    Collection list = (Collection) val;
    for (Object o : list) result.add(String.valueOf(o));
} else if (val instanceof String) {
    result.add((String) val);
} else {
    throw new RuntimeException("Bad value for : " + key);
}
return result.isEmpty() ? null : Collections.unmodifiableSet(result);

@Override
public String toString() {
    return Utils.toJSONString(originalConfig);
}

static final Set<String> knownKeys = ImmutableSet.of("collection", "role", "params", "path", "method", "NAME","index");
public static final Set<String> HTTP_METHODS = ImmutableSet.of("GET", "POST", "DELETE", "PUT", "HEAD");

}
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func hasWritePermission(dir *Entry, entry *Entry) bool {
    if dir == nil {
        return false
    }

    if dir.Uid == entry.Uid && dir.Mode&0200 > 0 {
        return true
    }

    if dir.Gid == entry.Gid && dir.Mode&0020 > 0 {
        return true
    }

    if dir.Mode&0002 > 0 {
        return true
    }

    return false
}

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1.70 x-net v0.0.0-20200301022130-244492dfa37a

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Eclipse

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

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

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

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Oracle

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

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

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Oracle OpenJDK

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

* java.sun.security.ssl

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

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

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

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Apache

The following artifacts are ASL2 licensed.

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

------

MortBay

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

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas
Assorted

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cpan/Locale-Maketext-Simple/t/po_with_i_default/en.po
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dist/ExtUtils-Command/*
dist/ExtUtils-Manifest/*
dist/I18N-Collate/*
dist/Safe/*
ext/Fcntl/*
ext/FileCache/*
ext/GDBM_File/*
ext/IPC-Open2/*
ext/IPC-Open3/*
ext/NDBM_File/*
ext/ODBM_File/*
ext/Opcode/*
ext/PerlIO-encoding/*
ext/PerlIO-scalar/*
ext/PerlIO-via/*
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1.81 jetty-http 9.4.24.v20191120

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

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

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

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

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

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Oracle OpenJDK

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* java.sun.security.ssl

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

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

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Apache

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

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MortBay

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

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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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

1.82 sqlite-jdbc 3.23.1

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1.83 sqlite 3.7.17 8.el7
1.83.1 Available under license :

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<html><head>
<meta http-equiv="content-type" content="text/html; charset=UTF-8">
<title>SQLite Copyright</title>
<style type="text/css">
body {
    margin: auto;
    font-family: Verdana, sans-serif;
    padding: 8px 1%;
}

a { color: #044a64 }  
a:visited { color: #734559 }

.logo { position:absolute; margin:3px; }
.tagline {
    float:right;
    text-align:right;
    font-style:italic;
    width:300px;
    margin:12px;
    margin-top:58px;
}

.menubar {
    clear: both;
    border-radius: 8px;
    background: #044a64;
    padding: 0px;
    margin: 0px;
    cell-spacing: 0px;
}
.toolbar {


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1.84 jsr305 1.3.9
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1.85 perl 5.30.0-9ubuntu0.2

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    #
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# of the source tree for dist 4.0.
#
# Original Author: Harlan Stenn <harlan@mumps.pfcs.com>
#
# $Log: ernolist.a,v $
# Revision 3.0  1993/08/18 12:04:35  ram
# Baseline for dist 3.0 netwide release.
#
#
# This is a simple-minded awk script to generate an initialization for
# sys_errnolist on systems that don't have it.
# This file now depends only on sys/errno.h error numbers under maxerr being
# in order. It will complain and die if not. NOTE: It will still produce
# a compilable output file, even with errors, so you must check the output.

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1.89 elasticsearch-ssl-config 6.8.3

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 */
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 * A decoder that splits the received {@link ByteBuf}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 * <p>
 * [@link LengthFieldBasedFrameDecoder] has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 * 
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 */
* The value of the length field in this example is \texttt{12 (0x0C)} which
* represents the length of "HELLO, WORLD". By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field. Therefore, it can be decoded with the simplistic parameter
* combination.
* <pre>
* \texttt{lengthFieldOffset} = \texttt{0}
* \texttt{lengthFieldLength} = \texttt{2}
* \texttt{lengthAdjustment} = 0
* initialBytesToStrip = 0 (= do not strip header)
* </pre>
* 
* BEFORE DECODE (14 bytes)              AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
* 
* <h3>2 bytes length field at offset 0, strip header</h3>
* 
* Because we can get the length of the content by calling
* \texttt{@link ByteBuf#readableBytes()} , you might want to strip the length
* field by specifying \texttt{initialBytesToStrip}</tt>. In this example, we
* specified \texttt{2}</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* \texttt{lengthFieldOffset} = 0
* \texttt{lengthFieldLength} = 2
* \texttt{lengthAdjustment} = 0
* \texttt{initialBytesToStrip} = \texttt{2} (= the length of the Length field)
* </pre>
* 
* BEFORE DECODE (14 bytes)              AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+
* </pre>
* 
* <h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>
* 
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* \texttt{lengthAdjustment}</tt>. Because the length value in this example message
* is always greater than the body length by \texttt{2}</tt>, we specify \texttt{-2}</tt>
* as `<tt>lengthAdjustment</tt>` for compensation.
* `<pre>`
* lengthFieldOffset  = 0
* lengthFieldLength  = 2
* `<b>`lengthAdjustment</b> = `<b>`-2`<b>` (= the length of the Length field)
* initialBytesToStrip  = 0
* `</pre>`
*
* **BEFORE DECODE (14 bytes) **  AFTER DECODE (14 bytes)
* +-------------------------------+-------------------------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +-------------------------------+-------------------------------+
* `</pre>`
*
* `<h3>`3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. `<tt>lengthAdjustment</tt>` is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* `<pre>`
* `<b>`lengthFieldOffset</b> = `<b>`2`<b>` (= the length of Header 1)
* `<b>`lengthFieldLength</b> = `<b>`3`<b>`
* lengthAdjustment  = 0
* initialBytesToStrip  = 0
* `</pre>`
*
* **BEFORE DECODE (17 bytes) **  AFTER DECODE (17 bytes)
* +-------------------------------+-------------------------------+
* | Header 1 | Length | Actual Content |----->| Header 1 | Length | Actual Content |
* | 0xCAFE  | 0x00000C | "HELLO, WORLD" |      | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +-------------------------------+-------------------------------+
* `</pre>`
*
* `<h3>`3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive `<tt>lengthAdjustment</tt>` so that the decoder counts the extra
* header into the frame length calculation.
* `<pre>`
* lengthFieldOffset  = 0
* lengthFieldLength  = 3
* `<b>`lengthAdjustment</b> = `<b>`2`<b>` (= the length of Header 1)
* initialBytesToStrip  = 0
* `</pre>`
*
* **BEFORE DECODE (17 bytes) **  AFTER DECODE (17 bytes)
* +-------------------------------+-------------------------------+
* | Length | Header 1 | Actual Content |----->| Length | Header 1 | Actual Content |
* ch3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field<h3>
*
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
* </pre>
*
* BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
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* </pre>
* @see LengthFieldPrepender
*/

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* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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  jar/io/netty/handler/codec/DefaultHeadersImpl.java
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* Utility class for { @link ByteBuf} that encodes and decodes to and from
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1.93 zope-interface 5.0.2

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= vendor/github.com/docker/spydstream/LICENSE 246dc1c1661293602d98ff9113c3be48
package types

import "time"

// FeatureType store features types
type FeatureType string

// const
// HA means High Availability
HA = FeatureType("HA")
// DEV means developer licence
DEV = FeatureType("DEV")
// TRIAL means trial licence
TRIAL = FeatureType("TRIAL")

// Licence holds the information to be encoded in the licence key. It needs to be synced across
// the django server running on portal-API as well as the corresponding decoding package on the
// storageOS control plane
type Licence struct {
    ArrayUUID    string `json:"arrayUUID,omitempty"
    ClusterID    string `json:"clusterID,omitempty"
    CustomerID   string `json:"customerID"
    CustomerName string `json:"customerName"
    Storage      int    `json:"storage"
    ValidUntil   time.Time `json:"validUntil"
    LicenceType  string `json:"licenceType"
    Features     map[FeatureType]bool `json:"features"
    Unregistered bool `json:"unregistered"
}

// LicenceKeyContainer - stores a licence key
type LicenceKeyContainer struct {
    Key string `json:"key"
}

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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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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin   string
    Option   string
    Severity string // 'deprecated', 'removed', or 'unsupported'
}
func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf(`Plugin %v `, n.Plugin)
    } else {
        s += fmt.Sprintf(`Option %v in plugin %v `, n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in " + n.Version + "."
    } else {
        s += "is " + n.Severity + " in " + n.Version + "."
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(` It is replaced by %v `, n.ReplacedBy)
    }
    if n.Additional != "" {
        s += " " + n.Additional
    }
    return s
}

const (
    // The following statuses are used to indicate the state of support/deprecation in a given release.
    deprecated = "deprecated" // deprecated, but still completely functional
    ignored = "ignored" // if included in the corefile, it will be ignored by CoreDNS
    removed = "removed" // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
    newdefault = "newdefault" // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
    unsupported = "unsupported" // the plugin/option is not supported by the migration tool

    // The following statuses are used for selecting/filtering notifications
    all = "all" // show all statuses
)

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- Copy files to and from Containers in a cluster

# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `</path>`
- Remote file format is `</pod-name>:\<path>`
```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `<path>`
- Remote file format is `<pod-name>:<path>`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

## Specify the Container

Specify the Container within a Pod running multiple containers.

- `\-c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar /tmp/bar
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `<namespace>`.

- `<pod-namespace>/<pod-name>:<path>`

```bash
```
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar

{% endmethod %}

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package storageos

import (  
    "encoding/json"

    "github.com/storageos/go-api/types"
)

const (  
    // licenceAPIPrefix is a partial path to the HTTP endpoint.  
    licenceAPIPrefix = "licencing"
)

// Licence returns the current licence on the server.  
func (c *Client) Licence() (*types.Licence, error) {  
    resp, err := c.do("GET", licenceAPIPrefix, doOptions{})  
    if err != nil {  
        return nil, err  
    }  
    defer resp.Body.Close()  
    licence := &types.Licence{}  
    if err := json.NewDecoder(resp.Body).Decode(&licence); err != nil {  
        return nil, err  
    }  
    return licence, nil  
}

// LicenceApply applies a licence on the server.  
func (c *Client) LicenceApply(licenceKey string) error {  
    _, err := c.do("POST", licenceAPIPrefix, doOptions{  
        data: &types.LicenceKeyContainer{Key: licenceKey},  
    })  
    return err  
}

// LicenceDelete removes the current licence.  
func (c *Client) LicenceDelete() error {  
    resp, err := c.do("DELETE", licenceAPIPrefix, doOptions{})  
    if err != nil {  
        return err  
    }
} return resp.Body.Close()
}

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Tomb - support for clean goroutine termination in Go.

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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,
        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,
    })

    body.Res.Returnval = licenseInfo(req.LicenseKey, 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
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{ }

    for i := range m.Licenses {
        license := &m.Licenses[i]

        if req.LicenseKey != license.LicenseKey {
            continue
        }

        body.Res = new(types.UpdateLicenseLabelResponse)
for j := range license.Labels {
    label := &license.Labels[j]

    if label.Key == req.LabelKey {
        if req.LabelValue == "" {
            license.Labels = append(license.Labels[i], license.Labels[i+1:...])
        } else {
            label.Value = req.LabelValue
        }
        return body
    }
}

license.Labels = append(license.Labels, types.KeyValue{
    Key:   req.LabelKey,
    Value: req.LabelValue,
})
return body

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
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 != "" {
        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,
}

return body

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}

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= vendor/golang.org/x/xerrors/LICENSE a413d6b3884e141783f23d00d5838777
proofs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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

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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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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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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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1.98 cmake 3.21.1

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

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

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

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Oracle OpenJDK
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* java.sun.security.ssl

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

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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1.103 geoclue 2.1.10-2.el7

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

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

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.

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.

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

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Preamble

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Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that companies distributing free
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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
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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
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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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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-readible "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.

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1.111 opensaml-security-api 3.3.0

1.112 xz 5.2.4 1
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Upstream-Name: XZ Utils
Upstream-Contact:
Lasse Collin <lasse.collin@tukaani.org>
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Source:
https://tukaani.org/xz
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Comment:
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changelog.gz (commit 975d8fd) explains:

- Recreated the BCJ test files for x86 and SPARC. The old files were linked with crt*.o, which are copyrighted, and thus the old test files were not in the public domain as a whole. They are freely distributable though, but it is better to be careful and avoid including any copyrighted pieces in the test files. The new files are just compiled and assembled object files, and thus don't contain any copyrighted code.

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Files: dos/config.h
        Free Software Foundation, Inc.
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Other-Authors: Roland McGrath, Akim Demaille, Paul Eggert,
               David Mackenzie, Bruno Haible, and many others.
Origin: configure.ac from XZ Utils,
        visibility.m4 serial 1 (gettext-0.15),
        Autoconf 2.52g
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configure.ac:

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comments from Autoconf 2.52g:

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dos/config.h was generated with autoheader, which tells Autoconf to
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Origin: gettext-runtime/po/Makevars (gettext-0.12)
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1.114 perl-module-load-conditional 0.68-395.el8
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=head1 Global Variables

The behaviour of Module::Load::Conditional can be altered by changing the
following global variables:

=head2 $Module::Load::Conditional::VERBOSE
This controls whether Module::Load::Conditional will issue warnings and explanations as to why certain things may have failed. If you set it to 0, Module::Load::Conditional will not output any warnings. The default is 0;

=head2 $Module::Load::Conditional::FIND_VERSION

This controls whether Module::Load::Conditional will try to parse (and eval) the version from the module you're trying to load.

If you don't wish to do this, set this variable to C<false>. Understand then that version comparisons are not possible, and Module::Load::Conditional can not tell you what module version you have installed. This may be desirable from a security or performance point of view. Note that C<$FIND_VERSION> code runs safely under C<taint mode>.

The default is 1;

=head2 $Module::Load::Conditional::CHECK_INC_HASH

This controls whether C<Module::Load::Conditional> checks your C<%INC> hash to see if a module is available. By default, only C<%@INC> is scanned to see if a module is physically on your filesystem, or available via an C<@INC-hook>. Setting this variable to C<true> will trust any entries in C<%INC> and return them for you.

The default is 0;

=head2 $Module::Load::Conditional::FORCE_SAFE_INC

This controls whether C<Module::Load::Conditional> sanitises C<@INC> by removing "C<.>". The current default setting is C<0>, but this may change in a future release.

=head2 $Module::Load::Conditional::CACHE

This holds the cache of the C<can_load> function. If you explicitly want to remove the current cache, you can set this variable to C<undef>

=head2 $Module::Load::Conditional::ERROR

This holds a string of the last error that happened during a call to C<can_load>. It is useful to inspect this when C<can_load> returns C<undef>.
This controls whether \texttt{Module::Load::Conditional\textgreater} checks if a dual-life core module has been deprecated. If this is set to true \texttt{check\_install} will return false to \texttt{uptodate}, if a dual-life module is found to be loaded from \texttt{Config\{privlibexp\}}.

The default is 0;

\section{See Also}

\texttt{Module::Load}

\section{BUG REPORTS}

Please report bugs or other issues to \texttt{bug-module-load-conditional@rt.cpan.org}.

\section{AUTHOR}

This module by Jos Boumans \texttt{kane@cpan.org}.

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to C<use> them and can do smart loading of modules.
Also it can tell you what *other* modules a certain module
requires.

#####################################################################

* Installation

Module::Load::Conditional uses the standard perl module install
process:

perl Makefile.PL
make
make test
make install

The module uses no C or XS parts, so no c-compiler is required.

#####################################################################

AUTHOR

This module by Jos Boumans <kane@cpan.org>.

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expand-archive-xREpBDwq/Module-Load-Conditional-0.68.tar.gz-cosi-expand-archive-726ezRIK/Module-Load-
Conditional-0.68/README
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---
abstract: 'Looking up module information / loading at runtime'
author:
  - 'Jos Boumans <kane[at]cpan.org>'
build_requires:
  Test::More: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.18, 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: Module-Load-Conditional
no_index:
directory:
  - t
  - inc
requires:
Locale::Maketext::Simple: '0'
Module::CoreList: '2.22'
Module::Load: '0.28'
Module::Metadata: '1.000005'
Params::Check: '0'
version: '0.69'
resources:
repository: https://github.com/jib/module-load-conditional
version: '0.68'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

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* /opt/cola/permits/1178586976_1625692088.85/0/perl-Module-Load-Conditional-0.68-395.el8-1.src.rpm-cosi-expand-archive-xREpBDwq/Module-Load-Conditional-0.68.tar.gz-cosi-expand-archive-726ezRIK/Module-Load-Conditional-0.68/META.yml
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* /opt/cola/permits/1178586976_1625692088.85/0/perl-Module-Load-Conditional-0.68-395.el8-1.src.rpm-cosi-expand-archive-xREpBDwq/perl-Module-Load-Conditional.spec

1.115 file 5.11 36.el7
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1.116 asm 5.0.4

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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/package.html
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/signature/package.html
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/*
 * Creates a new JSRInliner. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * { @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
 * version.
 *
 * @param mv
*/
the <code>MethodVisitor</code> to send the resulting inlined
method code to (use <code>null</code> for none).

* @param access
* the method's access flags (see [link Opcodes]). This
* parameter also indicates if the method is synthetic and/or
* deprecated.

* @param name
* the method's name.

* @param desc
* the method's descriptor (see [link Type]).

* @param signature
* the method's signature. May be <tt>null</tt>.

* @param exceptions
* the internal names of the method's exception classes (see
* {link Type#getName()}). May be
* <tt>null</tt>.

* @throws IllegalStateException
* If a subclass calls this constructor.

*/

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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/commons/JSRInlinerAdapter.java

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

/**
 * Constructs a new [@link Textifier]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [@link #Textifier(int)]
 * version.
 *
 * @throws IllegalStateException
 *   If a subclass calls this constructor.
 */

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/**
* Constructs a new [ @link ClassNode ] . <i>Subclasses must not use this
* constructor</i> . Instead, they must use the [ @link #ClassNode(int)]
* version.
*
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

*/

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/**
 * @param typeRef a reference to the annotated type. See {@link TypeReference}.
 * @param typePath the path to the annotated type argument, wildcard bound, array
element type, or static inner type within 'typeRef'. May be
* <tt>null</tt> if the annotation targets 'typeRef' as a whole.
* @param start the fist instructions corresponding to the continuous ranges
* that make the scope of this local variable (inclusive).
* @param end the last instructions corresponding to the continuous ranges
* that make the scope of this local variable (exclusive). This
* array must have the same size as the 'start' array.
*/
* @param index
  * the local variable's index in each range. This array must have
  * the same size as the 'start' array.
* @param desc
  * the class descriptor of the annotation class.
*/

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

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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
  jar/org/objectweb/asm/commons/AnalyzerAdapter.java
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/shrink-frames.properties
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/shrink-signatures.properties
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/shrink.properties
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/shrink-writer.properties
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  */opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/TypeReference.java

1.117 spring-web-mvc 5.2.5.RELEASE

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* A contract for inspecting and potentially modifying request data values such
* as URL query parameters or form field values before they are rendered by a
* view or before a redirect.
* *
* <p>Implementations may use this contract for example as part of a solution
* to provide data integrity, confidentiality, protection against cross-site request forgery (CSRF), and others or for other tasks such as automatically adding a hidden field to all forms and URLs.

* <p>View technologies that support this contract can obtain an instance to delegate to via [@link RequestContext#getRequestDataValueProcessor()].

* @author Rossen Stoyanchev
* @since 3.1
*/

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*/

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* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1.jar/org/springframework/web/servlet/support/RequestContext.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1.jar/org/springframework/web/servlet/resource/WebJarsResourceResolver.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1.jar/org/springframework/web/servlet/resource/EncodedResourceResolver.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1.jar/org/springframework/web/servlet/config/MvcNamespaceUtils.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1.jar/org/springframework/web/servlet/mvc/method/annotation/ServletInvocableHandlerMethod.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1.jar/org/springframework/web/servlet/config/annotation/InterceptorRegistration.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1.jar/org/springframework/web/servlet/view/RedirectView.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1.jar/org/springframework/web/servlet/i18n/CookieLocaleResolver.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1.jar/org/springframework/web/servlet/function/DefaultServerResponseBuilder.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1.jar/org/springframework/web/servlet/function/ServerResponseExtensions.kt
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1.jar/org/springframework/web/servlet/function/DefaultRenderingResponseBuilder.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1.jar/org/springframework/web/servlet/function/ToStringVisitor.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1.jar/org/springframework/web/servlet/function/EntityResponse.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1.jar/org/springframework/web/servlet/resource/ResourceUrlProvider.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1.jar/org/springframework/web/servlet/support/ServletUriComponentsBuilder.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1.jar/org/springframework/web/servlet/handler/BeanNameUrlHandlerMapping.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1.jar/org/springframework/web/servlet/view/AbstractCachingViewResolver.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1.jar/org/springframework/web/servlet/resource/CachingResourceResolver.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1.jar/org/springframework/web/servlet/function/RequestPredicate.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1.jar/org/springframework/web/servlet/view/AbstractCachingViewResolver.java
*/
*/opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-
jar/org/springframework/web/servlet/resource/CssLinkResourceTransformer.java
*/opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/PathVariableMethodArgumentResolver.java
*/opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-
jar/org/springframework/web/servlet/DispatcherServlet.java
*/opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-
jar/org/springframework/web/servlet/mvc/condition/RequestMethodsRequestCondition.java
*/opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-
jar/org/springframework/web/servlet/support/AbstractFlashMapManager.java
*/opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-
jar/org/springframework/web/servlet/mvc/condition/HeadersRequestCondition.java
*/opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-
jar/org/springframework/web/servlet/resource/ResourceUrlEncodingFilter.java
*/opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ExceptionHandlerExceptionResolver.java
*/opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-
jar/org/springframework/web/servlet/resource/CachingResourceTransformer.java
*/opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ViewMethodReturnValueHandler.java

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*/
XSLT-driven View that allows for response context to be rendered as the result of an XSLT transformation.

The XSLT Source object is supplied as a parameter in the model and then a specific entry in the model via the `setSourceKey` property or have Spring locate the Source object. This class also provides basic conversion of objects into Source implementations. See `getSourceTypes()` here for more details.

All model parameters are passed to the XSLT Transformer as parameters. In addition the user can configure `setOutputProperties` to be passed to the Transformer.

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* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-
  jar/org/springframework/web/servlet/tags/form/HiddenInputTag.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-jar/org/springframework/web/servlet/tags/form/AbstractHtmlInputElementTag.java
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* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-jar/org/springframework/web/servlet/resources/DefaultResourceResolverChain.java
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* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-jar/org/springframework/web/servlet/resource/DefaultResourceResolverChain.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-jar/org/springframework/web/servlet/support/AbstractAnnotationConfigDispatcherServletInitializer.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-jar/org/springframework/web/servlet/HttpServletBean.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-jar/org/springframework/web/servlet/resource/DefaultServletHttpRequestHandler.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-jar/org/springframework/web/servlet/tags/form/RadioButtonTag.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-jar/org/springframework/web/servlet/ModelAndViewDefiningException.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-jar/org/springframework/web/servlet/tags/form/TextareaTag.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-jar/org/springframework/web/servlet/tags/EditorAwareTag.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-jar/org/springframework/web/servlet/tags/EvalTag.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-jar/org/springframework/web/servlet/tags/button/ButtonTag.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-jar/org/springframework/web/servlet/tags/AbstractHtmlElementBodyTag.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-jar/org/springframework/web/servlet/tags/form/AbstractFormTag.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-jar/org/springframework/web/servlet/view/groovy/GroovyMarkupConfigurer.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-jar/org/springframework/web/servlet/mvc/support/DefaultHandlerExceptionResolver.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-jar/org/springframework/web/servlet/mvc/condition/CompositeRequestCondition.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-jar/org/springframework/web/servlet/resource/ResourceResolverChain.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-jar/org/springframework/web/servlet/resource/TransformedResource.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-jar/org/springframework/web/servlet/FrameworkServlet.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-jar/org/springframework/web/servlet/tags/form/SelectTag.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-jar/org/springframework/web/servlet/tags/AbstractFormTag.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-jar/org/springframework/web/servlet/config/ResourcesBeanDefinitionParser.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-jar/org/springframework/web/servlet/config/HandlerMethodMappingNamingStrategy.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-jar/org/springframework/web/servlet/view/groovy/GroovyMarkupConfigurer.java
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1.120 fullsailor-pkcs7 v0.0.0-20190404230743-d7302db945fa

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jar/org/springframework/boot/actuate/autoconfigure/management/HeapDumpWebEndpointAutoConfiguration.java
* /opt/cola/permits/1102171929_1603488075.94/0/spring-boot-actuator-autoconfigure-2-1-8-release-sources-1-
jar/org/springframework/boot/actuate/autoconfigure/metrics/export/ganglia/GangliaPropertiesConfigAdapter.java
* /opt/cola/permits/1102171929_1603488075.94/0/spring-boot-actuator-autoconfigure-2-1-8-release-sources-1-
jar/org/springframework/boot/actuate/autoconfigure/amqp/RabbitHealthIndicatorAutoConfiguration.java

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* /opt/cola/permits/1102171929_1603488075.94/0/spring-boot-actuator-autoconfigure-2-1-8-release-sources-1-
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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DRuntime: Runtime Library for the D Programming Language

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1.137 acarl005-stripansi v0.0.0-
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1.138 spidermonkey 1.8.5

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1.139 bzip2 1.0.6-13.el7atomix1

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bzip2/libbzip2 version 1.0.8 of 13 July 2019

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

1.140 python-ipy 0.75 6.el7
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1.141 websocket-api 9.4.27.v20200227

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

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

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

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

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

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Oracle OpenJDK

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module is selected.

* java.sun.security.ssl

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OW2

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

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Apache

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

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
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org.apache.tomcat:tomcat-util-scan
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.142 jaeger-lib v2.2.0+incompatible

1.142.1 Available under license:

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1.143 opensaml-profile-impl 3.3.0

1.144 kerberos 1.17-3
1.144.1 Available under license :

[ NOTE: MIT has only incorporated the mechglue and spnego change, and
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```
cmd/krb5/iprop/iprop.x
cmd/krb5/iprop/iprop_hdr.h
cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/etc/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
```
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>MIT Kerberos License information &amp;#8212; MIT Kerberos Documentation</title>
<link rel="stylesheet" href=_static/agogo.css" type="text/css" />
<link rel="stylesheet" href=_static/pygments.css" type="text/css" />
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO are included in the following files:

```c
lib/gssapi/generic/gssapi_err_generic
```

```c
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_exp_sec_context
```

```c
lib/gssapi/mechglue/g_export_name
```

```c
lib/gssapi/mechglue/g_glue
```

```c
lib/gssapi/mechglue/g_imp_name
```
class="o"/>
</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_imp_sec_context</span><span class="o">/</span><span class="n">g_init_sec_context</span><span class="o">/</span><span class="n">g_init.initialize</span><span class="o">/</span><span class="n">g_initializing</span><span class="o">/</span><span class="n">g_initializing_context</span><span class="o">/</span><span class="n">g_initializing_cred</span><span class="o">/</span><span class="n">g_initializing_names</span><span class="o">/</span><span class="n">g_initialize</span><span class="o">/</span><span class="n">g_initialize_context</span><span class="o">/</span><span class="n">g_initialize_cred</span><span class="o">/</span><span class="n">g_initialize_names</span><span class="o">/</span><span class="n">g_inquire_context</span><span class="o">/</span><span class="n">g_inquire_cred</span><span class="o">/</span><span class="n">g_inquire_names</span><span class="o">/</span><span class="n">g_process_context</span><span class="o">/</span><span class="n">g_process_cred</span><span class="o">/</span><span class="n">g_process_names</span><span class="o">/</span><span class="n">g_rel_buffer</span><span class="o">/</span><span class="n">g_rel_cred</span><span class="o">/</span><span class="n">g_rel_name</span><span class="o">/</span><span class="n">g_rel_oid_set</span><span class="o">/</span><span class="n">g_rel_unseal</span><span class="o">/</span><span class="n">g_rel_userok</span><span class="o">/</span><span class="n">g_sign</span><span class="o">/</span><span class="n">g_store_cred</span><span class="o">/</span><span class="n">g_unseal</span><span class="o">/</span><span class="n">g_userok</span><span class="o">/</span><span class="n">g_verify</span><span class="o">/</span><span class="n">g_verify_cred</span><span class="o">/</span><span class="n">g_verify_names</span><span class="o">/</span><span class="n">g_verify_unseal</span><span class="o">/</span><span class="n">g_verify_userok</span><span class="o">/</span><span class="n">g_verify verify_unseal</span><span class="o">/</span><span class="n">g_verify_userok</span><span class="o">/</span><span class="n">g_verify verify_unseal</span><span class="o">/</span><span class="n">g_verify_userok</span><span class="o">/</span><span class="n">g_verify verify_unseal</span><span class="o">/</span><span class="n">g_verify_userok</span><span class="o">/</span><span class="n">g_verify verify_unseal</span><span class="o">/</span><span class="n">g_verify_userok</span><span class="o">/</span><span class="n">g_verify verify_unseal</span><span class="o">/</span><span class="n">g_verify_userok</span><span class="o">/</span><span class="n">g_verify verify_unseal</span><span class="o">/</span><span class="n">g_verify_userok</span><span class="o">/</span><span class="n">g_verify verify_unseal</span><span class="o">/</span><span class="n">g_verify_userok</span><span class="o">/</span><span class="n">g_verify verify_unseal</span><span class="o">/</span><span class="n">g_verify_userok</span><span class="o">/</span><span class="n">g_verify verify_unseal</span><span class="o">/</span><span class="n">g_verify_userok</span><span class="o">/</span><span class="n">g_verify verify_unseal</span><span class="o">/</span><span class="n">g_verify_userok</span><span class="o">/"}
and the initial implementation of incremental propagation, including the following new or changed files:

- include/iprop_hdr.h
- kadmin/server/ipropd_svc.c
- lib/kdb/iprop.x
- lib/kdb/kdb_convert.c
- lib/kdb/kdb_log.c
- lib/kdb/error_tables/kdb5_err.et
- kprop/kpropd_rpc.c
- kprop/log

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.. parsed-literal::

   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
and the initial implementation of incremental propagation, including the following new or changed files:

```
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c
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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
and the initial implementation of incremental propagation, including the following new or changed files:

```
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c
```

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import sys
import re

def warn(fname, ln, msg):
print '%s: %d: %s' % (fname, ln + 1, msg)
def indicates_license(line):
return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line
# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
text_seen = False
is_license = False
for line in comment:
if not is_license and indicates_license(line):
is_license = True
if text_seen:
warn(fname, ln, 'License begins after first line of comment')
elif code_seen:
warn(fname, ln, 'License after code')
elif nonlicense_seen:
warn(fname, ln, 'License after non-license comments')
break
# DB2 licenses start with '/*-' and we don't want to change them.
if line != '' and line != '-':
text_seen = True
return is_license
def check_file(lines, fname):
# Skip emacs mode line if present.
ln = 0
if '-*- mode: c;' in lines[ln]:
ln += 1
# Check filename comment if present.
m = re.match(r'/\* ([^ ]*)( - .*)? \*/', lines[ln])
if m:
if m.group(1) != fname:
warn(fname, ln, 'Wrong filename in comment')
ln += 1
# Scan for license statements.
in_comment = False
code_seen = False
nonlicense_seen = False
for line in lines[ln:]:
# Strip out whitespace and comments contained within a line.
if not in_comment:
line = re.sub(r'/\*.*?\*/', '', line)
line = line.strip()

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if not in_comment and '/*' in line:
    (line, sep, comment_part) = line.partition('/*')
    comment = [comment_part.strip()]
    comment_starts_at = ln
    in_comment = True
elif in_comment and '*/' not in line:
    comment.append(line.lstrip('*').lstrip())
elif in_comment:
    (comment_part, sep, line) = line.partition('*/')
    comment.append(comment_part.strip())
    is_license = check_comment(comment, fname, comment_starts_at,
                              code_seen, nonlicense_seen)
    nonlicense_seen = nonlicense_seen or not is_license
    in_comment = False
elif line.strip() != '':
    code_seen = True
    ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./'):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)
.. _mitK5license:

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

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   :hidden:
   :globallink:

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* /opt/cola/permits/1139282581_1614508079.72/0/perl-Locale-Maketext-1.28-396.el8-1.src.rpm-cosi-expand-archive-0YfnUF3M/perl-Locale-Maketext.spec
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=head1 NAME

Locale::Maketext - framework for localization

=head1 SYNOPSIS

package MyProgram;
use strict;
use MyProgram::L10N;
# ... which inherits from Locale::Maketext
my $lh = MyProgram::L10N->get_handle() || die "What language?"
...
# And then any messages your program emits, like:
warn $lh->maketext("Can't open file [_1]: [_2]\n", $f, $!);
...

=head1 DESCRIPTION

It is a common feature of applications (whether run directly, or via the Web) for them to be "localized" -- i.e., for them to a present an English interface to an English-speaker, a German interface to a German-speaker, and so on for all languages it's programmed with. Locale::Maketext is a framework for software localization; it provides you with the tools for organizing and accessing the bits of text and text-processing code that you need for producing localized applications.

In order to make sense of Maketext and how all its components fit together, you should probably go read L<Locale::Maketext::TPJ13|Locale::Maketext::TPJ13>, and then read the following documentation.

You may also want to read over the source for C<File::Findgrep> and its constituent modules -- they are a complete (if small) example application that uses Maketext.

=head1 QUICK OVERVIEW

The basic design of Locale::Maketext is object-oriented, and Locale::Maketext is an abstract base class, from which you derive a "project class". The project class (with a name like "TkBocciBall::Localize", which you then use in your module) is in turn the base class for all the "language classes" for your project (with names "TkBocciBall::Localize::it", "TkBocciBall::Localize::en", "TkBocciBall::Localize::fr", etc.).

A language class is a class containing a lexicon of phrases as class data, and possibly also some methods that are of use in interpreting phrases in the lexicon, or otherwise dealing with text in that language.

An object belonging to a language class is called a "language handle": it's typically a flyweight object.
The normal course of action is to call:

```perl
use TkBocciBall::Localize; # the localization project class
$lh = TkBocciBall::Localize->get_handle();
# Depending on the user's locale, etc., this will
# make a language handle from among the classes available,
# and any defaults that you declare.
die "Couldn't make a language handle??" unless $lh;
```

From then on, you use the `maketext` function to access entries in whatever lexicon(s) belong to the language handle you got. So, this:

```perl
print $lh->maketext("You won!"), ",n";
```

...emits the right text for this language. If the object in `$lh` belongs to class "TkBocciBall::Localize::fr" and `%TkBocciBall::Localize::fr::Lexicon` contains `("You won!" =E<gt> "Tu as gagnE<eacute>!")`, then the above code happily tells the user "Tu as gagnE<eacute>!".

=head1 METHODS

Locale::Maketext offers a variety of methods, which fall into three categories:

=over

=item *

Methods to do with constructing language handles.

=item *

C<maketext> and other methods to do with accessing `%Lexicon` data for a given language handle.

=item *

Methods that you may find it handy to use, from routines of yours that you put in `%Lexicon` entries.

=back

These are covered in the following section.

=head2 Construction Methods
These are to do with constructing a language handle:

=over

=item *

$lh = YourProjClass->get_handle(...langtags...) || die "lg-handle??";

This tries loading classes based on the language-tags you give (like C<"en-US", "sk", "kon", "es-MX", "ja", "i-klingon">), and for the first class that succeeds, returns YourProjClass::I<language>-new().

If it runs thru the entire given list of language-tags, and finds no classes for those exact terms, it then tries "superordinate" language classes. So if no "en-US" class (i.e., YourProjClass::en_us) was found, nor classes for anything else in that list, we then try its superordinate, "en" (i.e., YourProjClass::en), and so on thru the other language-tags in the given list: "es". (The other language-tags in our example list: happen to have no superordinates.)

If none of those language-tags leads to loadable classes, we then try classes derived from YourProjClass->fallback_languages() and then if nothing comes of that, we use classes named by YourProjClass->fallback_language_classes(). Then in the (probably quite unlikely) event that that fails, we just return undef.

=item *

$lh = YourProjClass->get_handleB<()> || die "lg-handle??";

When C<get_handle> is called with an empty parameter list, magic happens:

If C<get_handle> senses that it's running in program that was invoked as a CGI, then it tries to get language-tags out of the environment variable "HTTP_ACCEPT_LANGUAGE", and it pretends that those were the languages passed as parameters to C<get_handle>.

Otherwise (i.e., if not a CGI), this tries various OS-specific ways to get the language-tags for the current locale/language, and then pretends that those were the value(s) passed to C<get_handle>.

Currently this OS-specific stuff consists of looking in the environment variables "LANG" and "LANGUAGE"; and on MSWin machines (where those variables are typically unused), this also tries using the module Win32::Locale to get a language-tag for whatever language/locale is currently selected in the "Regional Settings" (or "International"?)
Control Panel. I welcome further suggestions for making this do the Right Thing under other operating systems that support localization.

If you're using localization in an application that keeps a configuration file, you might consider something like this in your project class:

```perl
sub get_handle_via_config {
    my $class = $_[0];
    my $chosen_language = $Config_settings{'language'};
    my $lh;
    if($chosen_language) {
        $lh = $class->get_handle($chosen_language)
        || die "No language handle for "$chosen_language" " or the like";
    } else {
        # Config file missing, maybe?
        $lh = $class->get_handle()
        || die "Can't get a language handle";
    }
    return $lh;
}

$lh = YourProjClass::langname->new();

This constructs a language handle. You usually B<don't> call this directly, but instead let C<get_handle> find a language class to C<use> and to then call ->new on.

$lh->init();

This is called by ->new to initialize newly-constructed language handles. If you define an init method in your class, remember that it's usually considered a good idea to call $lh->SUPER::init in it (presumably at the beginning), so that all classes get a chance to initialize a new object however they see fit.

YourProjClass->fallback_languages()

C<get_handle> appends the return value of this to the end of whatever list of languages you pass C<get_handle>. Unless you override this method, your project class
will inherit Locale::Maketext's C<fallback_languages>, which currently returns C<('i-default', 'en', 'en-US')>. ("i-default" is defined in RFC 2277).

This method (by having it return the name of a language-tag that has an existing language class) can be used for making sure that C<get_handle> will always manage to construct a language handle (assuming your language classes are in an appropriate @INC directory). Or you can use the next method:

=item *

YourProjClass->fallback_language_classes()

C<get_handle> appends the return value of this to the end of the list of classes it will try using. Unless you override this method, your project class will inherit Locale::Maketext's C<fallback_language_classes>, which currently returns an empty list, C<()>. By setting this to some value (namely, the name of a loadable language class), you can be sure that C<get_handle> will always manage to construct a language handle.

=back

=head2 The "maketext" Method

This is the most important method in Locale::Maketext:

$text = $lh->maketext(1<key>, ...parameters for this phrase...);

This looks in the %Lexicon of the language handle $lh and all its superclasses, looking for an entry whose key is the string I<key>. Assuming such an entry is found, various things then happen, depending on the value found:

If the value is a scalarref, the scalar is dereferenced and returned (and any parameters are ignored).

If the value is a coderef, we return &$value($lh, ...parameters...).

If the value is a string that I<doesn't> look like it's in Bracket Notation, we return it (after replacing it with a scalarref, in its %Lexicon).

If the value I<does> look like it's in Bracket Notation, then we compile
it into a sub, replace the string in the %Lexicon with the new coderef, and then we return &$new_sub($lh, ...parameters...).

Bracket Notation is discussed in a later section. Note that trying to compile a string into Bracket Notation can throw an exception if the string is not syntactically valid (say, by not balancing brackets right.)

Also, calling &$coderef($lh, ...parameters...) can throw any sort of exception (if, say, code in that sub tries to divide by zero). But a very common exception occurs when you have Bracket Notation text that says to call a method "foo", but there is no such method. (E.g., "You have [quaB<tn>_1,ball]." will throw an exception on trying to call $lh->quaB<tn>($_[1],'ball') -- you presumably meant "quant".) C<maketext> catches these exceptions, but only to make the error message more readable, at which point it rethrows the exception.

An exception I<may> be thrown if I<key> is not found in any of $lh's %Lexicon hashes. What happens if a key is not found, is discussed in a later section, "Controlling Lookup Failure".

Note that you might find it useful in some cases to override the C<maketext> method with an "after method", if you want to translate encodings, or even scripts:

```
package YrProj::zh_cn; # Chinese with PRC-style glyphs
use base ('YrProj::zh_tw'); # Taiwan-style
sub maketext {
    my $self = shift(@_);
    my $value = $self->maketext(@_);
    return Chineeze::taiwan2mainland($value);
}
```

Or you may want to override it with something that traps any exceptions, if that's critical to your program:

```
sub maketext {
    my($lh, @stuff) = @_; // ...
    my $out;
    eval { $out = $lh->SUPER::maketext(@stuff) };
    return $out unless $@;
    ...otherwise deal with the exception...
}
```

Other than those two situations, I don't imagine that it's useful to override the C<maketext> method. (If you run into a situation where it is useful, I'd be interested in hearing about it.)
These two methods are discussed in the section "Controlling Lookup Failure".

These methods are discussed in the section "Bracket Notation Security".

These are methods that you may find it handy to use, generally from %Lexicon routines of yours (whether expressed as Bracket Notation or not).

This is generally meant to be called from inside Bracket Notation (which is discussed later), as in

"Your search matched [quant,_1,document]!"

It's for quantifying a noun (i.e., saying how much of it there is, while giving the correct form of it). The behavior of this method is handy for English and a few other Western European languages, and you should override it for languages where it's not suitable. You can feel free to read the source, but the current implementation is basically as this pseudocode describes:

if $number is 0 and there's a $negative,
    return $negative;
elsif $number is 1,
return "1 $singular";
elsif there's a $plural,
    return "$number $plural";
else
    return "$number " . $singular . "s";
#
# ...except that we actually call numf to
#  stringify $number before returning it.

So for English (with Bracket Notation)
C<"...[quant,_1,file]..."> is fine (for 0 it returns "0 files",
for 1 it returns "1 file", and for more it returns "2 files", etc.)

But for "directory", you'd want C<"[quant,_1,directory,directories]"> so that our elementary C<quant> method doesn't think that the plural of "directory" is "directorys". And you might find that the output may sound better if you specify a negative form, as in:

"[quant,_1,file,files,No files] matched your query.
"

Remember to keep in mind verb agreement (or adjectives too, in other languages), as in:

"[quant,_1,document] were matched."

Because if _1 is one, you get "1 document were matched". An acceptable hack here is to do something like this:

"[quant,_1,document was, documents were] matched."

=item $language->numf($number)

This returns the given number formatted nicely according to this language's conventions. Maketext's default method is mostly to just take the normal string form of the number (applying sprintf "%G" for only very large numbers), and then to add commas as necessary. (Except that we apply C<tr/,./.,/> if $language->{'numf_comma'} is true; that's a bit of a hack that's useful for languages that express two million as "2,000,000" and not as "2,000,000").

If you want anything fancier, consider overriding this with something that uses L<Number::Format|Number::Format>, or does something else entirely.

Note that numf is called by quant for stringifying all quantifying numbers.
This returns the given noun form which is appropriate for the quantity C<$number> according to this language's conventions. C<numerate> is used internally by C<quant> to quantify nouns. Use it directly -- usually from bracket notation -- to avoid C<quant>'s implicit call to C<numf> and output of a numeric quantity.

This is just a wrapper around Perl's normal C<sprintf> function. It's provided so that you can use "sprintf" in Bracket Notation:

"Couldn't access datanode [sprintf,%10x=~[%s~],_1,_2]\n"

returning...

Couldn't access datanode Stuff=[thangamabob]!

Currently this just takes the last bit of C<ref($language)>, turns underscores to dashes, and returns it. So if $language is an object of class Hee::HOO::Haw::en_us, $language->language_tag() returns "en-us". (Yes, the usual representation for that language tag is "en-US", but case is I<never> considered meaningful in language-tag comparison.)

You may override this as you like; Maketext doesn't use it for anything.

Currently this isn't used for anything, but it's provided (with default value of C<ref($language) && $language-E<gt>{'encoding'}>) or "iso-8859-1") as a sort of suggestion that it may be useful/necessary to associate encodings with your language handles (whether on a per-class or even per-handle basis.)

A language handle is a flyweight object -- i.e., it doesn't (necessarily) carry any data of interest, other than just being a member of whatever class it belongs to.
A language handle is implemented as a blessed hash. Subclasses of yours can store whatever data you want in the hash. Currently the only hash entry used by any crucial Maketext method is "fail", so feel free to use anything else as you like.

B<Remember: Don't be afraid to read the Maketext source if there's any point on which this documentation is unclear.> This documentation is vastly longer than the module source itself.

=head1 LANGUAGE CLASS HIERARCHIES

These are Locale::Maketext's assumptions about the class hierarchy formed by all your language classes:

=over
=item *
You must have a project base class, which you load, and which you then use as the first argument in the call to YourProjClass->get_handle(...). It should derive (whether directly or indirectly) from Locale::Maketext. It B<doesn't matter> how you name this class, although assuming this is the localization component of your Super Mega Program, good names for your project class might be SuperMegaProgram::Localization, SuperMegaProgram::L10N, SuperMegaProgram::I18N, SuperMegaProgram::International, or even SuperMegaProgram::Languages or SuperMegaProgram::Messages.

=item *
Language classes are what YourProjClass->get_handle will try to load. It will look for them by taking each language-tag (B<skipping> it if it doesn't look like a language-tag or locale-tag!), turning it to all lowercase, turning dashes to underscores, and appending it to YourProjClass . ":" . So this:

$lh = YourProjClass->get_handle( 
  'en-US', 'fr', 'kon', 'i-klingon', 'i-klingon-romanized' 
);

will try loading the classes
YourProjClass::en_us (note lowercase!), YourProjClass::fr, YourProjClass::kon, YourProjClass::i_klingon
and YourProjClass::i_klingon_romanized. (And it'll stop at the first one that actually loads.)
I assume that each language class derives (directly or indirectly) from your project class, and also defines its @ISA, its %Lexicon, or both. But I anticipate no dire consequences if these assumptions do not hold.

Language classes may derive from other language classes (although they should have "use I<Thatclassname>" or "use base qw(I<...classes...>)"). They may derive from the project class. They may derive from some other class altogether. Or via multiple inheritance, it may derive from any mixture of these.

I foresee no problems with having multiple inheritance in your hierarchy of language classes. (As usual, however, Perl will complain bitterly if you have a cycle in the hierarchy: i.e., if any class is its own ancestor.)

ENTRIES IN EACH LEXICON

A typical %Lexicon entry is meant to signify a phrase, taking some number (0 or more) of parameters. An entry is meant to be accessed by via a string I<key> in $lh->maketext(I<key>, ...parameters...), which should return a string that is generally meant for be used for "output" to the user -- regardless of whether this actually means printing to STDOUT, writing to a file, or putting into a GUI widget.

While the key must be a string value (since that's a basic restriction that Perl places on hash keys), the value in the lexicon can currently be of several types: a defined scalar, scalarref, or coderef. The use of these is explained above, in the section 'The "maketext" Method', and Bracket Notation for strings is discussed in the next section.

While you can use arbitrary unique IDs for lexicon keys (like "_min_larger_max_error"), it is often useful for if an entry's key is itself a valid value, like this example error message:

"Minimum ([_1]) is larger than maximum ([_2])!n",\n
Compare this code that uses an arbitrary ID...

```perl
die $lh->maketext( "_min_larger_max_error", $min, $max )
if $min > $max;

...to this code that uses a key-as-value:

```perl
die $lh->maketext(
    "Minimum ([_1]) is larger than maximum ([_2])!\n",
    $min, $max
) if $min > $max;
```

The second is, in short, more readable. In particular, it's obvious that the number of parameters you're feeding to that phrase (two) is the number of parameters that it I<wants> to be fed. (Since you see _1 and a _2 being used in the key there.)

Also, once a project is otherwise complete and you start to localize it, you can scrape together all the various keys you use, and pass it to a translator; and then the translator's work will go faster if what he's presented is this:

```perl
"Minimum ([_1]) is larger than maximum ([_2])!\n",
=> "", # fill in something here, Jacques!
```

rather than this more cryptic mess:

```perl
"_min_larger_max_error"
=> "", # fill in something here, Jacques
```

I think that keys as lexicon values makes the completed lexicon entries more readable:

```perl
"Minimum ([_1]) is larger than maximum ([_2])!\n",
=> "Le minimum ([_1]) est plus grand que le maximum ([_2])!\n",
```

Also, having valid values as keys becomes very useful if you set up an _AUTO lexicon. _AUTO lexicons are discussed in a later section.

I almost always use keys that are themselves valid lexicon values. One notable exception is when the value is quite long. For example, to get the screenful of data that a command-line program might return when given an unknown switch, I often just use a brief, self-explanatory key such as "_USAGE_MESSAGE". At that point I then go and immediately to define that lexicon entry in the ProjectClass::L10N::en lexicon (since English is always my "project
language”):

' USAGE MESSAGE' => <<'EOSTUFF',
...long long message...
EOSTUFF

and then I can use it as:

getopt('oDI', %opts) or die $lh->maketext('_USAGE_MESSAGE');

Incidentally,

note that each class's C<%Lexicon> inherits-and-extends
the lexicons in its superclasses. This is not because these are
special hashes I<per se>, but because you access them via the
C<maketext> method, which looks for entries across all the
C<%Lexicon> hashes in a language class I<and> all its ancestor classes.
(This is because the idea of "class data" isn't directly implemented
in Perl, but is instead left to individual class-systems to implement
as they see fit.)

Note that you may have things stored in a lexicon
besides just phrases for output: for example, if your program
takes input from the keyboard, asking a "(Y/N)" question,
you probably need to know what the equivalent of "Y[es]/N[o]" is
in whatever language. You probably also need to know what
the equivalents of the answers "y" and "n" are. You can
store that information in the lexicon (say, under the keys
"~answer_y" and "~answer_n", and the long forms as
"~answer_yes" and "~answer_no", where "~" is just an ad-hoc
character meant to indicate to programmers/translators that
these are not phrases for output).

Or instead of storing this in the language class's lexicon,
you can (and, in some cases, really should) represent the same bit
of knowledge as code in a method in the language class. (That
leaves a tidy distinction between the lexicon as the things we
know how to I<say>, and the rest of the things in the lexicon class
as things that we know how to I<do>.) Consider
this example of a processor for responses to French "oui/non"
questions:

sub y_or_n {
    return undef unless defined $_[1] and length $_[1];
    my $answer = lc $_[1];  # smash case
    return 1 if $answer eq 'o' or $answer eq 'oui';
    return 0 if $answer eq 'n' or $answer eq 'non';
    return undef;
}
...which you'd then call in a construct like this:

```perl
my $response;
until(defined $response) {
    print $lh->maketext("Open the pod bay door (y/n)? ");
    $response = $lh->y_or_n( get_input_from_keyboard_somehow() );
}
if($response) { $pod_bay_door->open()         }
else          { $pod_bay_door->leave_closed() }
```

Other data worth storing in a lexicon might be things like filenames for language-targetted resources:

```perl
...
"_main_splash_png"
    => "/styles/en_us/main_splash.png",
"_main_splash_imagemap"
    => "/styles/en_us/main_splash.incl",
"_general_graphics_path"
    => "/styles/en_us/",
"_alert_sound"
    => "/styles/en_us/hey_there.wav",
"_forward_icon"
    => "left_arrow.png",
"_backward_icon"
    => "right_arrow.png",
# In some other languages, left equals
# BACKwards, and right is FOREwards.
...
```

You might want to do the same thing for expressing key bindings or the like (since hardwiring "q" as the binding for the function that quits a screen/menu/program is useful only if your language happens to associate "q" with "quit")!

=head1 BRACKET NOTATION

Bracket Notation is a crucial feature of Locale::Maketext. I mean Bracket Notation to provide a replacement for the use of sprintf formatting. Everything you do with Bracket Notation could be done with a sub block, but bracket notation is meant to be much more concise.

Bracket Notation is a like a miniature "template" system (in the sense of L<Text::Template|Text::Template>, not in the sense of C++ templates), where normal text is passed thru basically as is, but text in special regions is specially interpreted. In Bracket Notation, you use square brackets ('[...]'), not curly braces ('{...}') to note sections that are specially interpreted.
For example, here all the areas that are taken literally are underlined with a "^", and all the in-bracket special regions are underlined with an X:

"Minimum ([_1]) is larger than maximum ([_2])!n",
^^^^^^^^^ XX ^^^^^^^^^^^^^^^^^^^^^^^^^^ XX ^^^^

When that string is compiled from bracket notation into a real Perl sub, it's basically turned into:

sub {
    my $lh = $_[0];
    my @params = @_;
    return join ",
    "Minimum (",
    ...
    ")!n",
}
# to be called by $lh->maketext(KEY, params...)

In other words, text outside bracket groups is turned into string literals. Text in brackets is rather more complex, and currently follows these rules:

=over

=item *

Bracket groups that are empty, or which consist only of whitespace, are ignored. (Examples: "[]", "[ ]", or a [ and a ] with returns and/or tabs and/or spaces between them.

Otherwise, each group is taken to be a comma-separated group of items, and each item is interpreted as follows:

=item *

An item that is "-_I<digits>" or "-_I<digits>" is interpreted as $_[I<value>]. I.e., "-_1" becomes with $_[1], and "-_3" is interpreted as $_[3] (in which case @_ should have at least three elements in it). Note that $_[0] is the language handle, and is typically not named directly.

=item *

An item "-_#" is interpreted to mean "all of @_ except $_[0]".

I.e., C<@_[1..$#]>. Note that this is an empty list in the case of calls like $lh->maketext(I<key>) where there are no parameters (except $_[0], the language handle).

=item *

Otherwise, each item is interpreted as a string literal.

=back

The group as a whole is interpreted as follows:

=over

=item *

If the first item in a bracket group looks like a method name, then that group is interpreted like this:

$lh->that_method_name(
   ...rest of items in this group...
 ),

=item *

If the first item in a bracket group is "*", it's taken as shorthand for the so commonly called "quant" method. Similarly, if the first item in a bracket group is "#", it's taken to be shorthand for "numf".

=item *

If the first item in a bracket group is the empty-string, or "_" or "_I<digits>" or "_I<digits>", then that group is interpreted as just the interpolation of all its items:

join('',
   ...rest of items in this group...
 ),

Examples: "[_1]" and "[,_1]", which are synonymous; and "C<_[ID-(_-4,_-2)]>'", which compiles as C<join '', "ID-(", $_[4], ",", $_[2], ")'">.

=item *

Otherwise this bracket group is invalid. For example, in the group "[!@#$whatever]", the first item C<"!@#"> is neither the empty-string,
"_I<number>", "_I<number>"", "_*", nor a valid method name; and so Locale::Maketext will throw an exception of you try compiling an expression containing this bracket group.

=back

Note, incidentally, that items in each group are comma-separated, not C<s/s*,s*/>-separated. That is, you might expect that this bracket group:

"Hoohah [foo, _1 , bar ,baz]!"

would compile to this:

```perl
sub {
    my $lh = $_[0];
    return join '',
               "Hoohah ",
               $lh->foo( $_[1], "bar", "baz"),
               "!",
}
```

But it actually compiles as this:

```perl
sub {
    my $lh = $_[0];
    return join '',
               "Hoohah ",
               $lh->foo(" _1 ", " bar ", "baz"),  # note the <space> in " bar 
               "!",
}
```

In the notation discussed so far, the characters "[" and "]" are given special meaning, for opening and closing bracket groups, and "," has a special meaning inside bracket groups, where it separates items in the group. This begs the question of how you'd express a literal "[" or "]" in a Bracket Notation string, and how you'd express a literal comma inside a bracket group. For this purpose I've adopted "~" (tilde) as an escape character: "~[" means a literal '[' character anywhere in Bracket Notation (i.e., regardless of whether you're in a bracket group or not), and ditto for "~]" meaning a literal ']', and "~," meaning a literal comma. (Altho "," means a literal comma outside of bracket groups -- it's only inside bracket groups that commas are special.)

And on the off chance you need a literal tilde in a bracket expression, you get it with "~~".

Currently, an unescaped "~" before a character
other than a bracket or a comma is taken to mean just a "~" and that character. I.e., "~X" means the same as "~~X" -- i.e., one literal tilde, and then one literal "X". However, by using "~X", you are assuming that no future version of Maketext will use "~X" as a magic escape sequence. In practice this is not a great problem, since first off you can just write "~~X" and not worry about it; second off, I doubt I'll add lots of new magic characters to bracket notation; and third off, you aren't likely to want literal "~" characters in your messages anyway, since it's not a character with wide use in natural language text.

Brackets must be balanced -- every openbracket must have one matching closebracket, and vice versa. So these are all invalid:

"I ate [quant._1,rhubarb pie."
"I ate [quant._1,rhubarb pie[."
"I ate quant._1,rhubarb pie]."
"I ate quant._1,rhubarb pie[."

Currently, bracket groups do not nest. That is, you cannot say:

"Foo [bar,baz,[quux,quuux]]\n"

If you need a notation that's that powerful, use normal Perl:

%Lexicon = ( ... 
 "some_key" => sub { 
  my $lh = $_[0]; 
  join ",", 
  "Foo ", $lh->bar('baz', $lh->quux('quuux')), 
  "%n", 
 }, ... );

Or write the "bar" method so you don't need to pass it the output from calling quux.

I do not anticipate that you will need (or particularly want) to nest bracket groups, but you are welcome to email me with convincing (real-life) arguments to the contrary.

=head1 BRACKET NOTATION SECURITY

Locale::Maketext does not use any special syntax to differentiate bracket notation methods from normal class or object methods. This design makes it vulnerable to format string attacks whenever it is
used to process strings provided by untrusted users.

Locale::Maketext does support blacklist and whitelist functionality to limit which methods may be called as bracket notation methods.

By default, Locale::Maketext blacklists all methods in the Locale::Maketext namespace that begin with the '_' character, and all methods which include Perl's namespace separator characters.

The default blacklist for Locale::Maketext also prevents use of the following methods in bracket notation:

blacklist
encoding
fail_with
failure_handler_auto
fallback_language_classes
fallback_languages
get_handle
init
language_tag
maketext
new
whitelist

This list can be extended by either blacklisting additional "known bad" methods, or whitelisting only "known good" methods.

To prevent specific methods from being called in bracket notation, use the blacklist() method:

my $lh = MyProgram::L10N->get_handle();
$lh->blacklist(qw{my_internal_method my_other_method});
$lh->maketext('[my_internal_method]'); # dies

To limit the allowed bracketed notation methods to a specific list, use the whitelist() method:

my $lh = MyProgram::L10N->get_handle();
$lh->whitelist('numerate', 'numf');
$lh->maketext(['_1'] [numerate, _1,shoe,shoes], 12); # works
$lh->maketext(['my_internal_method']); # dies

The blacklist() and whitelist() methods extend their internal lists whenever they are called. To reset the blacklist or whitelist, create a new maketext object.

my $lh = MyProgram::L10N->get_handle();
For lexicons that use an internal cache, translations which have already been cached in their compiled form are not affected by subsequent changes to the whitelist or blacklist settings. Lexicons that use an external cache will have their cache cleared whenever the whitelist of blacklist settings change. The difference between the two types of caching is explained in the "Readonly Lexicons" section.

Methods disallowed by the blacklist cannot be permitted by the whitelist.

=head1 AUTO LEXICONS

If maketext goes to look in an individual %Lexicon for an entry for I<key> (where I<key> does not start with an underscore), and sees none, B<but does see> an entry of "_AUTO" => I<some_true_value>, then we actually define $Lexicon{I<key> = I<key> right then and there, and then use that value as if it had been there all along. This happens before we even look in any superclass %Lexicons!

(This is meant to be somewhat like the AUTOLOAD mechanism in Perl's function call system -- or, looked at another way, like the L<AutoLoader|AutoLoader> module.)

I can picture all sorts of circumstances where you just do not want lookup to be able to fail (since failing normally means that maketext throws a C<die>, although see the next section for greater control over that). But here's one circumstance where _AUTO lexicons are meant to be I<especially> useful:

As you're writing an application, you decide as you go what messages you need to emit. Normally you'd go to write this:

    if(-e $filename) {
        go_process_file($filename)
    } else {
        print qq{Couldn't find file "$filename"!
    }

but since you anticipate localizing this, you write:

    use ThisProject::I18N;
    my $lh = ThisProject::I18N->get_handle();
    # For the moment, assume that things are set up so
# that we load class ThisProject::I18N::en
# and that that's the class that $lh belongs to.
...
if(-e $filename) {
  go_process_file($filename)
} else {
  print $lh->maketext(
    qq{Couldn't find file "[_1]"!
}, $filename
  );
}

Now, right after you've just written the above lines, you'd normally have to go open the file ThisProject/I18N/en.pm, and immediately add an entry:

"Couldn't find file "[_1]"!
" => "Couldn't find file "[_1]"!
",

But I consider that somewhat of a distraction from the work of getting the main code working -- to say nothing of the fact that I often have to play with the program a few times before I can decide exactly what wording I want in the messages (which in this case would require me to go changing three lines of code: the call to maketext with that key, and then the two lines in ThisProject/I18N/en.pm).

However, if you set "_AUTO => 1" in the %Lexicon in, ThisProject/I18N/en.pm (assuming that English (en) is the language that all your programmers will be using for this project's internal message keys), then you don't ever have to go adding lines like this

"Couldn't find file "[_1]"!
" => "Couldn't find file "[_1]"!
",

to ThisProject/I18N/en.pm, because if _AUTO is true there, then just looking for an entry with the key "Couldn't find file "[_1]"!
" in that lexicon will cause it to be added, with that value!

Note that the reason that keys that start with "_" are immune to _AUTO isn't anything generally magical about the underscore character -- I just wanted a way to have most lexicon keys be autoable, except for possibly a few, and I arbitrarily decided to use a leading underscore as a signal to distinguish those few.

=head1 READONLY LEXICONS
If your lexicon is a tied hash the simple act of caching the compiled value can be fatal.

For example a L<GDBM_File> GDBM_READER tied hash will die with something like:

    gdbm store returned -1, errno 2, key "..." at ...

All you need to do is turn on caching outside of the lexicon hash itself like so:

    sub init {
      my ($lh) = @_;
      ...
      $lh->{'use_external_lex_cache'} = 1;
      ...
    }

And then instead of storing the compiled value in the lexicon hash it will store it in $lh->{'_external_lex_cache'}

=head1 CONTROLLING LOOKUP FAILURE

If you call $lh->maketext(I<key>, ...parameters...),
and there's no entry I<key> in $lh's class's %Lexicon, nor
in the superclass %Lexicon hash, I<and> if we can't auto-make
I<key> (because either it starts with a "._", or because none
of its lexicons have C<_AUTO =E<gt> 1,>), then we have
failed to find a normal way to maketext I<key>. What then
happens in these failure conditions, depends on the $lh object's
"fail" attribute.

If the language handle has no "fail" attribute, maketext
will simply throw an exception (i.e., it calls C<die>, mentioning
the I<key> whose lookup failed, and naming the line number where
the calling $lh->maketext(I<key>,....) was.

If the language handle has a "fail" attribute whose value is a
coderef, then $lh->maketext(I<key>,....params...) gives up and calls:

    return $that_subref->($lh, $key, @params);

Otherwise, the "fail" attribute's value should be a string denoting
a method name, so that $lh->maketext(I<key>,....params...) can
give up with:

    return $lh->$that_method_name($phrase, @params);

The "fail" attribute can be accessed with the C<fail_with> method:

    # Set to a coderef:
$lh->fail_with('failure_handler '');

# Set to a method name:
$lh->fail_with('failure_method');

# Set to nothing (i.e., so failure throws a plain exception)
$lh->fail_with(undef);

# Get the current value
$handler = $lh->fail_with();

Now, as to what you may want to do with these handlers: Maybe you’d
want to log what key failed for what class, and then die. Maybe
you don’t like C<die> and instead you want to send the error message
to STDOUT (or wherever) and then merely C<exit()>.

Or maybe you don’t want to C<die> at all! Maybe you could use a
handler like this:

# Make all lookups fall back onto an English value,
# but only after we log it for later fingerpointing.
my $lh_backup = ThisProject->get_handle('en');
open(LEX_FAIL_LOG, ">>wherever/lex.log") || die "GNAARGH $!";
sub lex_fail {
    my($failing_lh, $key, @params) = @_;   
    print LEX_FAIL_LOG scalar(localtime), "	",
    ref($failing_lh), "\t", $key, "\n";
    return $lh_backup->maketext($key,@params);
}

Some users have expressed that they think this whole mechanism of
having a "fail" attribute at all, seems a rather pointless complication.
But I want Locale::Maketext to be usable for software projects of I<any>
scale and type; and different software projects have different ideas
of what the right thing is to do in failure conditions. I could simply
say that failure always throws an exception, and that if you want to be
careful, you’ll just have to wrap every call to $lh->maketext in an
S<eval { }>. However, I want programmers to reserve the right (via
the "fail" attribute) to treat lookup failure as something other than
an exception of the same level of severity as a config file being
unreadable, or some essential resource being inaccessible.

One possibly useful value for the "fail" attribute is the method name
"failure_handler_auto". This is a method defined in the class
Locale::Maketext itself. You set it with:

$lh->fail_with('failure_handler_auto');
Then when you call $lh->maketext(I<key>, ...parameters...) and there's no I<key> in any of those lexicons, maketext gives up with

    return $lh->failure_handler_auto($key, @params);

But failure_handler_auto, instead of dying or anything, compiles $key, caching it in

    $lh->{'failure_lex'}{$key} = $compiled

and then calls the compiled value, and returns that. (I.e., if $key looks like bracket notation, $compiled is a sub, and we return &{$compiled}(@params); but if $key is just a plain string, we just return that.)

The effect of using "failure_auto_handler"

is like an AUTO lexicon, except that it 1) compiles $key even if it starts with "_", and 2) you have a record in the new hashref $lh->{'failure_lex'} of all the keys that have failed for this object. This should avoid your program dying -- as long as your keys aren't actually invalid as bracket code, and as long as they don't try calling methods that don't exist.

"failure_auto_handler" may not be exactly what you want, but I hope it at least shows you that maketext failure can be mitigated in any number of very flexible ways. If you can formalize exactly what you want, you should be able to express that as a failure handler. You can even make it default for every object of a given class, by setting it in that class's init:

    sub init {
      my $lh = $_[0];  # a newborn handle
      $lh->SUPER::init();
      $lh->fail_with('my_clever_failure_handler');
      return;
    }
    sub my_clever_failure_handler {
      ...you clever things here...
    }

=head1 HOW TO USE MAKETEXT

Here is a brief checklist on how to use Maketext to localize applications:

=over

=item *


Decide what system you'll use for lexicon keys. If you insist, you can use opaque IDs (if you're nostalgic for C<catgets>), but I have better suggestions in the section "Entries in Each Lexicon", above. Assuming you opt for meaningful keys that double as values (like "Minimum ([_1]) is larger than maximum ([_2])!
"), you'll have to settle on what language those should be in. For the sake of argument, I'll call this English, specifically American English, "en-US".

Create a class for your localization project. This is the name of the class that you'll use in the idiom:

use Projname::L10N;
my $lh = Projname::L10N->get_handle(...) || die "Language?";

Assuming you call your class Projname::L10N, create a class consisting minimally of:

package Projname::L10N;
use base qw(Locale::Maketext);
...any methods you might want all your languages to share...

# And, assuming you want the base class to be an _AUTO lexicon, # as is discussed a few sections up:

1;

Create a class for the language your internal keys are in. Name the class after the language-tag for that language, in lowercase, with dashes changed to underscores. Assuming your project's first language is US English, you should call this Projname::L10N::en_us. It should consist minimally of:

package Projname::L10N::en_us;
use base qw(Projname::L10N);
%Lexicon = ( 
  '_AUTO' => 1, 
);
1;

(For the rest of this section, I'll assume that this "first language class" of Projname::L10N::en_us has _AUTO lexicon.)
Go and write your program. Everywhere in your program where you would say:

```perl
print "Foobar $thing stuff
";
```

instead do it thru maketext, using no variable interpolation in the key:

```perl
print $lh->maketext("Foobar [_1] stuff
", $thing);
```

If you get tired of constantly saying `$lh->maketext` consider making a functional wrapper for it, like so:

```perl
use Projname::L10N;
use vars qw($lh);
$lh = Projname::L10N->get_handle(...) || die "Language?";
sub pmt (@) { print( $lh->maketext(@_)) }
# "pmt" is short for "Print MakeText"
$Carp::Verbose = 1;
# so if maketext fails, we see made the call to pmt
```

Besides whole phrases meant for output, anything language-dependent should be put into the class Projname::L10N::en_us, whether as methods, or as lexicon entries -- this is discussed in the section "Entries in Each Lexicon", above.

Once the program is otherwise done, and once its localization for the first language works right (via the data and methods in Projname::L10N::en_us), you can get together the data for translation. If your first language lexicon isn't an _AUTO lexicon, then you already have all the messages explicitly in the lexicon (or else you'd be getting exceptions thrown when you call $lh->maketext to get messages that aren't in there). But if you were (advisedly) lazy and are using an _AUTO lexicon, then you've got to make a list of all the phrases that you've so far been letting _AUTO generate for you. There are very many ways to assemble such a list. The most straightforward is to simply grep the source for every occurrence of "maketext" (or calls to wrappers around it, like the above `$pmt` function), and to log the following phrase.

You may at this point want to consider whether your base class
(Projname::L10N), from which all lexicons inherit from (Projname::L10N::en, Projname::L10N::es, etc.), should be an _AUTO lexicon. It may be true that in theory, all needed messages will be in each language class; but in the presumably unlikely or "impossible" case of lookup failure, you should consider whether your program should throw an exception, emit text in English (or whatever your project's first language is), or some more complex solution as described in the section "Controlling Lookup Failure", above.

=item *

Submit all messages/phrases/etc. to translators.

(You may, in fact, want to start with localizing to I<one> other language at first, if you're not sure that you've properly abstracted the language-dependent parts of your code.)

Translators may request clarification of the situation in which a particular phrase is found. For example, in English we are entirely happy saying "I<n> files found", regardless of whether we mean "I looked for files, and found I<n> of them" or the rather distinct situation of "I looked for something else (like lines in files), and along the way I saw I<n> files." This may involve rethinking things that you thought quite clear: should "Edit" on a toolbar be a noun ("editing") or a verb ("to edit")? Is there already a conventionalized way to express that menu option, separate from the target language's normal word for "to edit"?

In all cases where the very common phenomenon of quantification (saying "I<N> files", for B<any> value of N) is involved, each translator should make clear what dependencies the number causes in the sentence. In many cases, dependency is limited to words adjacent to the number, in places where you might expect them ("I found the-?PLURAL I<N> empty-?PLURAL directory-?PLURAL"), but in some cases there are unexpected dependencies ("I found-?PLURAL ..."!) as well as long-distance dependencies "The I<N> directory-?PLURAL could not be deleted-?PLURAL"!).

Remind the translators to consider the case where N is 0: "0 files found" isn't exactly natural-sounding in any language, but it may be unacceptable in many -- or it may condition special kinds of agreement (similar to English "I didN'T find ANY files").

Remember to ask your translators about numeral formatting in their language, so that you can override the C<numf> method as appropriate. Typical variables in number formatting are: what to use as a decimal point (comma? period?); what to use as a thousands separator (space? nonbreaking space? comma? period? small middot? prime? apostrophe?); and even whether the so-called "thousands
"separator" is actually for every third digit -- I've heard reports of
two hundred thousand being expressible as "2,00,000" for some Indian
(Subcontinental) languages, besides the less surprising "S<200 000>",
"200,000", "200,000", and "200'000". Also, using a set of numeral
glyphs other than the usual ASCII "0"-"9" might be appreciated, as via
C<tr/0-9/\x{0966}-\x{096F}/> for getting digits in Devanagari script
(for Hindi, Konkani, others).

The basic C<quant> method that Locale::Maketext provides should be
good for many languages. For some languages, it might be useful
to modify it (or its constituent C<numerate> method)
to take a plural form in the two-argument call to C<quant>
(as in "[quant,_1,files]") if
it's all-around easier to infer the singular form from the plural, than
to infer the plural form from the singular.

But for other languages (as is discussed at length
in L<Locale::Maketext::TPJ13|Locale::Maketext::TPJ13>), simple
C<quant>/C<numf> is not enough. For the particularly problematic
Slavic languages, what you may need is a method which you provide
with the number, the citation form of the noun to quantify, and
the case and gender that the sentence's syntax projects onto that
noun slot. The method would then be responsible for determining
what grammatical number that numeral projects onto its noun phrase,
and what case and gender it may override the normal case and gender
with; and then it would look up the noun in a lexicon providing
all needed inflected forms.

=item *

You may also wish to discuss with the translators the question of
how to relate different subforms of the same language tag,
considering how this reacts with C<get_handle>‘s treatment of
these. For example, if a user accepts interfaces in "en, fr", and
you have interfaces available in "en-US" and "fr", what should
they get? You may wish to resolve this by establishing that "en"
and "en-US" are effectively synonymous, by having one class
zero-derive from the other.

For some languages this issue may never come up (Danish is rarely
expressed as "da-DK", but instead is just "da"). And for other
languages, the whole concept of a "generic" form may verge on
being uselessly vague, particularly for interfaces involving voice
media in forms of Arabic or Chinese.

=item *

Once you've localized your program/site/etc. for all desired
languages, be sure to show the result (whether live, or via
screenshots) to the translators. Once they approve, make every
effort to have it then checked by at least one other speaker of
that language. This holds true even when (or especially when) the
translation is done by one of your own programmers. Some
kinds of systems may be harder to find testers for than others,
depending on the amount of domain-specific jargon and concepts
involved -- it's easier to find people who can tell you whether
they approve of your translation for "delete this message" in an
email-via-Web interface, than to find people who can give you
an informed opinion on your translation for "attribute value"
in an XML query tool's interface.

=back

=head1 SEE ALSO

I recommend reading all of these:

L<Locale::Maketext::TPJ13|Locale::Maketext::TPJ13> -- my I<The Perl
Journal> article about Maketext. It explains many important concepts
underlying Locale::Maketext's design, and some insight into why
Maketext is better than the plain old approach of having
message catalogs that are just databases of sprintf formats.

L<File::Findgrep|File::Findgrep> is a sample application/module
that uses Locale::Maketext to localize its messages. For a larger
internationalized system, see also L<Apache::MP3>.

L<I18N::LangTags|I18N::LangTags>.

L<Win32::Locale|Win32::Locale>.

RFC 3066, I<Tags for the Identification of Languages>,
as at http://sunsite.dk/RFC/rfc/rfc3066.html

RFC 2277, I<IETF Policy on Character Sets and Languages>
is at http://sunsite.dk/RFC/rfc/rfc2277.html -- much of it is
just things of interest to protocol designers, but it explains
some basic concepts, like the distinction between locales and
language-tags.

The manual for GNU C<gettext>. The gettext dist is available in
C<ftp://prep.ai.mit.edu/pub/gnu/> -- get
a recent gettext tarball and look in its "doc/" directory, there's
an easily browsable HTML version in there. The
gettext documentation asks lots of questions worth thinking
about, even if some of their answers are sometimes wonky,
particularly where they start talking about pluralization.

The Locale/Maketext.pm source. Observe that the module is much shorter than its documentation!

=head1 COPYRIGHT AND DISCLAIMER

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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

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=cut

Found in path(s):
* /opt/cola/permits/1139282581_1614508079.72/0/perl-Locale-Maketext-1.28-396.el8-1.src.rpm-cosi-expand-archive-0YfnUF3M/Locale-Maketext-1.28.tar.gz-cosi-expand-archive-jL5r7xxx/Locale-Maketext-1.28/lib/Locale/Maketext.pod
No license file was found, but licenses were detected in source scan.

# This document contains text in Perl "POD" format.
# Use a POD viewer like perldoc or perlman to render it.

=head1 NAME

Locale::Maketext::TPJ13 -- article about software localization

=head1 SYNOPSIS

# This an article, not a module.

=head1 DESCRIPTION

The following article by Sean M. Burke and Jordan Lachler first appeared in The Perl Journal #13 and is copyright 1999 The Perl Journal. It appears courtesy of Jon Orwant and The Perl Journal. This document may be distributed under the same terms as Perl itself.

=head1 Localization and Perl: gettext breaks, Maketext fixes
This article points out cases where gettext (a common system for localizing software interfaces -- i.e., making them work in the user's language of choice) fails because of basic differences between human languages. This article then describes Maketext, a new system capable of correctly treating these differences.

=head2 A Localization Horror Story: It Could Happen To You

"There are a number of languages spoken by human beings in this world."

-- Harald Tveit Alvestrand, in RFC 1766, "Tags for the Identification of Languages"

Imagine that your task for the day is to localize a piece of software -- and luckily for you, the only output the program emits is two messages, like this:

I scanned 12 directories.

Your query matched 10 files in 4 directories.

So how hard could that be? You look at the code that produces the first item, and it reads:

printf("I scanned %g %s.",
       $directory_count,
       $directory_count == 1 ?
       "directory" : "directories",
   );

You think about that, and realize that it doesn't even work right for English, as it can produce this output:

I scanned 1 directories.

So you rewrite it to read:

printf("I scanned %g %s.",
       $directory_count,
       $directory_count == 1 ?
       "directory" : "directories",
   );
...which does the Right Thing. (In case you don't recall, "%g" is for locale-specific number interpolation, and "%s" is for string interpolation.)

But you still have to localize it for all the languages you're producing this software for, so you pull Locale::gettext off of CPAN so you can access the C<gettext> C functions you've heard are standard for localization tasks.

And you write:

```c
printf(gettext("I scanned %g %s."),
$dir_scan_count,
$dir_scan_count == 1 ?
gettext("directory") : gettext("directories"),
);
```

But you then read in the gettext manual (Drepper, Miller, and Pinard 1995) that this is not a good idea, since how a single word like “directory” or “directories” is translated may depend on context -- and this is true, since in a case language like German or Russian, you'd may need these words with a different case ending in the first instance (where the word is the object of a verb) than in the second instance, which you haven't even gotten to yet (where the word is the object of a preposition, "in %g directories") -- assuming these keep the same syntax when translated into those languages.

So, on the advice of the gettext manual, you rewrite:

```c
printf( $dir_scan_count == 1 ?
gettext("I scanned %g directory.") :
gettext("I scanned %g directories."),
$dir_scan_count );
```

So, you email your various translators (the boss decides that the languages du jour are Chinese, Arabic, Russian, and Italian, so you have one translator for each), asking for translations for "I scanned %g directory." and "I scanned %g directories.". When they reply, you'll put that in the lexicons for gettext to use when it localizes your software, so that when the user is running under the “zh” (Chinese) locale, gettext("I scanned %g directory.") will return the appropriate Chinese text, with a "%g" in there where printf can then interpolate $dir_scan.

Your Chinese translator emails right back -- he says both of these phrases translate to the same thing in Chinese, because, in linguistic jargon, Chinese "doesn't have number as a grammatical category" -- whereas English does. That is, English has grammatical rules that
refer to "number", i.e., whether something is grammatically singular or plural; and one of these rules is the one that forces nouns to take a plural suffix (generally "s") when in a plural context, as they are when they follow a number other than "one" (including, oddly enough, "zero"). Chinese has no such rules, and so has just the one phrase where English has two. But, no problem, you can have this one Chinese phrase appear as the translation for the two English phrases in the "zh" gettext lexicon for your program.

Emboldened by this, you dive into the second phrase that your software needs to output: "Your query matched 10 files in 4 directories.". You notice that if you want to treat phrases as indivisible, as the gettext manual wisely advises, you need four cases now, instead of two, to cover the permutations of singular and plural on the two items, $dir_count and $file_count. So you try this:

```c
printf( $file_count == 1 ?
    ( $directory_count == 1 ?
        gettext("Your query matched %g file in %g directory.") :
        gettext("Your query matched %g file in %g directories.") ) :
    ( $directory_count == 1 ?
        gettext("Your query matched %g files in %g directory.") :
        gettext("Your query matched %g files in %g directories.") ) ),
    $file_count, $directory_count,
);```

(The case of "1 file in 2 [or more] directories" could, I suppose, occur in the case of symlinking or something of the sort.)

It occurs to you that this is not the prettiest code you've ever written, but this seems the way to go. You mail off to the translators asking for translations for these four cases. The Chinese guy replies with the one phrase that these all translate to in Chinese, and that phrase has two "%g"s in it, as it should -- but there's a problem. He translates it word-for-word back: "In %g directories contains %g files match your query." The %g slots are in an order reverse to what they are in English. You wonder how you'll get gettext to handle that.

But you put it aside for the moment, and optimistically hope that the other translators won't have this problem, and that their languages will be better behaved -- i.e., that they will be just like English.

But the Arabic translator is the next to write back. First off, your code for "I scanned %g directory." or "I scanned %g directories." assumes there's only singular or plural. But, to use linguistic jargon again, Arabic has grammatical number, like English (but unlike Chinese), but it's a three-term category: singular, dual, and plural.
In other words, the way you say "directory" depends on whether there's one directory, or I<two> of them, or I<more than two> of them. Your test of C<($directory == 1)> no longer does the job. And it means that where English's grammatical category of number necessitates only the two permutations of the first sentence based on "directory [singular]" and "directories [plural]", Arabic has three -- and, worse, in the second sentence ("Your query matched %g file in %g directory."), where English has four, Arabic has nine. You sense an unwelcome, exponential trend taking shape.

Your Italian translator emails you back and says that "I searched 0 directories" (a possible English output of your program) is stilted, and if you think that's fine English, that's your problem, but that I<just will not do> in the language of Dante. He insists that where $directory_count is 0, your program should produce the Italian text for "I I<didn't> scan I<any> directories." And ditto for "I didn't match any files in any directories", although he says the last part about "in any directories" should probably just be left off.

You wonder how you'll get gettext to handle this; to accommodate the ways Arabic, Chinese, and Italian deal with numbers in just these few very simple phrases, you need to write code that will ask gettext for different queries depending on whether the numerical values in question are 1, 2, more than 2, or in some cases 0, and you still haven't figured out the problem with the different word order in Chinese.

Then your Russian translator calls on the phone, to I<personally> tell you the bad news about how really unpleasant your life is about to become:

Russian, like German or Latin, is an inflectional language; that is, nouns and adjectives have to take endings that depend on their case (i.e., nominative, accusative, genitive, etc...) -- which is roughly a matter of what role they have in syntax of the sentence -- as well as on the grammatical gender (i.e., masculine, feminine, neuter) and number (i.e., singular or plural) of the noun, as well as on the declension class of the noun. But unlike with most other inflected languages, putting a number-phrase (like "ten" or "forty-three", or their Arabic numeral equivalents) in front of noun in Russian can change the case and number that noun is, and therefore the endings you have to put on it.

He elaborates: In "I scanned %g directories", you'd I<expect> "directories" to be in the accusative case (since it is the direct object in the sentence) and the plural number, except where $directory_count is 1, then you'd expect the singular, of course. Just like Latin or German. I<But!> Where $directory_count % 10 is 1 ("%" for modulo, remember), assuming $directory_count is an integer, and except where $directory_count % 100 is 11, "directories"
is forced to become grammatically singular, which means it gets the ending for the accusative singular... You begin to visualize the code it'd take to test for the problem so far, I<and still work for Chinese and Arabic and Italian>, and how many gettext items that'd take, but he keeps going... But where $directory_count % 10 is 2, 3, or 4 (except where $directory_count % 100 is 12, 13, or 14), the word for "directories" is forced to be genitive singular -- which means another ending... The room begins to spin around you, slowly at first... But with I<all other> integer values, since "directory" is an inanimate noun, when preceded by a number and in the nominative or accusative cases (as it is here, just your luck!), it does stay plural, but it is forced into the genitive case -- yet another ending... And you never hear him get to the part about how you're going to run into similar (but maybe subtly different) problems with other Slavic languages like Polish, because the floor comes up to meet you, and you fade into unconsciousness.

The above cautionary tale relates how an attempt at localization can lead from programmer consternation, to program obfuscation, to a need for sedation. But careful evaluation shows that your choice of tools merely needed further consideration.

=head2 The Linguistic View

=over

"It is more complicated than you think."

-- The Eighth Networking Truth, from RFC 1925

=back

The field of Linguistics has expended a great deal of effort over the past century trying to find grammatical patterns which hold across languages; it's been a constant process of people making generalizations that should apply to all languages, only to find out that, all too often, these generalizations fail -- sometimes failing for just a few languages, sometimes whole classes of languages, and sometimes nearly every language in the world except English. Broad statistical trends are evident in what the "average language" is like as far as what its rules can look like, must look like, and cannot look like. But the "average language" is just as unreal a concept as the "average person" -- it runs up against the fact no language (or person) is, in fact, average. The wisdom of past experience leads us to believe that any given language can do whatever it wants, in any order, with appeal to any kind of grammatical categories wants -- case, number, tense, real or metaphoric
characteristics of the things that words refer to, arbitrary or predictable classifications of words based on what endings or prefixes they can take, degree or means of certainty about the truth of statements expressed, and so on, ad infinitum.

Mercifully, most localization tasks are a matter of finding ways to translate whole phrases, generally sentences, where the context is relatively set, and where the only variation in content is in a number being expressed -- as in the example sentences above. Translating specific, fully-formed sentences is, in practice, fairly foolproof -- which is good, because that's what's in the phrasebooks that so many tourists rely on. Now, a given phrase (whether in a phrasebook or in a gettext lexicon) in one language might have a greater or lesser applicability than that phrase's translation into another language -- for example, strictly speaking, in Arabic, the "your" in "Your query matched..." would take a different form depending on whether the user is male or female; so the Arabic translation "your[feminine] query" is applicable in fewer cases than the corresponding English phrase, which doesn't distinguish the user's gender. (In practice, it's not feasible to have a program know the user's gender, so the masculine "you" in Arabic is usually used, by default.)

But in general, such surprises are rare when entire sentences are being translated, especially when the functional context is restricted to that of a computer interacting with a user either to convey a fact or to prompt for a piece of information. So, for purposes of localization, translation by phrase (generally by sentence) is both the simplest and the least problematic.

=head2 Breaking gettext

=over

"It Has To Work."

-- First Networking Truth, RFC 1925

=back

Consider that sentences in a tourist phrasebook are of two types: ones like "How do I get to the marketplace?" that don't have any blanks to fill in, and ones like "How much do these ___ cost?", where there's one or more blanks to fill in (and these are usually linked to a list of words that you can put in that blank: "fish", "potatoes", "tomatoes", etc.) The ones with no blanks are no problem, but the fill-in-the-blank ones may not be really straightforward. If it's a Swahili phrasebook, for example, the authors probably didn't bother to
tell you the complicated ways that the verb "cost" changes its inflectional prefix depending on the noun you're putting in the blank. The trader in the marketplace will still understand what you're saying if you say "how much do these potatoes cost?" with the wrong inflectional prefix on "cost". After all, I can't speak proper Swahili, just a tourist. But while tourists can be stupid, computers are supposed to be smart; the computer should be able to fill in the blank, and still have the results be grammatical.

In other words, a phrasebook entry takes some values as parameters (the things that you fill in the blank or blanks), and provides a value based on these parameters, where the way you get that final value from the given values can, properly speaking, involve an arbitrarily complex series of operations. (In the case of Chinese, it'd be not at all complex, at least in cases like the examples at the beginning of this article; whereas in the case of Russian it'd be a rather complex series of operations. And in some languages, the complexity could be spread around differently: while the act of putting a number-expression in front of a noun phrase might not be complex by itself, it may change how you have to, for example, inflect a verb elsewhere in the sentence. This is what in syntax is called "long-distance dependencies").

This talk of parameters and arbitrary complexity is just another way to say that an entry in a phrasebook is what in a programming language would be called a "function". Just so you don't miss it, this is the crux of this article: A phrase is a function; a phrasebook is a bunch of functions.

The reason that using gettext runs into walls (as in the above second-person horror story) is that you're trying to use a string (or worse, a choice among a bunch of strings) to do what you really need a function for -- which is futile. Preforming (s)printf interpolation on the strings which you get back from gettext does allow you to do some common things passably well... sometimes... sort of; but, to paraphrase what some people say about C script programming, "it fools you into thinking you can use it for real things, but you can't, and you don't discover this until you've already spent too much time trying, and by then it's too late."

=head2 Replacing gettext

So, what needs to replace gettext is a system that supports lexicons of functions instead of lexicons of strings. An entry in a lexicon from such a system should look like this:

"J'ai trouv\xE9 %g fichiers dans %g r\xE9pertoires"
but instead like this, bearing in mind that this is just a first stab:

```perl
sub I_found_X1_files_in_X2_directories {
    my( $files, $dirs ) = @_[0,1];
    $files = sprintf("%g %s", $files,
        $files == 1 ? 'fichier' : 'fichiers');
    $dirs = sprintf("%g %s", $dirs,
        $dirs == 1 ? "r\xE9pertoire" : "r\xE9pertoires");
    return "J'ai trouv\xE9 $files dans $dirs.";
}
```

Now, there's no particularly obvious way to store anything but strings in a gettext lexicon; so it looks like we just have to start over and make something better, from scratch. I call my shot at a gettext-replacement system "Maketext", or, in CPAN terms, Locale::Maketext.

When designing Maketext, I chose to plan its main features in terms of "buzzword compliance". And here are the buzzwords:

=head2 Buzzwords: Abstraction and Encapsulation

The complexity of the language you're trying to output a phrase in is entirely abstracted inside (and encapsulated within) the Maketext module for that interface. When you call:

```perl
print $lang->maketext("You have [quant,_1,piece] of new mail.",
    scalar(@messages));
```

you don't know (and in fact can't easily find out) whether this will involve lots of figuring, as in Russian (if $lang is a handle to the Russian module), or relatively little, as in Chinese. That kind of abstraction and encapsulation may encourage other pleasant buzzwords like modularization and stratification, depending on what design decisions you make.

=head2 Buzzword: Isomorphism

"Isomorphism" means "having the same structure or form"; in discussions of program design, the word takes on the special, specific meaning that your implementation of a solution to a problem I<has the same structure> as, say, an informal verbal description of the solution, or maybe of the problem itself. Isomorphism is, all things considered, a good thing -- it's what problem-solving (and solution-implementing) should look like.
What's wrong the with gettext-using code like this...

```c
printf( $file_count == 1 ?
    ( $directory_count == 1 ?
        "Your query matched %g file in %g directory."
      : "Your query matched %g file in %g directories."
    ) :
    ( $directory_count == 1 ?
        "Your query matched %g files in %g directory."
      : "Your query matched %g files in %g directories."
    ),
    $file_count, $directory_count,
    );
```

is first off that it's not well abstracted -- these ways of testing for grammatical number (as in the expressions like C<foo == 1 ?
singular_form : plural_form>) should be abstracted to each language module, since how you get grammatical number is language-specific.

But second off, it's not isomorphic -- the "solution" (i.e., the phrasebook entries) for Chinese maps from these four English phrases to the one Chinese phrase that fits for all of them. In other words, the informal solution would be "The way to say what you want in Chinese is with the one phrase 'For your question, in Y directories you would find X files'" -- and so the implemented solution should be, isomorphically, just a straightforward way to spit out that one phrase, with numerals properly interpolated. It shouldn't have to map from the complexity of other languages to the simplicity of this one.

=head2 Buzzword: Inheritance

There's a great deal of reuse possible for sharing of phrases between modules for related dialects, or for sharing of auxiliary functions between related languages. (By "auxiliary functions", I mean functions that don't produce phrase-text, but which, say, return an answer to "does this number require a plural noun after it?". Such auxiliary functions would be used in the internal logic of functions that actually do produce phrase-text.)

In the case of sharing phrases, consider that you have an interface already localized for American English (probably by having been written with that as the native locale, but that's incidental). Localizing it for UK English should, in practical terms, be just a matter of running it past a British person with the instructions to indicate what few phrases would benefit from a change in spelling or possibly minor rewording. In that case, you should be able to put in the UK English localization module I<only> those phrases that are UK-specific, and for all the rest, I<inherit> from the American English module. (And I expect this same situation would apply with
Brazilian and Continental Portuguese, possibly with some very closely related languages like Czech and Slovak, and possibly with the slightly different "versions" of written Mandarin Chinese, as I hear exist in Taiwan and mainland China.)

As to sharing of auxiliary functions, consider the problem of Russian numbers from the beginning of this article; obviously, you'd want to write only once the hairy code that, given a numeric value, would return some specification of which case and number a given quantified noun should use. But suppose that you discover, while localizing an interface for, say, Ukrainian (a Slavic language related to Russian, spoken by several million people, many of whom would be relieved to find that your Web site's or software's interface is available in their language), that the rules in Ukrainian are the same as in Russian for quantification, and probably for many other grammatical functions. While there may well be no phrases in common between Russian and Ukrainian, you could still choose to have the Ukrainian module inherit from the Russian module, just for the sake of inheriting all the various grammatical methods. Or, probably better organizationally, you could move those functions to a module called C<E_Slavic> or something, which Russian and Ukrainian could inherit useful functions from, but which would (presumably) provide no lexicon.

=head2 Buzzword: Concision

Okay, concision isn't a buzzword. But it should be, so I decree that as a new buzzword, "concision" means that simple common things should be expressible in very few lines (or maybe even just a few characters) of code -- call it a special case of "making simple things easy and hard things possible", and see also the role it played in the MIDI::Simple language, discussed elsewhere in this issue [TPJ#13].

Consider our first stab at an entry in our "phrasebook of functions":

```perl
sub I_found_X1_files_in_X2_directories {
  my( $files, $dirs ) = @_ [0,1];
  $files = sprintf("%g %s", $files,
                  $files == 1 ? 'fichier' : 'fichiers');
  $dirs = sprintf("%g %s", $dirs,
                 $dirs == 1 ? "r\xE9pertoire" : "r\xE9pertoires");
  return "J'ai trouv\xE9 $files dans $dirs.";
}
```

You may sense that a lexicon (to use a non-committal catch-all term for a collection of things you know how to say, regardless of whether they're phrases or words) consisting of functions I<expressed> as above would make for rather long-winded and repetitive code -- even if you wisely rewrote this to have quantification (as we call adding a number
expression to a noun phrase) be a function called like:

```
sub I_found_X1_files_in_X2_directories {
    my( $files, $dirs ) = @_[0,1];
    $files = quant($files, "fichier");
    $dirs = quant($dirs, "rEfertoire");
    return "J'ai trouvE9 $files dans $dirs.";
}
```

And you may also sense that you do not want to bother your translators with having to write Perl code -- you'd much rather that they spend their very costly time on just translation. And this is to say nothing of the near impossibility of finding a commercial translator who would know even simple Perl.

In a first-hack implementation of Maketext, each language-module's lexicon looked like this:

```
%Lexicon = (  
    "I found %g files in %g directories" => sub {  
        my( $files, $dirs ) = @_[0,1];
        $files = quant($files, "fichier");
        $dirs = quant($dirs, "rEfertoire");
        return "J'ai trouvE9 $files dans $dirs.";
    },
    ... and so on with other phrase => sub mappings ...
);
```

but I immediately went looking for some more concise way to basically denote the same phrase-function -- a way that would also serve to concisely denote most phrase-functions in the lexicon for most languages. After much time and even some actual thought, I decided on this system:

* Where a value in a %Lexicon hash is a contentful string instead of an anonymous sub (or, conceivably, a coderef), it would be interpreted as a sort of shorthand expression of what the sub does. When accessed for the first time in a session, it is parsed, turned into Perl code, and then eval'd into an anonymous sub; then that sub replaces the original string in that lexicon. (That way, the work of parsing and evaling the shorthand form for a given phrase is done no more than once per session.)

* Calls to C<maketext> (as Maketext's main function is called) happen thru a "language session handle", notionally very much like an IO handle, in that you open one at the start of the session, and use it for "sending signals" to an object in order to have it return the text
you want.

So, this:

```
$lang->maketext("You have [quant._1.piece] of new mail.",
               scalar(@messages));
```

basically means this: look in the lexicon for $lang (which may inherit from any number of other lexicons), and find the function that we happen to associate with the string "You have [quant._1.piece] of new mail" (which is, and should be, a functioning "shorthand" for this function in the native locale -- English in this case). If you find such a function, call it with $lang as its first parameter (as if it were a method), and then a copy of scalar(@messages) as its second, and then return that value. If that function was found, but was in string shorthand instead of being a fully specified function, parse it and make it into a function before calling it the first time.

* The shorthand uses code in brackets to indicate method calls that should be performed. A full explanation is not in order here, but a few examples will suffice:

"You have [quant._1.piece] of new mail."

The above code is shorthand for, and will be interpreted as, this:

```
sub {
    my $handle = $_[0];
    my(@params) = @_;
    return join '',
           "You have ",
           $handle->quant(@params[1], 'piece'),
           "of new mail.");
}
```

where "quant" is the name of a method you're using to quantify the noun "piece" with the number @params[0].

A string with no brackety calls, like this:

"Your search expression was malformed."

is somewhat of a degenerate case, and just gets turned into:

```
sub { return "Your search expression was malformed." }  
```

However, not everything you can write in Perl code can be written in
the above shorthand system -- not by a long shot. For example, consider
the Italian translator from the beginning of this article, who wanted
the Italian for "I didn't find any files" as a special case, instead
of "I found 0 files". That couldn't be specified (at least not easily
or simply) in our shorthand system, and it would have to be written
out in full, like this:

sub {  # pretend the English strings are in Italian
my($handle, $files, $dirs) = @_[0,1,2];
return "I didn't find any files" unless $files;
return join ",",
"I found ",
$handle->quant($files, 'file'),
" in ",
$handle->quant($dirs, 'directory'),
".";
}

Next to a lexicon full of shorthand code, that sort of sticks out like a
sore thumb -- but this is a special case, after all; and at least
it's possible, if not as concise as usual.

As to how you'd implement the Russian example from the beginning of
the article, well, There's More Than One Way To Do It, but it could be
something like this (using English words for Russian, just so you know
what's going on):

"I [quant,_1,directory,accusative] scanned."

This shifts the burden of complexity off to the quant method. That
method's parameters are: the numeric value it's going to use to
quantify something; the Russian word it's going to quantify; and the
parameter "accusative", which you're using to mean that this
sentence's syntax wants a noun in the accusative case there, although
that quantification method may have to overrule, for grammatical
reasons you may recall from the beginning of this article.

Now, the Russian quant method here is responsible not only for
implementing the strange logic necessary for figuring out how Russian
number-phrases impose case and number on their noun-phrases, but also
for inflecting the Russian word for "directory". How that inflection
is to be carried out is no small issue, and among the solutions I've
seen, some (like variations on a simple lookup in a hash where all
possible forms are provided for all necessary words) are
straightforward but can become cumbersome when you need to inflect
more than a few dozen words; and other solutions (like using
algorithms to model the inflections, storing only root forms and
irregularities) can involve more overhead than is justifiable for
all but the largest lexicons.

Mercifully, this design decision becomes crucial only in the hairiest of inflected languages, of which Russian is by no means the worst case scenario, but is worse than most. Most languages have simpler inflection systems; for example, in English or Swahili, there are generally no more than two possible inflected forms for a given noun ("error/errors"; "kosa/makosa"), and the rules for producing these forms are fairly simple -- or at least, simple rules can be formulated that work for most words, and you can then treat the exceptions as just "irregular", at least relative to your ad hoc rules. A simpler inflection system (simpler rules, fewer forms) means that design decisions are less crucial to maintaining sanity, whereas the same decisions could incur overhead-versus-scalability problems in languages like Russian. It may also be likely that code (possibly in Perl, as with Lingua::EN::Inflect, for English nouns) has already been written for the language in question, whether simple or complex.

Moreover, a third possibility may even be simpler than anything discussed above: "Just require that all possible (or at least applicable) forms be provided in the call to the given language's quant method, as in:

"I found [quant,_1,file,files]."

That way, quant just has to chose which form it needs, without having to look up or generate anything. While possibly not optimal for Russian, this should work well for most other languages, where quantification is not as complicated an operation.

=head2 The Devil in the Details

There's plenty more to Maketext than described above -- for example, there's the details of how language tags ("en-US", "i-pwn", "fi", etc.) or locale IDs ("en_US") interact with actual module naming ("BogoQuery/Locale/en_us.pm"), and what magic can ensue; there's the details of how to record (and possibly negotiate) what character encoding Maketext will return text in (UTF8? Latin-1? KOI8?). There's the interesting fact that Maketext is for localization, but nowhere actually has a "$<use locale;" anywhere in it. For the curious, there's the somewhat frightening details of how I actually implement something like data inheritance so that searches across modules' %Lexicon hashes can parallel how Perl implements method inheritance.

And, most importantly, there's all the practical details of how to actually go about deriving from Maketext so you can use it for your
interfaces, and the various tools and conventions for starting out and maintaining individual language modules.

That is all covered in the documentation for Locale::Maketext and the modules that come with it, available in CPAN. After having read this article, which covers the why's of Maketext, the documentation, which covers the how's of it, should be quite straightforward.

=head2 The Proof in the Pudding: Localizing Web Sites

Maketext and gettext have a notable difference: gettext is in C, accessible thru C library calls, whereas Maketext is in Perl, and really can't work without a Perl interpreter (although I suppose something like it could be written for C). Accidents of history (and not necessarily lucky ones) have made C++ the most common language for the implementation of applications like word processors, Web browsers, and even many in-house applications like custom query systems. Current conditions make it somewhat unlikely that the next one of any of these kinds of applications will be written in Perl, albeit clearly more for reasons of custom and inertia than out of consideration of what is the right tool for the job.

However, other accidents of history have made Perl a well-accepted language for design of server-side programs (generally in CGI form) for Web site interfaces. Localization of static pages in Web sites is trivial, feasible either with simple language-negotiation features in servers like Apache, or with some kind of server-side inclusions of language-appropriate text into layout templates. However, I think that the localization of Perl-based search systems (or other kinds of dynamic content) in Web sites, be they public or access-restricted, is where Maketext will see the greatest use.

I presume that it would be only the exceptional Web site that gets localized for English I<and> Chinese I<and> Italian I<and> Arabic I<and> Russian, to recall the languages from the beginning of this article -- to say nothing of German, Spanish, French, Japanese, Finnish, and Hindi, to name a few languages that benefit from large numbers of programmers or Web viewers or both.

However, the ever-increasing internationalization of the Web (whether measured in terms of amount of content, of numbers of content writers or programmers, or of size of content audiences) makes it increasingly likely that the interface to the average Web-based dynamic content service will be localized for two or maybe three languages. It is my hope that Maketext will make that task as simple as possible, and will remove previous barriers to localization for languages dissimilar to English.
Sean M. Burke (sburke@cpan.org) has a Master's in linguistics from Northwestern University; he specializes in language technology. Jordan Lachler (lachler@unm.edu) is a PhD student in the Department of Linguistics at the University of New Mexico; he specializes in morphology and pedagogy of North American native languages.

=head2 References

[Now see RFC 3066.]


Drepper, Ulrich, Peter Miller, and François Pinard. 1995-2001. GNU C<gettext>. Available in C<ftp://prep.ai.mit.edu/pub/gnu/>, with extensive docs in the distribution tarball. [Since I wrote this article in 1998, I now see that the gettext docs are now trying more to come to terms with plurality. Whether useful conclusions have come from it is another question altogether. -- SMB, May 2001]


=cut

#End

Found in path(s):
* /opt/cola/permits/1139282581_1614508079.72/0/perl-Locale-Maketext-1.28-396.el8-1.src.rpm-cosi-expand-archive-0YfnUF3M/Locale-Maketext-1.28.tar.gz-cosi-expand-archive-jL5r7xxx/Locale-Maketext-1.28/lib/Locale/Maketext/TPJ13.pod
No license file was found, but licenses were detected in source scan.

README for Locale::Maketext

Time-stamp: "2004-03-30 16:02:27 AST"

Locale::Maketext

Locale::Maketext is a base class providing a framework for localization and inheritance-based lexicons, as described in my
article in The Perl Journal #13 (a corrected version of which appears in this dist).

PREREQUISITES

This suite requires Perl 5. It also requires a recent version of I18N::LangTags. MSWin users should also get Win32::Locale. File::Findgrep is also useful example code, as is the rather larger Apache::MP3 source (even if you don't run Apache).

INSTALLATION

You install Locale::Maketext, as you would install any Perl module distribution, by running these commands:

perl Makefile.PL
make
make test
make install

If you want to install a private copy of Maketext in your home directory, then you should try to produce the initial Makefile with something like this command:

perl Makefile.PL LIB=~/perl

See perldoc perlmodinstall for more information.

DOCUMENTATION

See the pod in Locale::Maketext and Locale::Maketext::TPJ13, and see also File::Findgrep.

SUPPORT

Questions, bug reports, useful code bits, and suggestions for Worms should be sent to me at sburke@cpan.org

AVAILABILITY

The latest version of Locale::Maketext is available from the Comprehensive Perl Archive Network (CPAN). Visit <http://www.perl.com/CPAN/> to find a CPAN site near you.
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AUTHOR

Sean M. Burke <sburke@cpan.org>

Found in path(s):
* /opt/cola/permits/1139282581_1614508079.72/0/perl-Locale-Maketext-1.28-396.el8-1.src.rpm-cosi-expand-archive-0YfnUF3M/Locale-Maketext-1.28.tar.gz-cosi-expand-archive-jL5r7xxx/Locale-Maketext-1.28/README
No license file was found, but licenses were detected in source scan.

---
abstract: 'framework for localization'
author:
  - unknown
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: Locale-Maketext
no_index:
directory:
  - t
  - inc
requires:
  I18N::LangTags: '0.31'
  I18N::LangTags::Detect: '0'
  Test::More: '0'
resources:
  MailingList: http://lists.perl.org/list/perl5-porters.html
  bugtracker: http://rt.perl.org/perlbug/
  license: http://dev.perl.org/licenses/
  repository: http://perl5.git.perl.org/perl.git/tree/HEAD/dist/Locale-Maketext
  version: '1.28'
1.148 nanopb 0.3.9

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 */

/**
 * A {@link WebApplicationContext} that can be used to bootstrap itself from a contained
 * {@link ServletWebServerFactory} bean.
 */

<p>
This context will create, initialize and run an {@link WebServer} by searching for a
single {@link ServletWebServerFactory} bean within the {@link ApplicationContext}
* itself. The {@link ServletWebServerFactory} is free to use standard Spring concepts
* (such as dependency injection, lifecycle callbacks and property placeholder variables).
* <p>
* In addition, any {@link Servlet} or {@link Filter} beans defined in the context will be
* automatically registered with the web server. In the case of a single Servlet bean, the
* '/' mapping will be used. If multiple Servlet beans are found then the lowercase bean
* name will be used as a mapping prefix. Any Servlet named 'dispatcherServlet' will
* always be mapped to '/'. Filter beans will be mapped to all URLs ('/*').
* <p>
* For more advanced configuration, the context can instead define beans that implement
* the {@link ServletContextInitializer} interface (most often
* {@link ServletRegistrationBean}s and/or {@link FilterRegistrationBean}s). To prevent
* double registration, the use of {@link ServletContextInitializer} beans will disable
* automatic Servlet and Filter bean registration.
* <p>
* Although this context can be used directly, most developers should consider using the
* [@link AnnotationConfigServletWebServerApplicationContext] or
* [@link XmlServletWebServerApplicationContext] variants.
*
1.155 curl 7.64.0 4+deb10u1

1.155.1 Available under license :

License Mixing

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

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

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

One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html) licensed code is not allowed to be linked with code licensed under the [Original BSD license](https://spdx.org/licenses/BSD-4-Clause.html) (with the announcement clause). You may still build your own copies that use them all,
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## libcurl

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

## OpenSSL

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL's licensing is a problem for you, consider using another TLS library.

## GnuTLS

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## c-ares

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

## zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

## MIT Kerberos

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## Heimdal

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## libidn

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## OpenLDAP

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

## libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

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1.156 pyxattr 0.5.1

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1.157 go-md2man v2.0.0-20190314233015-f79a8a8ca69d
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THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel
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1.164 rhsm 1.15.4

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1.171 kubernetes-api v0.0.0-20201204214525-af46c47ce925

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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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tomb - support for clean goroutine termination in Go.

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1.182 x-sync v0.0.0-20200625203802-
6e8e738ad208

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Manifest-Version: 1.0
Bnd-LastModified: 1611582640123
Build-Jdk: 1.8.0_275
Built-By: bbrazil
Bundle-Description: Collectors of data from Java Hotspot.
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Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Java Simpleclient Hotspot
Bundle-SymbolicName: io.prometheus.simpleclient_hotspot
Bundle-Version: 0.10.0
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.client.hotspot;uses:="io.prometheus.client"
  ;version=",0.10.0"
Import-Package: com.sun.management,io.prometheus.client;version=",[0.10,1"
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1.185 vault v0.1.13

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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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```json
{
  "data": {
    "expiration_time": "2017-11-14T16:34:36.546753-05:00",
    "features": [
      "UI",
      "HSM",
      "Performance Replication",
      "DR Replication"
    ],
    "license_id": "temporary",
    "start_time": "2017-11-14T16:04:36.546753-05:00"
  },
  "warnings": [
    "time left on license is 29m33s"
  ]
}
```

## Install License

This endpoint is used to install a license into Vault.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>PUT</code></td>
<td><code>/sys/license</code></td>
</tr>
</tbody>
</table>

### Parameters

- `text` *(string: <required>)*  - The text of the license.

*DR Secondary Specific Parameters*

- `dr_operation_token` *(string: <required>)*  - DR operation token used to authorize this request.

### Sample Payload

```json
{
  "text": "01ABCDEFG..."
}
```

### Sample Request

```
$ curl \
```

---

[Open Source Used In APIC-SE-BATMAN 2.1.1d](#) [2954](#)
```
--header "X-Vault-Token: ..." \
--request PUT \
--data @payload.json \
http://127.0.0.1:8200/v1/sys/license
```
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package github

import (
    "context"
    "fmt"
)

// LicensesService handles communication with the license related methods of the GitHub API.
// GitHub API docs: https://developer.github.com/v3/licenses/
type LicensesService service

type RepositoryLicense struct {
    Name *string `json:"name,omitempty"`
Path *string `json:"path,omitempty"`

SHA *string `json:"sha,omitempty"`
Size *int `json:"size,omitempty"`
URL *string `json:"url,omitempty"`
HTMLURL *string `json:"html_url,omitempty"`
GitURL *string `json:"git_url,omitempty"`
DownloadURL *string `json:"download_url,omitempty"`
Type *string `json:"type,omitempty"`
Content *string `json:"content,omitempty"`
Encoding *string `json:"encoding,omitempty"`
License *License `json:"license,omitempty"`

func (l RepositoryLicense) String() string {
    return Stringify(l)
}

// License represents an open source license.
type License struct {
    Key *string `json:"key,omitempty"`
    Name *string `json:"name,omitempty"`
    URL *string `json:"url,omitempty"`
    SPDXID *string `json:"spdx_id,omitempty"`
    HTMLURL *string `json:"html_url,omitempty"`
    Featured *bool `json:"featured,omitempty"`
    Description *string `json:"description,omitempty"`
    Implementation *string `json:"implementation,omitempty"`
    Permissions *[[]]string `json:"permissions,omitempty"`
    Conditions *[[]]string `json:"conditions,omitempty"`
    Limitations *[[]]string `json:"limitations,omitempty"`
    Body *string `json:"body,omitempty"`
}

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List(ctx context.Context) ([][]*License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
    resp, err := s.client.Do(req)
    if err != nil {
        return nil, nil, err
    }
    licenses := make([][]*License, 0)
    for _, l := range resp.LicenseData {
        licenses = append(licenses, []*License{l})
    }
    return licenses, resp, nil
}
var licenses []*License
resp, err := s.client.Do(ctx, req, &licenses)
if err != nil {
    return nil, resp, err
}

return licenses, resp, nil

// Get extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)

    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }

    license := new(License)
    resp, err := s.client.Do(ctx, req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, nil
}

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type Features uint

const FeatureNone Features = 0

func (f Features) HasFeature(flag Features) bool {
    return false
}

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

1.189 cracklib 2.9.0 11.el7

1.189.1 Available under license:

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Version 2.1, February 1999

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

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<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
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Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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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.

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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
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.=20

-- Nathan
=20
------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...[mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
> >=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> =-mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20
------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
> =20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> > directly
> > and see if he wants to relicense his code as LGPL... but at this
> point,
> > it was enough to just get it consistent and documented as to what
> > it was
> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.
> >=20
> > the original license (before moving to sourceforge -- aka, 2.7) was
> > not
> > GPL-2 ... it was a modified artistic license ... i didn't notice the
> > license
> > change until it was mentioned in the latest notes.
> >=20
> > unlike the old license, GPL-2 prevents people from using cracklib
> > unless their
> > applications are also GPL-2 which imo is just wrong. it isn't the
> > place of a
> > library to dictate to application writes what license they should
> > be using.
> > thus LGPL-2.1 enters to fill this void.
> > -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...  

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).
I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
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My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
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looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now?
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From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
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Nathan Neulinger is the only one who can actually make said change ...

-mike
Any chance you could write me a self-contained email stating clearly that the license is being changed to GPL, so I could include that email in the repository and clean up the repository/tarballs? I have all the original discussion, but something succinct and self contained would be ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

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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.
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists =20

-- 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...
> Subject: [Cracklib-devel] cracklib license
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Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

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thus LGPL-2.1 enters to fill this void.

2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
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> Sent: Monday, October 01, 2007 8:33 PM
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> Cc: cracklib-devel@li...; Alec Muffett
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-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone’s
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.
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--------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
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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])
   by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
   by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
   by rutherford.zen.co.uk with esmtpl (Exim 4.50)
   id 11cOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afplf2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.190 libproxy 0.4.11 8.el7
1.190.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

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

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

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

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

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

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

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

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

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

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

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

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

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.
Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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

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

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

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

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

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

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

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

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

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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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

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

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

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

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

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

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

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

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

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

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

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
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1.191 entrypoints 0.3
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 */
/**
 * Specifies that AutoValue should copy any annotations from the annotated element to the
 * generated class. This annotation supports classes and methods.
 *
 * <p>The following annotations are excluded:
 *
 * <ol>
 *   <li>AutoValue and its nested annotations;
 *   <li>any annotation appearing in the { @link AutoValue.CopyAnnotations#exclude} field;
 *   <li>any class annotation which is itself annotated with the { @link
 *       java.lang.annotation.Inherited} meta-annotation.
 * </ol>
 *
 * <p>For historical reasons, annotations are always copied from an {@code @AutoValue} property
 * method to its implementation, unless {@code @CopyAnnotations} is present and explicitly
 * { @linkplain CopyAnnotations#exclude excludes} that annotation. But annotations are not copied
 * from the {@code @AutoValue} class itself to its implementation unless {@code @CopyAnnotations}
 * is present.
 *
 * <p>If you want to copy annotations from your {@literal @}AutoValue-annotated class's methods to
 * the generated fields in the AutoValue_... implementation, annotate your method
 * with {@literal @}AutoValue.CopyAnnotations. For example, if Example.java is:<pre>
 *
 * {@code @}Immutable
 * {@code @}AutoValue
 * abstract class Example {
 *   {@code @}CopyAnnotations
 *   {@code @}SuppressWarnings("Immutable") // justification ...
 *   abstract Object getObject();
 *   // other details ...
 * }
 * </pre>
Then AutoValue will generate the following AutoValue_Example.java:

```java
final class AutoValue_Example extends Example {
  @SuppressWarnings("Immutable")
  private final Object object;

  @SuppressWarnings("Immutable")
  @Override
  Object getObject() {
    return object;
  }

  // other details ...
  }
</pre>

When the `<i>type</i>` of an `{@code @AutoValue} property method has annotations, those are part of the type, so they are always copied to the implementation of the method. `{@code @CopyAnnotations} has no effect here. For example, suppose `{@code @Confidential} is a `{@link java.lang.annotation.ElementType#TYPE_USE TYPE_USE} annotation:

```java
@AutoValue
abstract class Person {
  static Person create({@code @Confidential} String name, int id) {
    return new AutoValue_Person(name, id);
  }

  abstract {@code @Confidential} String name();
  abstract int id();
}
```

Then the implementation of the `{@code name} method will also have return type `{@code @Confidential String}. 

@author Carmi Grushko

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* /opt/ws_local/PERMITS_SQL/1057946888_1592388255.84/0/auto-value-annotations-1-6-3rc1-sources-jar/com/google/auto/value/processor/TemplateVars.java
* /opt/ws_local/PERMITS_SQL/1057946888_1592388255.84/0/auto-value-annotations-1-6-3rc1-sources-jar/com/google/auto/value/processor/AutoValueBuilderProcessor.java
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1.197 kubernetes-kubectl v0.0.0-20201204214525-af46c47ce925

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- Copy files to and from Containers in a cluster

# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.
Copy a local file to a remote Pod in a cluster.

- Local file format is `path`
- Remote file format is `<pod-name>:path`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```
Set the Pod namespace by prefixing the Pod name with `\<namespace>\`:

- `\<pod-namespace>\<pod-name>:\<path>\`

```
```
```
```

```bash
```
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

```
```

1.198 acl 2.2.53-6

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1.219 sergi-go-diff v1.0.0

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1.220 pcre 8.42

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THE BASIC LIBRARY FUNCTIONS

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1.221 swaggo-files v0.0.0-20190704085106-630677cd5c14

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1.222 libtasn 3.8 2.el7

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1.223 prometheus-procfs v0.0.10

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

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1.225 bash 5.0 6ubuntu1.1

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1.229 protobuf v1.22.0

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1.230 apk-tools 2.10.5-r2

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1.231 python-dateutil 2.6.1-1.ph1

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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collect/SortedMultisets.java

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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/collection/RowSortedTable.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/collection/ForwardingSetMultimap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/collection/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/collection/ForwardingListMultimap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/collection/MinMaxPriorityQueue.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/collection/AbstractSequentialIterator.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/collection/ForwardingImmutableCollection.java

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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/graph/DirectedMultiNetworkConnections.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/graph/MutableValueGraph.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/graph/ForwardingGraph.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/graph/AbstractGraph.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/graph/MultiEdgesConnecting.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/graph/ValueGraphBuilder.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/graph/HashMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/graph/AbstractValueGraph.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/graph/NetworkConnections.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/graph/UndirectedGraphConnections.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/graph/ConfigurableMutableValueGraph.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/graph/ArrayListMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/graph/ForwardingNetwork.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/graph/DirectedNetworkConnections.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/graph/ImmutableValueGraph.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/graph/RangeGwtSerializationDependencies.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/graph/ImmutableMultisetGwtSerializationDependencies.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/graph/MapRetrievalCache.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/graph/AbstractGraphBuilder.java

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  jar/com/google/common/graph/package-info.java
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  jar/com/google/common/net/PercentEscaper.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
  jar/com/google/common/util/concurrent/ListenableFutureTask.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
  jar/com/google/common/collection/FluentIterable.java
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jar/com/google/common/util/concurrent/ExecutionSequencer.java`  
* `/opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/hash/ImmutableSupplier.java`  
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jar/com/google/common/eventbus/Subscriber.java`  
* `/opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/eventbus/SubscriberRegistry.java`  
* `/opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/math/Quantiles.java`  
* `/opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/base/MoreObjects.java`  
* `/opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java`  
* `/opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/eventbus/Dispatcher.java`  
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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/base/VerifyException.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/Runnables.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collect/AbstractTable.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/reflect/TypeVisitor.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/io/CharSequenceReader.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/base/Utf8.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/base/Verify.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java

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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collection/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collection/SortedIterables.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collection/ForwardingSortedMultiset.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collection/ImmutableSortedMultiset.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collection/AbstractRangeSet.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collection/Count.java
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  * /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
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  * /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/escape/CharEscaper.java
  * /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/io/AppendableWriter.java
  * /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/escape/CharEscaperBuilder.java
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  * /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/ImmediateFuture.java
  * /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/FakeTimeLimiter.java
  * /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/AbstractTransformFuture.java
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  * /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/base/CaseFormat.java
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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/util/concurrent/AsyncCallable.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/util/concurrent/InterruptibleTask.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/util/concurrent/Platform.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/util/concurrent/AggregateFutureState.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/collect/ConsumingQueueIterator.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/hash/FarmHashFingerprint64.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/hash/LittleEndianByteArray.java

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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/cache/Weigher.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/primitives/UnsignedInteger.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/math/LongMath.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/base/Present.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/UnorderedExecutionException.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/base/Optional.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/hash/AbstractCompositeHashFunction.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/hash/AbstractNonStreamingHashFunction.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/cache/RemovalCause.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/AsyncFunction.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/Uninterruptibles.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/math/DoubleMath.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/ForwardingExecutorService.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/base/Enums.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/cache/CacheBuilderSpec.java
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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collect/CollectPreconditions.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collect/HashBasedTable.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collect/ImmutableMapValues.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collect/Table.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/WrappingExecutorService.java
jar/com/google/common/collection/RegularImmutableBiMap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/Collections2.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/EmptyImmutableListMultimap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/ImmutableSortedSet.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/ImmutableBiMap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/UnmodifiableIterator.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/TreeBasedTable.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/ImmutableMapKeySet.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/StandardRowSortedTable.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/ImmutableMap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/ImmutableMapEntrySet.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/ImmutableCollection.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/Serialization.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/Range.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/ImmutableListMultimap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/Platform.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/ImmutableMultimap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/RegularImmutableMap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/ImmutableEntry.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/PeekingIterator.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/StandardTable.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/Tables.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
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  jar/com/google/common/math/StatsAccumulator.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
  jar/com/google/common/io/BaseEncoding.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
  jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
  jar/com/google/common/reflect/package-info.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
  jar/com/google/common/base/StandardSystemProperty.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
  jar/com/google/common/io/CharSink.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
  jar/com/google/common/hash/ChecksumHashFunction.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
  jar/com/google/common/escape/package-info.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
  jar/com/google/common/math/PairedStats.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
  jar/com/google/common/collection/CartesianList.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
  jar/com/google/common/collection/LongAddables.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
  jar/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
  jar/com/google/common/hash/LongAddable.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
  jar/com/google/common/hash/SipHashFunction.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
  jar/com/google/common/collection/ImmutableRangeMap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
  jar/com/google/common/collection/ImmutableRangeSet.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/math/PairedStatsAccumulator.java

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 */

/*
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 *
 * As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
 * java.util.HashMap class.
 */

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 */

/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/graph/AbstractBaseGraph.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/graph/BaseGraph.java
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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/coll/ForwardingNavigableSet.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/coll/RangeMap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/coll/CompactHashMap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/coll/FilteredMultimap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/coll/FilteredKeySetMultimap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/coll/ImmutableEnumMap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/coll/CompactHashSet.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/coll/CompactLinkedHashSet.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/coll/ForwardingImmutableMap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/coll/AbstractSortedKeySortedSetMultimap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/coll/FilteredSetMultimap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/coll/SortedMultisetBridge.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/coll/ForwardingImmutableSet.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/coll/UnmodifiableSortedMultiset.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/coll/DescendingMultiset.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/coll/ForwardingDeque.java
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*/
/**
* Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable} key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy version.

* @throws UnsupportedOperationException always

* @deprecated <b>Pass a key of type {@code Comparable} to use {@link ImmutableSortedMap#of(Comparable, Object)}</b>.

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*/
/**
* Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain
* {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available
* under GWT but with a slightly different signature.
* 
* <p>We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler wouldn't recognize
* it as a {@code GwtIncompatible} annotation. And for {@code Futures.catching}, we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/

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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/SetMultimap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/ArrayListMultimap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/NaturalOrdering.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/EnumHashBiMap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/LinkedHashMultimap.java
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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/TreeMultimap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/Interner.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/MapDifference.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/ForwardingMultimap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/MutableClassToInstanceMap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/Lists.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/RegularImmutableSet.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/NullsLastOrdering.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/LinkedHashMultiset.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/ForwardingCollection.java
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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/hash/Striped64.java
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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/cache/HashMultimap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collect/AbstractMapBasedMultiset.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collect/ForwardingMapEntry.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collect/AbstractMapBasedMultimap.java

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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/hash/AbstractHashFunction.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/util/concurrent/ForwardingLock.java
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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/primitives/ImmutableDoubleArray.java
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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/graph/MutableNetwork.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/graph/ImmutableNetwork.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/graph/SuccessorsFunction.java
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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/graph/Graph.java
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  jar/com/google/common/base/PatternCompiler.java
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  jar/com/google/common/base/CommonPattern.java
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  jar/com/google/common/collect/ForwardingTable.java
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  jar/com/google/common/collect/RegularImmutableList.java
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*/
/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned array.
 * 
 * <p>This method assumes that the collection size doesn't change while the method is running.
 * 
 * <p>TODO(kevinb): support concurrently modified collections?
 * 
 * @param c the collection for which to return an array of elements
 */

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*/
*/opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/ObjectArrays.java

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

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

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

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

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

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

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

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

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

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

That's all there is to it!

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The End
1.236 hdfs v2.1.1

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1.237 libteam 1.17-7.el7_2

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1.240 jcmturner-gokrb v8.2.0

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cmd/krb5/slave/kpropd_rpc.c
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  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
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  lib/gssapi/mechglue/g_dup_name.c
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  lib/gssapi/mechglue/g_imp_name.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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1.241 jts 1.15.0

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/*
* sha.h: header file for SHA-1/224/256/384/512 routines
*
* Ref: NIST FIPS PUB 180-4 Secure Hash Standard
*
* Copyright (C) 2003-2018 Mark Shelor, All Rights Reserved
*
* Version: 6.02
* Fri Apr 20 16:25:30 MST 2018
*
*/

Found in path(s):
* /opt/cola/permits/1137994381_1614192640.86/0/perl-Digest-SHA-6.02-1.el8-1.src.rpm-cosi-expand-archive-tWM6GeIu/Digest-SHA-6.02.tar.gz-cosi-expand-archive-L4u9iy7z/Digest-SHA-6.02/src/sha.h
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* sha64bit.c: routines to compute SHA-384/512 digests
*
* Ref: NIST FIPS PUB 180-4 Secure Hash Standard
*
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#!perl

## shasum: filter for computing SHA digests (ref. sha1sum/md5sum)
##
use strict;
use warnings;
use Fcntl;
use Getopt::Long;
use Digest::SHA qw($errmsg);

my $POD = <<'END_OF_POD';
=head1 NAME
shasum - Print or Check SHA Checksums
=head1 SYNOPSIS
Usage: shasum [OPTION]... [FILE]...
Print or check SHA checksums.
With no FILE, or when FILE is -, read standard input.

-a, --algorithm  1 (default), 224, 256, 384, 512, 512224, 512256
-b, --binary      read in binary mode
-c, --check       read SHA sums from the FILEs and check them
                 --tag create a BSD-style checksum
-t, --text        read in text mode (default)
-U, --UNIVERSAL   read in Universal Newlines mode
                 produces same digest on Windows/Unix/Mac
-0, --01          read in BITS mode
                 ASCII '0' interpreted as 0-bit,
                 ASCII '1' interpreted as 1-bit,
                 all other characters ignored

The following five options are useful only when verifying checksums:
                 --ignore-missing don't fail or report status for missing files
-q, --quiet      don't print OK for each successfully verified file
-s, --status     don't output anything, status code shows success
                 --strict exit non-zero for improperly formatted checksum lines
-w, --warn       warn about improperly formatted checksum lines

END_OF_POD
-h, --help    display this help and exit
-v, --version output version information and exit

When verifying SHA-512/224 or SHA-512/256 checksums, indicate the
algorithm explicitly using the -a option, e.g.

    shasum -a 51224 -c checksumfile

The sums are computed as described in FIPS PUB 180-4. When checking,
the input should be a former output of this program. The default
mode is to print a line with checksum, a character indicating type
( `*' for binary, ` ' for text, `U' for UNIVERSAL, `^' for BITS),
and name for each FILE. The line starts with a `\' character if the
FILE name contains either newlines or backslashes, which are then
replaced by the two-character sequences `\n' and `\W' respectively.

Report shasum bugs to mshelor@cpan.org

=head1 DESCRIPTION

Running I<shasum> is often the quickest way to compute SHA message
digests. The user simply feeds data to the script through files or
standard input, and then collects the results from standard output.

The following command shows how to compute digests for typical inputs
such as the NIST test vector "abc":

    perl -e "print qq(abc)" | shasum

Or, if you want to use SHA-256 instead of the default SHA-1, simply say:

    perl -e "print qq(abc)" | shasum -a 256

Since I<shasum> mimics the behavior of the combined GNU I<sha1sum>,
I<sha224sum>, I<sha256sum>, I<sha384sum>, and I<sha512sum> programs,
you can install this script as a convenient drop-in replacement.

Unlike the GNU programs, I<shasum> encompasses the full SHA standard by
allowing partial-byte inputs. This is accomplished through the BITS
option (I<-0>). The following example computes the SHA-224 digest of
the 7-bit message I<0001100>:

    perl -e "print qq(0001100)" | shasum -0 -a 224

=head1 AUTHOR

Copyright (C) 2003-2018 Mark Shelor <mshelor@cpan.org>.
SEE ALSO

I<shasum> is implemented using the Perl module L<Digest::SHA>>.

END_OF_POD

my $VERSION = "6.02";

sub usage {
    my($err, $msg) = @_;

    $msg = "" unless defined $msg;
    if ($err) {
        warn($msg . ", Type shasum -h for help\n");
        exit($err);
    }
    my($USAGE) = $POD =~ /SYNOPSIS(.+?)^=/sm;
    $USAGE =~ s/\s*/\s+/g;
    $USAGE =~ s/^ //g;
    print $USAGE, "n";
    exit($err);
}

## Sync stdout and stderr by forcing a flush after every write

select((select(STDOUT), $| = 1)[0]);
select((select(STDERR), $| = 1)[0]);

## Collect options from command line

my ($alg, $binary, $check, $text, $status, $quiet, $warn, $help);
my ($version, $BITS, $UNIVERSAL, $tag, $strict, $ignore_missing);
eval { Getopt::Long::Configure ("bundling") };
GetOptions(
    'b|binary' => \$binary, 'c|check' => \$check,
    't|text' => \$text, 'a|algorithm=i' => \$alg,
    's|status' => \$status, 'w|warn' => \$warn,
    'q|quiet' => \$quiet,
    'h|help' => \$help, 'v|version' => \$version,
    '0|01' => \$BITS,
    'U|UNIVERSAL' => \$UNIVERSAL,
'tag' => \$tag,
'strict' => \$strict,
'ignore-missing' => \$ignore_missing,
) or usage(1, "")

## Deal with help requests and incorrect uses

usage(0)
if $help;
usage(1, "shasum: Ambiguous file mode\n")
if scalar(grep {defined $_} ($binary, $text, $BITS, $UNIVERSAL)) > 1;
usage(1, "shasum: --warn option used only when verifying checksums\n")
if $warn && !$check;
usage(1, "shasum: --status option used only when verifying checksums\n")
if $status && !$check;
usage(1, "shasum: --quiet option used only when verifying checksums\n")
if $quiet && !$check;
usage(1, "shasum: --ignore-missing option used only when verifying checksums\n")
if $ignore_missing && !$check;
usage(1, "shasum: --strict option used only when verifying checksums\n")
if $strict && !$check;
usage(1, "shasum: --tag does not support --text mode\n")
if $tag && $text;
usage(1, "shasum: --tag does not support Universal Newlines mode\n")
if $tag && $UNIVERSAL;
usage(1, "shasum: --tag does not support BITS mode\n")
if $tag && $BITS;

## Default to SHA-1 unless overridden by command line option

my %isAlg = map { $_ => 1 } (1, 224, 256, 384, 512, 512224, 512256);
$alg = 1 unless defined $alg;
usage(1, "shasum: Unrecognized algorithm\n") unless $isAlg{$alg};

my %Tag = map { $_ => "SHA$_" } (1, 224, 256, 384, 512);
$Tag{512224} = "SHA512/224";
$Tag{512256} = "SHA512/256";

## Display version information if requested

if ($version) {
print "$VERSION\n";
exit(0);
}
## Try to figure out if the OS is DOS-like. If it is,
## default to binary mode when reading files, unless
## explicitly overridden by command line "--text" or
## "--UNIVERSAL" options.
my $isDOSish = ($^O =~ /^(MSWin\d\d|os2|dos|mint|cygwin)$/);
if ($isDOSish) { $binary = 1 unless $text || $UNIVERSAL }
my $modesym = $binary ? '*' : ($UNIVERSAL ? 'U' : ($BITS ? '^' : ' '));

## Read from STDIN (-) if no files listed on command line
@ARGV = ("-") unless @ARGV;

## sumfile($file): computes SHA digest of $file
sub sumfile {
my $file = shift;
my $mode = $binary ? 'b' : ($UNIVERSAL ? 'U' : ($BITS ? '0' : ''));
my $digest = eval { Digest::SHA->new($alg)->addfile($file, $mode) };
if ($@) { warn "shasum: $file: $errmsg\n"; return }
$digest->hexdigest;
}

## %len2alg: maps hex digest length to SHA algorithm
my %len2alg = (40 => 1, 56 => 224, 64 => 256, 96 => 384, 128 => 512);
$len2alg{56} = 512224 if $alg == 512224;
$len2alg{64} = 512256 if $alg == 512256;

## unescape: convert backslashed filename to plain filename
sub unescape {
$_ = shift;
s/\\\\/\0/g;
s/\\n/\n/g;
s/\0/\\/g;
return $_;
}

Open Source Used In APIC-SE-BATMAN 2.1.1d 3534


## verify: confirm the digest values in a checksum file

```perl
sub verify {
  my $checkfile = shift;
  my ($err, $fmt_errs, $read_errs, $match_errs) = (0, 0, 0, 0);
  my ($num_fmt_OK, $num_OK) = (0, 0);
  my ($bslash, $sum, $fname, $rsp, $digest, $isOK);

  local *FH;
  $checkfile eq '-' and open(FH, '< -')
  and $checkfile = 'standard input'
  or sysopen(FH, $checkfile, O_RDONLY)
  or die "shasum: $checkfile: $!
  while (<FH>) {
    next if /^#/;
    if (/^\s*\?SHA/) {
      $modesym = '*';
      ($bslash, $alg, $fname, $sum) =
        /^\s*(\?)(\d+-)?SHA\(\S+\)? \(\d+-\)\) = (\d-\d-F\-F+)/;
      $alg =~ tr{/}{}d if defined $alg;
    } else {
      ($bslash, $sum, $modesym, $fname) =
        /^\s*\?\d+\(\S+\)?\(\d+-\)\)\) = (\d-\d-F\-F+)/;
      $alg = defined $sum ? $len2alg{length($sum)} : undef;
    }
    if (grep { ! defined $_ } ($alg, $sum, $modesym, $fname) or
        ! $isAlg{$alg}) {
      warn("shasum: $checkfile: $.: improperly ".
      "formatted SHA checksum line
      if $warn;
      $fmt_errs++;
      $err = 1 if $strict;
      next;
    }
    $num_fmt_OK++;
    $fname = unescape($fname) if $bslash;
    next if Signore_missing && ! -e $fname;
    $rsp = "$fname: ";
    ($binary, $text, $UNIVERSAL, $BITS) =
      map { $_ eq $modesym } ('*', ' ', 'U', '^');
    $isOK = 0;
    unless ($digest = sumfile($fname)) {
      $rsp .= "FAILED open or read
      $err = 1; $read_errs++;
    } elsif (lc($sum) eq $digest) {
      $rsp .= "OK"
      $isOK = 1;
    } else {
      warn("shasum: $checkfile: $.: $sum != $digest"
      if $warn;
      $match_errs++;
      $err = 1 if $strict;
      next;
    }
    $num_OK++;
  }
  unless ($err) {
    $err = 1 if $strict;
    next;
  }
}
```

---

Open Source Used in APIC-SE-BATMAN 2.1.1d 3535
$num_OK++;  
}  
else { $rsp .= "FAILED\n"; $err = 1; $match_errs++  
}  
print $rsp unless ($status || ($quiet & & $isOK));  
}  
close(FH);
if (! $num_fmt_OK) {  
warn("shasum: $checkfile: no properly formatted " .  
"SHA checksum lines found\n");  
$err = 1;  
}  
elsif (! $status) {  
warn("shasum: WARNING: $fmt_errs line" . ($fmt_errs>1?  
's are':'is') . " improperly formatted\n") if $fmt_errs;  
warn("shasum: WARNING: $read_errs listed file" .  
($read_errs>1?'s':'') . " could not be read\n") if $read_errs;  
warn("shasum: WARNING: $match_errs computed checksum" .  
($match_errs>1?'s':'') . " did NOT match\n") if $match_errs;  
}  
if ($ignore_missing & & ! $num_OK & & $num_fmt_OK) {  
warn("shasum: $checkfile: no file was verified\n")  
unless $status;  
$err = 1;  
}  
return($err == 0);

## Verify or compute SHA checksums of requested files

my($file, $digest);
my $STATUS = 0;
for $file (@ARGV)  
if ($check) { $STATUS = 1 unless verify($file) }  
elsiF ($digest = sumfile($file)) {  
if ($file =~ /\[/  
$file =~ s/\[\]/\\/g; $file =~ s/\n/\n/g;  
print ";\n";  
}  
unless ($tag) { print "$digest $modesym$file\n" }  
else { print "$Tag{$alg} ($file) = $digest\n" }  
}  
else { $STATUS = 1  
}  
exit($STATUS);

---

Open Source Used In APIC-SE-BATMAN 2.1.1d 3536

* /opt/cola/permits/1137994381_1614192640.86/0/perl-Digest-SHA-6.02-1.el8-1.src.rpm-cosi-expand-archive-*
No license file was found, but licenses were detected in source scan.

license: perl

Found in path(s):
* /opt/cola/permits/1137994381_1614192640.86/0/perl-Digest-SHA-6.02-1.el8-1.src.rpm-cosi-expand-archive-tWM6GeIu/Digest-SHA-6.02.tar.gz-cosi-expand-archive-L4u9iy7z/Digest-SHA-6.02/META.yml

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

/*
 * sha.c: routines to compute SHA-1/224/256/384/512 digests
 *
 * Ref: NIST FIPS PUB 180-4 Secure Hash Standard
 *
 * Copyright (C) 2003-2018 Mark Shelor, All Rights Reserved
 *
 * Version: 6.02
 * Fri Apr 20 16:25:30 MST 2018
 *
 */

Found in path(s):
* /opt/cola/permits/1137994381_1614192640.86/0/perl-Digest-SHA-6.02-1.el8-1.src.rpm-cosi-expand-archive-tWM6GeIu/Digest-SHA-6.02.tar.gz-cosi-expand-archive-L4u9iy7z/Digest-SHA-6.02/src/sha.c

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

/*
 * sha64bit.h: placeholder values for 64-bit data and routines
 *
 * Ref: NIST FIPS PUB 180-4 Secure Hash Standard
 *
 * Copyright (C) 2003-2018 Mark Shelor, All Rights Reserved
 *
 * Version: 6.02
 * Fri Apr 20 16:25:30 MST 2018
 *
 * The following macros supply placeholder values that enable the
 * sha.c module to successfully compile when 64-bit integer types
 * aren't present.
 *
 * They are appropriately redefined in sha64bit.c if the compiler
 * provides a 64-bit type (i.e. when SHA_384_512 is defined).
 *
 */

Found in path(s):
* /opt/cola/permits/1137994381_1614192640.86/0/perl-Digest-SHA-6.02-1.el8-1.src.rpm-cosi-expand-archive-
Digest::SHA version 6.02

Digest::SHA is a complete implementation of the NIST Secure Hash Standard. It gives Perl programmers a convenient way to calculate SHA-1, SHA-224, SHA-256, SHA-384, SHA-512, SHA-512/224, and SHA-512/256 message digests. The module can handle all types of input, including partial-byte data.

Digest::SHA is written in C for speed. If your platform lacks a C compiler, you can install the functionally-equivalent (but much slower) Digest::SHA::PurePerl module.

The tests subdirectory (t/*.t) contains an extensive set of SHA vectors compiled from various sources.

INSTALLATION

To install this module type the following:

perl Makefile.PL [ options ]
make
make test
make install

The Makefile.PL options are:

- x : exclude support for SHA-384/512

DEPENDENCIES

None

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

Please refer to the Perl Artistic License for details:

http://search.cpan.org/perldoc?perlartistic

Found in path(s):
NAME

Digest::SHA - Perl extension for SHA-1/224/256/384/512

SYNOPSIS

In programs:

# Functional interface

use Digest::SHA qw(sha1 sha1_hex sha1_base64 ...);

$digest = sha1($data);
$digest = sha1_hex($data);
$digest = sha1_base64($data);

$digest = sha256($data);
$digest = sha384_hex($data);
$digest = sha512_base64($data);

# Object-oriented

use Digest::SHA;

$sha = Digest::SHA->new($alg);

$sha->add($data); # feed data into stream
$sha->addfile(*F);
$sha->addfile($filename);

$sha->add_bits($bits);
$sha->add_bits($data, $nbits);

$sha_copy = $sha->clone; # make copy of digest object
$state = $sha->getstate; # save current state to string
$sha->putstate($state); # restore previous $state

$digest = $sha->digest; # compute digest
$digest = $sha->hexdigest;
$digest = $sha->b64digest;

From the command line:
$ shasum files

$ shasum --help

=head1 SYNOPSIS (HMAC-SHA)

# Functional interface only

use Digest::SHA qw(hmac_sha1 hmac_sha1_hex ...);

$digest = hmac_sha1($data, $key);
$digest = hmac_sha224_hex($data, $key);
$digest = hmac_sha256_base64($data, $key);

=head1 ABSTRACT

Digest::SHA is a complete implementation of the NIST Secure Hash Standard. It gives Perl programmers a convenient way to calculate SHA-1, SHA-224, SHA-256, SHA-384, SHA-512, SHA-512/224, and SHA-512/256 message digests. The module can handle all types of input, including partial-byte data.

=head1 DESCRIPTION

Digest::SHA is written in C for speed. If your platform lacks a C compiler, you can install the functionally equivalent (but much slower) L<Digest::SHA::PurePerl> module.

The programming interface is easy to use: it's the same one found in CPAN's L<Digest> module. So, if your applications currently use L<Digest::MD5> and you'd prefer the stronger security of SHA, it's a simple matter to convert them.

The interface provides two ways to calculate digests: all-at-once, or in stages. To illustrate, the following short program computes the SHA-256 digest of "hello world" using each approach:

use Digest::SHA qw(sha256_hex);

$data = "hello world";
@frags = split('/', $data);

# all-at-once (Functional style)
$digest1 = sha256_hex($data);

# in-stages (OOP style)
$state = Digest::SHA->new(256);
for (@frags) { $state->add($_) }
$digest2 = $state->hexdigest;
print $digest1 eq $digest2 ?
"whew!\n" : "oops!\n";

To calculate the digest of an n-bit message where n is not a multiple of 8, use the add_bits() method. For example, consider the 446-bit message consisting of the bit-string "110" repeated 148 times, followed by "11". Here's how to display its SHA-1 digest:

use Digest::SHA;
$bits = "110" x 148 . "11";
$sha = Digest::SHA->new(1)->add_bits($bits);
print $sha->hexdigest, "\n";

Note that for larger bit-strings, it's more efficient to use the two-argument version add_bits($data, $nbits), where $data is in the customary packed binary format used for Perl strings.

The module also lets you save intermediate SHA states to a string. The getstate() method generates portable, human-readable text describing the current state of computation. You can subsequently restore that state with putstate() to resume where the calculation left off.

To see what a state description looks like, just run the following:

use Digest::SHA;
print Digest::SHA->new->add("Shaw" x 1962)->getstate;

As an added convenience, the Digest::SHA module offers routines to calculate keyed hashes using the HMAC-SHA-1/224/256/384/512 algorithms. These services exist in functional form only, and mimic the style and behavior of the sha(), sha_hex(), and sha_base64() functions.

# Test vector from draft-ietf-ipsec-ciph-sha-256-01.txt

use Digest::SHA qw(hmac_sha256_hex);
print hmac_sha256_hex("Hi There", chr(0x0b) x 32), "\n";

=head1 UNICODE AND SIDE EFFECTS

Perl supports Unicode strings as of version 5.6. Such strings may contain wide characters, namely, characters whose ordinal values are greater than 255. This can cause problems for digest algorithms such as SHA that are specified to operate on sequences of bytes.

The rule by which Digest::SHA handles a Unicode string is easy
to state, but potentially confusing to grasp: the string is interpreted
as a sequence of byte values, where each byte value is equal to the
ordinal value (viz. code point) of its corresponding Unicode character.
That way, the Unicode string 'abc' has exactly the same digest value as
the ordinary string 'abc'.

Since a wide character does not fit into a byte, the Digest::SHA
routines croak if they encounter one. Whereas if a Unicode string
contains no wide characters, the module accepts it quite happily.
The following code illustrates the two cases:

```perl
$str1 = pack('U*', (0..255));
print sha1_hex($str1);# ok

$str2 = pack('U*', (0..256));
print sha1_hex($str2);# croaks
```

Be aware that the digest routines silently convert UTF-8 input into its
equivalent byte sequence in the native encoding (cf. utf8::downgrade).
This side effect influences only the way Perl stores the data internally,
but otherwise leaves the actual value of the data intact.

=head1 NIST STATEMENT ON SHA-1

NIST acknowledges that the work of Prof. Xiaoyun Wang constitutes a
practical collision attack on SHA-1. Therefore, NIST encourages the
rapid adoption of the SHA-2 hash functions (e.g. SHA-256) for applications
requiring strong collision resistance, such as digital signatures.


=head1 PADDING OF BASE64 DIGESTS

By convention, CPAN Digest modules do B<not> pad their Base64 output.
Problems can occur when feeding such digests to other software that
expects properly padded Base64 encodings.

For the time being, any necessary padding must be done by the user.
Fortunately, this is a simple operation: if the length of a Base64-encoded
digest isn't a multiple of 4, simply append "=" characters to the end
of the digest until it is:

```perl
while (length($b64_digest) % 4) {
    $b64_digest .= '=';
}
```

To illustrate, I<sha256_base64("abc")> is computed to be
which has a length of 43. So, the properly padded version is

```
=head1 EXPORT

None by default.
```

=head1 EXPORTABLE FUNCTIONS

Provided your C compiler supports a 64-bit type (e.g. the I<\texttt{long long}> of C99, or I<\texttt{\_\_int64}> used by Microsoft C/C++), all of these functions will be available for use. Otherwise, you won’t be able to perform the SHA-384 and SHA-512 transforms, both of which require 64-bit operations.

I<Functional style>

=over 4

=item B<sha1($data, ...)> 
=item B<sha224($data, ...)> 
=item B<sha256($data, ...)> 
=item B<sha384($data, ...)> 
=item B<sha512($data, ...)> 
=item B<sha512224($data, ...)> 
=item B<sha512256($data, ...)> 

Logically joins the arguments into a single string, and returns its SHA-1/224/256/384/512 digest encoded as a binary string.

=item B<sha1\_hex($data, ...)> 
=item B<sha224\_hex($data, ...)> 
=item B<sha256\_hex($data, ...)> 
=item B<sha384\_hex($data, ...)> 
=item B<sha512\_hex($data, ...)>
Logically joins the arguments into a single string, and returns its SHA-1/224/256/384/512 digest encoded as a hexadecimal string.

Logically joins the arguments into a single string, and returns its SHA-1/224/256/384/512 digest encoded as a Base64 string.

It's important to note that the resulting string does not contain the padding characters typical of Base64 encodings. This omission is deliberate, and is done to maintain compatibility with the family of CPAN Digest modules. See L</"PADDING OF BASE64 DIGESTS"> for details.

Returns a new Digest::SHA object. Allowed values for $alg are 1, 224, 256, 384, 512, 512224, or 512256. It's also possible to use common string representations of the algorithm (e.g. "sha256", "SHA-384"). If the argument is missing, SHA-1 will be used by default.

Invoking new as an instance method will reset the object to the initial state associated with $alg. If the argument is missing, the object will continue using the same algorithm that was selected at creation.
This method has exactly the same effect as \texttt{new($alg)}$. In fact, \texttt{reset} is just an alias for \texttt{new}.

\item \texttt{hashsize}

Returns the number of digest bits for this object. The values are 160, 224, 256, 384, 512, 224, and 256 for SHA-1, SHA-224, SHA-256, SHA-384, SHA-512, SHA-512/224 and SHA-512/256, respectively.

\item \texttt{algorithm}

Returns the digest algorithm for this object. The values are 1, 224, 256, 384, 512, 512224, and 512256 for SHA-1, SHA-224, SHA-256, SHA-384, SHA-512, SHA-512/224, and SHA-512/256, respectively.

\item \texttt{clone}

Returns a duplicate copy of the object.

\item \texttt{add($data, ...)}

Logically joins the arguments into a single string, and uses it to update the current digest state. In other words, the following statements have the same effect:

\begin{verbatim}
$sha->add("a"); $sha->add("b"); $sha->add("c");
$sha->add("a")->add("b")->add("c");
$sha->add("a", "b", "c");
$sha->add("abc");
\end{verbatim}

The return value is the updated object itself.

\item \texttt{add_bits($data, $nbites)}

\item \texttt{add_bits($bits)}

Updates the current digest state by appending bits to it. The return value is the updated object itself.

The first form causes the most-significant \texttt{$nbites} of \texttt{$data} to be appended to the stream. The \texttt{$data} argument is in the customary binary format used for Perl strings.

The second form takes an ASCII string of "0" and "1" characters as its argument. It's equivalent to
$sha->add_bits(pack("B*", $bits), length($bits));

So, the following two statements do the same thing:

$sha->add_bits("111100001010");
$sha->add_bits("\xF0\xA0", 12);

Note that SHA-1 and SHA-2 use I<most-significant-bit ordering> for their internal state. This means that

$sha3->add_bits("110");

is equivalent to

$sha3->add_bits("1")->add_bits("1")->add_bits("0");

=item B<addfile(*FILE)>  

Reads from I<FILE> until EOF, and appends that data to the current state. The return value is the updated object itself.

=item B<addfile($filename [, $mode])>  

Reads the contents of I<$filename>, and appends that data to the current state. The return value is the updated object itself.

By default, I<$filename> is simply opened and read; no special modes or I/O disciplines are used. To change this, set the optional I<$mode> argument to one of the following values:

"b" read file in binary mode

"U" use universal newlines

"0" use BITS mode

The "U" mode is modeled on Python's "Universal Newlines" concept, whereby DOS and Mac OS line terminators are converted internally to UNIX newlines before processing. This ensures consistent digest values when working simultaneously across multiple file systems. B<The "U" mode influences only text files>, namely those passing Perl s I<-T> test; binary files are processed with no translation whatsoever.

The BITS mode ("0") interprets the contents of I<$filename> as a logical stream of bits, where each ASCII '0' or '1' character represents a 0 or 1 bit, respectively. All other characters are ignored. This provides a convenient way to calculate the digest values of partial-byte data.
by using files, rather than having to write separate programs employing the \texttt{add_bits} method.

\item \texttt{getstate}

Returns a string containing a portable, human-readable representation of the current SHA state.

\item \texttt{putstate($str)}

Returns a Digest::SHA object representing the SHA state contained in \texttt{$str}. The format of \texttt{$str} matches the format of the output produced by method \texttt{getstate}. If called as a class method, a new object is created; if called as an instance method, the object is reset to the state contained in \texttt{$str}.

\item \texttt{dump($filename)}

Writes the output of \texttt{getstate} to \texttt{$filename}. If the argument is missing, or equal to the empty string, the state information will be written to STDOUT.

\item \texttt{load($filename)}

Returns a Digest::SHA object that results from calling \texttt{putstate} on the contents of \texttt{$filename}. If the argument is missing, or equal to the empty string, the state information will be read from STDIN.

\item \texttt{digest}

Returns the digest encoded as a binary string.

Note that the \texttt{digest} method is a read-once operation. Once it has been performed, the Digest::SHA object is automatically reset in preparation for calculating another digest value. Call \texttt{$sha->clone->digest} if it's necessary to preserve the original digest state.

\item \texttt{hexdigest}

Returns the digest encoded as a hexadecimal string.

Like \texttt{digest}, this method is a read-once operation. Call \texttt{$sha->clone->hexdigest} if it's necessary to preserve the original digest state.

\item \texttt{b64digest}

Returns the digest encoded as a Base64 string.
Returns the digest encoded as a Base64 string.

Like I<digest>, this method is a read-once operation. Call I<$shaE>cloneE>b64digest if it's necessary to preserve the original digest state.

It's important to note that the resulting string does B<not> contain the padding characters typical of Base64 encodings. This omission is deliberate, and is done to maintain compatibility with the family of CPAN Digest modules. See L</"PADDING OF BASE64 DIGESTS"> for details.

=back

I<HMAC-SHA-1/224/256/384/512>

=over 4

=item B<hmac_sha1($data, $key)>

=item B<hmac_sha224($data, $key)>

=item B<hmac_sha256($data, $key)>

=item B<hmac_sha384($data, $key)>

=item B<hmac_sha512($data, $key)>

=item B<hmac_sha512224($data, $key)>

=item B<hmac_sha512256($data, $key)>

Returns the HMAC-SHA-1/224/256/384/512 digest of I<$data>/I<$key>, with the result encoded as a binary string. Multiple I<$data> arguments are allowed, provided that I<$key> is the last argument in the list.

=item B<hmac_sha1_hex($data, $key)>

=item B<hmac_sha224_hex($data, $key)>

=item B<hmac_sha256_hex($data, $key)>

=item B<hmac_sha384_hex($data, $key)>

=item B<hmac_sha512_hex($data, $key)>

=item B<hmac_sha512224_hex($data, $key)>

=item B<hmac_sha512256_hex($data, $key)>
=item B<hmac_sha512256_hex($data, $key)>

Returns the HMAC-SHA-1/224/256/384/512 digest of I<$data>/I<$key>, with the result encoded as a hexadecimal string. Multiple I<$data> arguments are allowed, provided that I<$key> is the last argument in the list.

=item B<hmac_sha1_base64($data, $key)>

=item B<hmac_sha224_base64($data, $key)>

=item B<hmac_sha256_base64($data, $key)>

=item B<hmac_sha384_base64($data, $key)>

=item B<hmac_sha512_base64($data, $key)>

=item B<hmac_sha512224_base64($data, $key)>

=item B<hmac_sha512256_base64($data, $key)>

Returns the HMAC-SHA-1/224/256/384/512 digest of I<$data>/I<$key>, with the result encoded as a Base64 string. Multiple I<$data> arguments are allowed, provided that I<$key> is the last argument in the list.

It's important to note that the resulting string does B<not> contain the padding characters typical of Base64 encodings. This omission is deliberate, and is done to maintain compatibility with the family of CPAN Digest modules. See L</"PADDING OF BASE64 DIGESTS"> for details.

=back

=head1 SEE ALSO

L<Digest>, L<Digest::SHA::PurePerl>

The Secure Hash Standard (Draft FIPS PUB 180-4) can be found at:


The Keyed-Hash Message Authentication Code (HMAC):


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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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compiler/cpp/src/thrift/generate/t_st_generator.cc
compiler/cpp/src/thrift/generate/t_xsd_generator.cc
compiler/cpp/src/thrift/main.cc
compiler/cpp/src/thrift/parse/t_field.h
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compiler/cpp/src/thrift/platform.h
compiler/cpp/src/thrift/thriftl.ll
compiler/cpp/src/thrift/thirfty.yy
lib/netstd/Thrift/Protocol/TBinaryProtocol.cs
lib/netstd/Thrift/Protocol/Entities/TField.cs
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lib/netstd/Thrift/Protocol/Entities/TMessageType.cs
lib/netstd/Thrift/Protocol/TProtocol.cs
lib/netstd/Thrift/Protocol/TProtocolException.cs
lib/netstd/Thrift/Protocol/TProtocolFactory.cs
lib/netstd/Thrift/Protocol/Utilities/TProtocolUtil.cs
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lib/netstd/Thrift/Protocol/Entities/TStruct.cs
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lib/netstd/Thrift/Server/TServer.cs
lib/netstd/Thrift/Server/TSimpleAsyncServer.cs
lib/netstd/Thrift/Server/TThreadPoolAsyncServer.cs
lib/netstd/Thrift/Server/TApplicationException.cs
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For the aclocal/ax_boost_base.m4 and contrib/fb303/aclocal/ax_boost_base.m4 components:

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*/
(By Douglas Crockford <douglas@crockford.com>)

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*/
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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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1.260 perl-test-harness 3.42-1.el8

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=head1 SYNOPSIS

use TAP::Parser;

my $parser = TAP::Parser->new( { source => $source } );

while ( my $result = $parser->next ) {
    print $result->as_string;
}

=head1 DESCRIPTION

C<TAP::Parser> is designed to produce a proper parse of TAP output. For an example of how to run tests through this module, see the simple harnesses C<examples/>.

There's a wiki dedicated to the Test Anything Protocol:

L<http://testanything.org>

It includes the TAP::Parser Cookbook:

L<http://testanything.org/testing-with-tap/perl/tap::parser-cookbook.html>

=head1 METHODS

=head2 Class Methods

=head3 C<new>

my $parser = TAP::Parser->new(%args);

Returns a new C<TAP::Parser> object.

The arguments should be a hashref with one of the following keys:

 over 4

=item * C<source>

I<CHANGED in 3.18>
This is the preferred method of passing input to the constructor.

The C<source> is used to create a L<TAP::Parser::Source> that is passed to the L<iterator_factory_class> which in turn figures out how to handle the source and creates a <TAP::Parser::Iterator> for it. The iterator is used by the parser to read in the TAP stream.

To configure the I<IteratorFactory> use the C<sources> parameter below.

Note that C<source>, C<tap> and C<exec> are I<mutually exclusive>.

=item * C<tap>

I<CHANGED in 3.18>

The value should be the complete TAP output.

The I<tap> is used to create a L<TAP::Parser::Source> that is passed to the L<iterator_factory_class> which in turn figures out how to handle the source and creates a <TAP::Parser::Iterator> for it. The iterator is used by the parser to read in the TAP stream.

To configure the I<IteratorFactory> use the C<sources> parameter below.

Note that C<source>, C<tap> and C<exec> are I<mutually exclusive>.

=item * C<exec>

Must be passed an array reference.

The I<exec> array ref is used to create a L<TAP::Parser::Source> that is passed to the L<iterator_factory_class> which in turn figures out how to handle the source and creates a <TAP::Parser::Iterator> for it. The iterator is used by the parser to read in the TAP stream.

By default the L<TAP::Parser::SourceHandler::Executable> class will create a L<TAP::Parser::Iterator::Process> object to handle the source. This passes the array reference strings as command arguments to L<IPC::Open3::open3|IPC::Open3>:

```perl
exec => [ '/usr/bin/ruby', 't/my_test.rb' ]
```

If any C<test_args> are given they will be appended to the end of the command argument list.

To configure the I<IteratorFactory> use the C<sources> parameter below.

Note that C<source>, C<tap> and C<exec> are I<mutually exclusive>. 
The following keys are optional.

If set, \texttt{sources} must be a hashref containing the names of the \texttt{TAP::Parser::SourceHandler}s to load and/or configure. The values are a hash of configuration that will be accessible to the source handlers via \texttt{TAP::Parser::Source/config_for}.

For example:

\begin{verbatim}
  sources => {
    Perl => { exec => '/path/to/custom/perl' },
    File => { extensions => ['.tap', '.txt'] },
    MyCustom => { some => 'config' },
  }
\end{verbatim}

This will cause \texttt{TAP::Parser} to pass custom configuration to two of the built-in source handlers - \texttt{TAP::Parser::SourceHandler::Perl}, \texttt{TAP::Parser::SourceHandler::File} - and attempt to load the \texttt{MyCustom} class. See \texttt{TAP::Parser::IteratorFactory/load_handlers} for more detail.

The \texttt{sources} parameter affects how \texttt{source}, \texttt{tap} and \texttt{exec} parameters are handled.

See \texttt{TAP::Parser::IteratorFactory}, \texttt{TAP::Parser::SourceHandler} and subclasses for more details.

If present, each callback corresponding to a given result type will be called with the result as the argument if the \texttt{run} method is used:

\begin{verbatim}
my %callbacks = (
  test => \&test_callback,
  plan => \&plan_callback,
  comment => \&comment_callback,
  bailout => \&bailout_callback,
  unknown => \&unknown_callback,
);

my $aggregator = TAP::Parser::Aggregator->new;
\end{verbatim}
for my $file ( @test_files ) {
    my $parser = TAP::Parser->new(
        {
            source => $file,
            callbacks => \%callbacks,
        }
    );
    $parser->run;
    $aggregator->add( $file, $parser );
}

=item * C<switches>

If using a Perl file as a source, optional switches may be passed which will be used when invoking the perl executable.

my $parser = TAP::Parser->new( {
    source => $test_file,
    switches => ['-Ilib'],
} );

=item * C<test_args>

Used in conjunction with the C<source> and C<exec> option to supply a reference to an C<@ARGV> style array of arguments to pass to the test program.

=item * C<spool>

If passed a filehandle will write a copy of all parsed TAP to that handle.

=item * C<merge>

If false, STDERR is not captured (though it is 'relayed' to keep it somewhat synchronized with STDOUT.)

If true, STDERR and STDOUT are the same filehandle. This may cause breakage if STDERR contains anything resembling TAP format, but does allow exact synchronization.

Subtleties of this behavior may be platform-dependent and may change in the future.

=item * C<grammar_class>

This option was introduced to let you easily customize which I<grammar> class the parser should use. It defaults to L<TAP::Parser::Grammar>.

See also L</make_grammar>. 

---

Open Source Used In APIC-SE-BATMAN 2.1.1d 3709
=item * C<result_factory_class>

This option was introduced to let you easily customize which \<result> factory class the parser should use. It defaults to \L\<TAP::Parser::ResultFactory>.

See also \L</make_result>.

=item * C<iterator_factory_class>

I<CHANGED in 3.18>

This option was introduced to let you easily customize which \<iterator> factory class the parser should use. It defaults to \L\<TAP::Parser::IteratorFactory>.

=back
=cut
=head1 CALLBACKS

As mentioned earlier, a "callback" key may be added to the \C\<TAP::Parser> constructor. If present, each callback corresponding to a given result type will be called with the result as the argument if the \C<run> method is used. The callback is expected to be a subroutine reference (or anonymous subroutine) which is invoked with the parser result as its argument.

my %callbacks = ( 
  test => &test_callback, 
  plan => &plan_callback, 
  comment => &comment_callback, 
  bailout => &bailout_callback, 
  unknown => &unknown_callback, 
 );

my $aggregator = TAP::Parser::Aggregator->new;
for my $file ( @test_files ) { 
  my $parser = TAP::Parser->new( 
    source => $file, 
    callbacks => \%callbacks, 
  );
  $parser->run;
  $aggregator->add( $file, $parser );
}
Callbacks may also be added like this:

$parser->callback( test => \&test_callback );
$parser->callback( plan => \&plan_callback );

The following keys allowed for callbacks. These keys are case-sensitive.

=over 4
=item C<test>
Invoked if C<< $result->is_test >> returns true.
=item C<version>
Invoked if C<< $result->is_version >> returns true.
=item C<plan>
Invoked if C<< $result->is_plan >> returns true.
=item C<comment>
Invoked if C<< $result->is_comment >> returns true.
=item C<bailout>
Invoked if C<< $result->is_unknown >> returns true.
=item C<yaml>
Invoked if C<< $result->is_yaml >> returns true.
=item C<unknown>
Invoked if C<< $result->is_unknown >> returns true.
=item C<ELSE>
If a result does not have a callback defined for it, this callback will
be invoked. Thus, if all of the previous result types are specified as
callbacks, this callback will I<never> be invoked.
=item C<ALL>
This callback will always be invoked and this will happen for each
result after one of the above callbacks is invoked. For example, if
L<Term::ANSIColor> is loaded, you could use the following to color your test output:

```perl
my %callbacks = (
    test => sub {
        my $test = shift;
        if ( $test->is_ok && not $test->directive ) {
            # normal passing test
            print color 'green';
        } elsif ( !$test->is_ok ) {    # even if it's TODO
            print color 'white on_red';
        } elsif ( $test->has_skip ) {
            print color 'white on_blue';
        } elsif ( $test->has_todo ) {
            print color 'white';
        },
        ELSE => sub {
            # plan, comment, and so on (anything which isn't a test line)
            print color 'black on_white';
        },
        ALL => sub {
            # now print them
            print shift->as_string;
            print color 'reset';
            print "\n";
        },
    );

=item * C<EOF>
```

Invoked when there are no more lines to be parsed. Since there is no accompanying L<TAP::Parser::Result> object the C<TAP::Parser> object is passed instead.

=back

=head1 TAP GRAMMAR

If you're looking for an EBNF grammar, see L<TAP::Parser::Grammar>.

=head1 BACKWARDS COMPATIBILITY

The Perl-QA list attempted to ensure backwards compatibility with
L<Test::Harness>. However, there are some minor differences.

=head2 Differences

=over 4

=item * TODO plans

A little-known feature of L<Test::Harness> is that it supported TODO lists in the plan:

1..2 todo 2  
ok 1 - We have liftoff  
not ok 2 - Anti-gravity device activated

Under L<Test::Harness>, test number 2 would I<pass> because it was listed as a TODO test on the plan line. However, we are not aware of anyone actually using this feature and hard-coding test numbers is discouraged because it's very easy to add a test and break the test number sequence. This makes test suites very fragile. Instead, the following should be used:

1..2  
ok 1 - We have liftoff  
not ok 2 - Anti-gravity device activated # TODO

=item * 'Missing' tests

It rarely happens, but sometimes a harness might encounter 'missing tests:

ok 1  
ok 2  
ok 15  
ok 16  
ok 17

L<Test::Harness> would report tests 3-14 as having failed. For the C<TAP::Parser>, these tests are not considered failed because they've never run. They're reported as parse failures (tests out of sequence).

=back

=head1 SUBCLASSEING

If you find you need to provide custom functionality (as you would have using L<Test::Harness::Straps>), you're in luck: C<TAP::Parser> and friends are designed to be easily plugged-into and/or subclassed.
Before you start, it's important to know a few things:

=over 2

=item 1

All C<TAP::*> objects inherit from L<TAP::Object>.

=item 2

Many C<TAP::*> classes have a I<SUBCLASSING> section to guide you.

=item 3

Note that C<TAP::Parser> is designed to be the central "maker" - ie: it is responsible for creating most new objects in the C<TAP::Parser::*> namespace.

This makes it possible for you to have a single point of configuring what subclasses should be used, which means that in many cases you'll find you only need to sub-class one of the parser's components.

The exception to this rule are I<SourceHandlers> & I<Iterators>, but those are both created with customizable I<IteratorFactory>.

=item 4

By subclassing, you may end up overriding undocumented methods. That's not a bad thing per se, but be forewarned that undocumented methods may change without warning from one release to the next - we cannot guarantee backwards compatibility. If any I<documented> method needs changing, it will be deprecated first, and changed in a later release.

=back

=head2 Parser Components

=head3 Sources

A TAP parser consumes input from a single I<raw source> of TAP, which could come from anywhere (a file, an executable, a database, an IO handle, a URI, etc..). The source gets bundled up in a L<TAP::Parser::Source> object which gathers some meta data about it. The parser then uses a L<TAP::Parser::IteratorFactory> to determine which L<TAP::Parser::SourceHandler> to use to turn the raw source into a stream of TAP by way of L<Iterators>.

If you simply want C<TAP::Parser> to handle a new source of TAP you probably don't need to subclass C<TAP::Parser> itself. Rather, you'll need to create a
new L<TAP::Parser::SourceHandler> class, and just plug it into the parser using the I<sources> param to L</new>. Before you start writing one, read through L<TAP::Parser::IteratorFactory> to get a feel for how the system works first.

If you find you really need to use your own iterator factory you can still do so without sub-classing C<TAP::Parser> by setting L</iterator_factory_class>.

If you just need to customize the objects on creation, subclass L<TAP::Parser> and override L</make_iterator_factory>.

Note that C<make_source> & C<make_perl_source> have been I<DEPRECATED> and are now removed.

=head3 Iterators

A TAP parser uses I<iterators> to loop through the I<stream> of TAP read in from the I<source> it was given. There are a few types of Iterators available by default, all sub-classes of L<TAP::Parser::Iterator>. Choosing which iterator to use is the responsibility of the I<iterator factory>, though it simply delegates to the I<Source Handler> it uses.

If you're writing your own L<TAP::Parser::SourceHandler>, you may need to create your own iterators too. If so you'll need to subclass L<TAP::Parser::Iterator>.

Note that L</make_iterator> has been I<DEPRECATED> and is now removed.

=head3 Results

A TAP parser creates L<TAP::Parser::Result>s as it iterates through the input I<stream>. There are quite a few result types available; choosing which class to use is the responsibility of the I<result factory>.

To create your own result types you have two options:

=over 2

=item option 1

Subclass L<TAP::Parser::Result> and register your new result type/class with the default L<TAP::Parser::ResultFactory>.

=item option 2

Subclass L<TAP::Parser::ResultFactory> itself and implement your own L<TAP::Parser::Result> creation logic. Then you'll need to customize the class used by your parser by setting the C<result_factory_class> parameter. See L</new> for more details.
If you need to customize the objects on creation, subclass \texttt{L<TAP::Parser>} and override \texttt{L</make_result>}. 

=head3 Grammar

\texttt{L<TAP::Parser::Grammar>} is the heart of the parser. It tokenizes the TAP input \texttt{L</stream>} and produces results. If you need to customize its behaviour you should probably familiarize yourself with the source first. Enough lecturing.

Subclass \texttt{L<TAP::Parser::Grammar>} and customize your parser by setting the \texttt{L</grammar_class>} parameter. See \texttt{L</new>} for more details.

If you need to customize the objects on creation, subclass \texttt{L<TAP::Parser>} and override \texttt{L</make_grammar>}

=head1 ACKNOWLEDGMENTS

All of the following have helped. Bug reports, patches, (im)moral support, or just words of encouragement have all been forthcoming.

=over 4
=item * Michael Schwern
=item * Andy Lester
=item * chromatic
=item * GEOFFR
=item * Shlomi Fish
=item * Torsten Schoenfeld
=item * Jerry Gay
=item * Aristotle
=item * Adam Kennedy
=item * Yves Orton
=item * Adrian Howard
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BUGS

Please report any bugs or feature requests to C<bug-test-harness@rt.cpan.org>, or through the web interface at L<http://rt.cpan.org/NoAuth/ReportBug.html?Queue=Test-Harness>. We will be notified, and then you'll automatically be notified of
progress on your bug as we make changes.

Obviously, bugs which include patches are best. If you prefer, you can patch against bleed by via anonymous checkout of the latest version:

git clone git://github.com/Perl-Toolchain-Gang/Test-Harness.git

=head1 COPYRIGHT & LICENSE

Copyright 2006-2008 Curtis "Ovid" Poe, all rights reserved.

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

=cut

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##############################################################################

=head1 CONFIGURING

C<TAP::Harness> is designed to be easy to configure.

=head2 Plugins

C<TAP::Parser> plugins let you change the way TAP is I<input> to and I<output> from the parser.

L<TAP::Parser::SourceHandler>s handle TAP I<input>. You can configure them and load custom handlers using the C<sources> parameter to L</new>.

L<TAP::Formatter>s handle TAP I<output>. You can load custom formatters by using the C<formatter_class> parameter to L</new>. To configure a formatter, you currently need to instantiate it outside of L<TAP::Harness> and pass it in with the C<formatter> parameter to L</new>. This I<may> be addressed by adding a I<formatters> parameter to L</new> in the future.

=head2 C<Module::Build>

L<Module::Build> version C<0.30> supports C<TAP::Harness>.

To load C<TAP::Harness> plugins, you'll need to use the C<tap_harness_args> parameter to C<new>, typically from your C<Build.PL>. For example:
Module::Build->new(
    module_name       => 'MyApp',
    test_file_exts    => [qw(.t .tap .txt)],
    use_tap_harness   => 1,
    tap_harness_args  => {
        sources => {
            MyCustom => { },
            File => {
                extensions => ['.tap', '.txt'],
            },
        },
        formatter_class => 'TAP::Formatter::HTML',
    },
    build_requires    => {
        'Module::Build' => '0.30',
        'TAP::Harness' => '3.18',
    },
)->create_build_script;

See L</new>

=head2 C<ExtUtils::MakeMaker>

L<ExtUtils::MakeMaker> does not support L<TAP::Harness> out-of-the-box.

=head2 C<prove>

L<prove> supports C<TAP::Harness> plugins, and has a plugin system of its own. See L<prove/FORMATTERS>, L<prove/SOURCE HANDLERS> and L<App::Prove> for more details.

=head1 WRITING PLUGINS

If you can't configure C<TAP::Harness> to do what you want, and you can't find an existing plugin, consider writing one.

The two primary use cases supported by L<TAP::Harness> for plugins are I<input> and I<output>:

=over 2

=item Customize how TAP gets into the parser

To do this, you can either extend an existing L<TAP::Parser::SourceHandler>, or write your own. It's a pretty simple API, and they can be loaded and configured using the C<sources> parameter to L</new>.

=item Customize how TAP results are output from the parser
To do this, you can either extend an existing L\<TAP::Formatter\>, or write your own. Writing formatters are a bit more involved than writing a L\<SourceHandler\>, as you'll need to understand the L\<TAP::Parser\> API. A good place to start is by understanding how L</aggregate_tests> works.

Custom formatters can be loaded configured using the C<formatter_class> parameter to L</new>.

=head1 SUBCLASING

If you can't configure C<TAP::Harness> to do exactly what you want, and writing a plugin isn't an option, consider extending it. It is designed to be (mostly) easy to subclass, though the cases when sub-classing is necessary should be few and far between.

=head2 Methods

The following methods are ones you may wish to override if you want to subclass C<TAP::Harness>.

=over 4

=item L</new>

=item L</runtests>

=item L</summary>

=back

=cut

=head1 REPLACING

If you like the C<prove> utility and L<TAP::Parser> but you want your own harness, all you need to do is write one and provide C<new> and C<runtests> methods. Then you can use the C<prove> utility like so:

prove --harness My::Test::Harness

Note that while C<prove> accepts a list of tests (or things to be tested), C<new> has a fairly rich set of arguments. You'll probably want to read over this code carefully to see how all of them are being used.

=head1 SEE ALSO
L<Test::Harness>

cut

# vim:ts=4:sw=4:et:sta

Found in path(s):
  */opt/cola/permits/1178587476_1625692278.26/0/perl-Test-Harness-3.42-1.el8-1.src.rpm-cosi-expand-archive-
  7miAJXsZ/Test-Harness-3.42.tar.gz-cosi-expand-archive-pAkYYjvM/Test-Harness-3.42/lib/TAP/Harness.pm
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=head1 SUBCLASING

Please see L<TAP::Parser/SUBCLASSING> for a subclassing overview.

=head2 Example

If we've done things right, you'll probably want to write a new source,
rather than sub-classing this (see L<TAP::Parser::SourceHandler> for that).

But in case you find the need to...

package MyIteratorFactory;

use strict;

use base 'TAP::Parser::IteratorFactory';

# override source detection algorithm
sub detect_source {
  my ($self, $raw_source_ref, $meta) = @_;  
  # do detective work, using $meta and whatever else...
}

1;

=head1 AUTHORS

Steve Purkis

=head1 ATTRIBUTION

Originally ripped off from L<Test::Harness>.

Moved out of L<TAP::Parser> & converted to a factory class to support
extensible TAP source detective work by Steve Purkis.
SEE ALSO

L<TAP::Object>,
L<TAP::Parser>,
L<TAP::Parser::SourceHandler>,
L<TAP::Parser::SourceHandler::File>,
L<TAP::Parser::SourceHandler::Perl>,
L<TAP::Parser::SourceHandler::RawTAP>,
L<TAP::Parser::SourceHandler::Handle>,
L<TAP::Parser::SourceHandler::Executable>

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EXPORT

C<&runtests> is exported by C<Test::Harness> by default.

C<&execute_tests>, C<$verbose>, C<$switches> and C<$debug> are exported upon request.

ENVIRONMENT VARIABLES THAT TAP::HARNESS::COMPATIBLE SETS

C<Test::Harness> sets these before executing the individual tests.

=over 4

=item C<HARNESS_ACTIVE>

This is set to a true value. It allows the tests to determine if they are being executed through the harness or by any other means.

=item C<HARNESS_VERSION>

This is the version of C<Test::Harness>.

=back

ENVIRONMENT VARIABLES THAT AFFECT TEST::HARNESS

=over 4

=item C<HARNESS_PERL_SWITCHES>
Setting this adds perl command line switches to each test file run.

For example, \texttt{HARNESS\_PERL\_SWITCHES=-T} will turn on taint mode. \texttt{HARNESS\_PERL\_SWITCHES=-MDevel::Cover} will run \texttt{Devel::Cover} for each test.

\texttt{-w} is always set. You can turn this off in the test with \texttt{BEGIN \{ $\^W = 0 \}}.

\textbf{HARNESS\_TIMER}

Setting this to true will make the harness display the number of milliseconds each test took. You can also use \texttt{prove}'s \texttt{--timer} switch.

\textbf{HARNESS\_VERBOSE}

If true, \texttt{Test::Harness} will output the verbose results of running its tests. Setting \texttt{Test::Harness::verbose} will override this, or you can use the \texttt{-v} switch in the \texttt{prove} utility.

\textbf{HARNESS\_OPTIONS}

Provide additional options to the harness. Currently supported options are:

\begin{itemize}
  \item \texttt{\textless j<n> \gg} \quad \text{Run <n> (default 9) parallel jobs.}
  \item \texttt{\textless c \gg} \quad \text{Try to color output. See \texttt{TAP::Formatter::Base/new}.}
  \item \texttt{\textless a<file.tgz> \gg} \quad \text{Will use \texttt{TAP::Harness::Archive} as the harness class, and save the TAP to \texttt{file.tgz}}
  \item \texttt{\textless fPackage-With-Dashes \gg} \quad \text{Set the formatter_class of the harness being run. Since the \texttt{HARNESS\_OPTIONS} is seperated by \texttt{;}, we use \texttt{->} instead.}
\end{itemize}
Multiple options may be separated by colons:

HARNESS_OPTIONS=j9:c make test

=back

=head1 Taint Mode

Normally when a Perl program is run in taint mode the contents of the C<PERL5LIB> environment variable do not appear in C<@INC>.

Because C<PERL5LIB> is often used during testing to add build directories to C<@INC> C<Test::Harness> passes the names of any directories found in C<PERL5LIB> as -I switches. The net effect of this is that C<PERL5LIB> is honoured even in taint mode.

=head1 SEE ALSO

L<TAP::Harness>

=head1 BUGS

Please report any bugs or feature requests to C<bug-test-harness at rt.cpan.org>, or through the web interface at L<http://rt.cpan.org/NoAuth/ReportBug.html?Queue=Test-Harness>. I will be notified, and then you'll automatically be notified of progress on your bug as I make changes.

=head1 AUTHORS

Andy Armstrong  C<< <andy@hexten.net> >>

L<Test::Harness> 2.64 (maintained by Andy Lester and on which this module is based) has this attribution:
Either Tim Bunce or Andreas Koenig, we don't know. What we know for sure is, that it was inspired by Larry Wall's F<TEST> script that came with perl distributions for ages. Numerous anonymous contributors exist. Andreas Koenig held the torch for many years, and then Michael G Schwern.

=head1 LICENCE AND COPYRIGHT

Copyright (c) 2007-2011, Andy Armstrong C<< <andy@hexten.net> >>. All rights reserved.

This module is free software; you can redistribute it and/or modify it under the same terms as Perl itself. See L<perlartistic>.

Found in path(s):

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=head1 NAME

TAP::Parser::YAMLish::Reader - Read YAMLish data from iterator

=head1 VERSION

Version 3.42

=head1 SYNOPSIS

Note that parts of this code were derived from L<YAML::Tiny> with the permission of Adam Kennedy.

=head1 METHODS

=head2 Class Methods

=head3 C<new>

The constructor C<new> creates and returns an empty C<TAP::Parser::YAMLish::Reader> object.

my $reader = TAP::Parser::YAMLish::Reader->new;
my $got = $reader->read($iterator);

Read YAMLish from a \texttt{L\textasciitilde TAP::Parser::Iterator} and return the data structure it represents.

my $source = $reader->get_source;

Return the raw YAMLish source from the most recent \texttt{C\textasciitilde read}.

\textbf{AUTHOR}

Andy Armstrong, \texttt{<andy@hexten.net>}

Adam Kennedy wrote \texttt{L\textasciitilde YAML::Tiny} which provided the template and many of the YAML matching regular expressions for this module.

\textbf{SEE ALSO}

\texttt{L\textasciitilde YAML::Tiny}, \texttt{L\textasciitilde YAML}, \texttt{L\textasciitilde YAML::Syck}, \texttt{L\textasciitilde Config::Tiny}, \texttt{L\textasciitilde CSS::Tiny}, \texttt{L\textasciitilde http://use.perl.org/~Alias/journal/29427}

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

 The full text of the license can be found in the LICENSE file included with this module.
Originally ripped off from L<Test::Harness>.

=head1 SEE ALSO

L<TAP::Object>,
L<TAP::Parser>,
L<TAP::Parser::Iterator>,
=cut

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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 7.24, CPAN::Meta::Converter version 2.150005'
keywords:
  - TAP
  - test
  - harness
  - prove
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Test-Harness
no_index:
directory:
  - t
  - inc
recommends:
  Pod::Usage: '1.12'
requires: {}
resources:
homepage: http://testanything.org/
repository: http://github.com/Perl-Toolchain-Gang/Test-Harness/tree/master
version: '3.42'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'
Found in path(s):
No license file was found, but licenses were detected in source scan.
=pod
=head1 NAME
TAP::Parser::YAMLish::Writer - Write YAMLish data
=head1 VERSION
Version 3.42
=head1 SYNOPSIS
use TAP::Parser::YAMLish::Writer;
my $data = {
one => 1,
two => 2,
three => [ 1, 2, 3 ],
};
my $yw = TAP::Parser::YAMLish::Writer->new;
# Write to an array...
$yw->write( $data, \@some_array );
# ...an open file handle...
$yw->write( $data, $some_file_handle );
# ...a string ...
$yw->write( $data, \$some_string );
# ...or a closure
$yw->write( $data, sub {
my $line = shift;
print "$line\n";

Open Source Used In APIC-SE-BATMAN 2.1.1d 3728


=head1 DESCRIPTION

Encodes a scalar, hash reference or array reference as YAMLish.

=head1 METHODS

=head2 Class Methods

=head3 C<new>

my $writer = TAP::Parser::YAMLish::Writer->new;

The constructor C<new> creates and returns an empty C<TAP::Parser::YAMLish::Writer> object.

=head2 Instance Methods

=head3 C<write>

$writer->write($obj, $output);

Encode a scalar, hash reference or array reference as YAML.

    my $writer = sub { 
        my $line = shift;
        print SOMEFILE "$line\n";
    };

    my $data = {
        one => 1,
        two => 2,
        three => [ 1, 2, 3 ],
    };

    my $yw = TAP::Parser::YAMLish::Writer->new;
    $yw->write( $data, $writer );

The C<$output> argument may be:

=over
=item * a reference to a scalar to append YAML to
=item * the handle of an open file
=item * a reference to an array into which YAML will be pushed

=item * a code reference

=back

If you supply a code reference the subroutine will be called once for each line of output with the line as its only argument. Passed lines will have no trailing newline.

=head1 AUTHOR

Andy Armstrong, <andy@hexten.net>

=head1 SEE ALSO

L<YAML::Tiny>, L<YAML>, L<YAML::Syck>, L<Config::Tiny>, L<CSS::Tiny>,
L<http://use.perl.org/~Alias/journal/29427>

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Test-Harness 3.24

INSTALLATION
To install Test::Harness using ExtUtils::MakeMaker do:

 perl Makefile.PL
 make
 make test
 make install

To use Module::Build (preferred) do:

 perl NotBuild.PL
 ./Build
 ./Build test
 ./Build install

This will install Test::Harness and the "prove" program. Type

 prove --help

for more information.

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1.262 perl-constant 1.33-396.el8
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---
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
constant - Perl pragma to declare constants

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,
    WDAY => 6,
    YDAY => 7,
    ISDST => 8,
    }

use constant WEEKDAYS => qw(
    Sunday Monday Tuesday Wednesday Thursday Friday Saturday
    );

print "Today is ", (WEEKDAYS)[(localtime)[WDAY] ], "\n";

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...
";  # WRONG: does not expand "PI"
print "Pi equals ".PI."...
";  # 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.
List constants

Constants may be lists of more (or less) than one value. A constant with no values evaluates to \texttt{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:

\begin{verbatim}
use constant TIMESTAMP => localtime;    # WRONG!
use constant TIMESTAMP => scalar localtime;  # right
\end{verbatim}

The first line above defines \texttt{C<TIMESTAMP>} as a 9-element list, as returned by \texttt{C<localtime()>} in list context. To set it to the string returned by \texttt{C<localtime()>} in scalar context, an explicit \texttt{C<scalar>} keyword is required.

List constants are lists, not arrays. To index or slice them, they must be placed in parentheses.

\begin{verbatim}
my @workdays = WEEKDAYS[1 .. 5];     # WRONG!
my @workdays = (WEEKDAYS)[1 .. 5];   # right
\end{verbatim}

Defining multiple constants at once

Instead of writing multiple \texttt{C<use constant>} statements, you may define multiple constants in a single statement by giving, instead of the constant name, a reference to a hash where the keys are the names of the constants to be defined. Obviously, all constants defined using this method must have a single value.

\begin{verbatim}
use constant {
    FOO => "A single value",
    BAR => "This", "won't", "work!",       # Error!
};
\end{verbatim}

This is a fundamental limitation of the way hashes are constructed in Perl. The error messages produced when this happens will often be quite cryptic -- in the worst case there may be none at all, and you'll only later find that something is broken.

When defining multiple constants, you cannot use the values of other constants defined in the same declaration. This is because the calling package doesn't know about any constant within that group until I<after> the \texttt{C<use>} statement is finished.
use constant {
    BITMASK => 0xAFBAEBA8,
    NEGMASK => ~BITMASK, # Error!
};

=head2 Magic constants

Magical values and references can be made into constants at compile time, allowing for way cool stuff like this. (These error numbers aren't totally portable, alas.)

use constant E2BIG => ($! = 7);
print E2BIG, "\n"; # something like "Arg list too long"
print 0+E2BIG, "\n"; # "7"

You can't produce a tied constant by giving a tied scalar as the value. References to tied variables, however, can be used as constants without any problems.

=head1 TECHNICAL NOTES

In the current implementation, scalar constants are actually inlinable subroutines. As of version 5.004 of Perl, the appropriate scalar constant is inserted directly in place of some subroutine calls, thereby saving the overhead of a subroutine call. See L<perlsub/Constant Functions> for details about how and when this happens.

In the rare case in which you need to discover at run time whether a particular constant has been declared via this module, you may use this function to examine the hash C<%constant::declared>. If the given constant name does not include a package name, the current package is used.

sub declared ($) {
    use constant 1.01; # don't omit this!
    my $name = shift;
    $name =~ s/^::/main::/;
    my $pkg = caller;
    my $full_name = $name =~ /::/ ? $name : "${pkg}::$name";
    $constant::declared{$full_name};
}

=head1 CAVEATS

In the current version of Perl, list constants are not inlined and some symbols may be redefined without generating a warning.
It is not possible to have a subroutine or a keyword with the same name as a constant in the same package. This is probably a Good Thing.

A constant with a name in the list `STDIN STDOUT STDERR ARGV ARGVOUT ENV INC SIG` is not allowed anywhere but in package `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 `hash{CONSTANT}` because `<CONSTANT>` will be interpreted as a string. Use `hash{CONSTANT()}` or `hash{+CONSTANT}` to prevent the bareword quoting mechanism from kicking in. Similarly, since the `<< => >>` operator quotes a bareword immediately to its left, you have to say `<< CONSTANT() => 'value' >>` (or simply use a comma in place of the big arrow) instead of `<< CONSTANT => 'value' >>`.

=head1 SEE ALSO

L<Readonly> - Facility for creating read-only scalars, arrays, hashes.

L<Attribute::Constant> - Make read-only variables via attribute

L<Scalar::Readonly> - Perl extension to the C<SvREADONLY> scalar flag

L<Hash::Util> - A selection of general-utility hash subroutines (mostly to lock/unlock keys and values)

=head1 BUGS

Please report any bugs or feature requests via the perlbug(1) utility.

=head1 AUTHORS

Tom Phoenix, <rootbeer@redcat.com>, with help from many other folks.

Multiple constant declarations at once added by Casey West, <casey@geeknest.com>.

Documentation mostly rewritten by Ilmari Karonen, <perl@itz.pp.sci.fi>.

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NAME

constant - Perl pragma to declare constants

DESCRIPTION

This pragma allows you to declare constants at compile-time.

When a constant is used in an expression, Perl replaces it with its
value at compile time, and may then optimize the expression further.
In particular, any code in an "if (CONSTANT)" block will be optimized
away if the constant is false.

INSTALLATION

To install this module, run the following commands:

    perl Makefile.PL
    make
    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

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  http://cpanratings.perl.org/d/constant

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1.263 skopeo 0.1.37-3.el7.centos

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1.264 protobuf v1.26.0

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1.268 coverage 3.6b3

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Metadata-Version: 1.1
Name: coverage
Version: 3.6b3
Summary: Code coverage measurement for Python
Home-page: http://nedbatchelder.com/code/coverage/3.6b3
Author: Ned Batchelder and others
Author-email: ned@nedbatchelder.com
License: BSD
Description: Coverage.py measures code coverage, typically during test execution. It uses
    the code analysis tools and tracing hooks provided in the Python standard
    library to determine which lines are executable, and which have been executed.

Coverage.py runs on Python 2.3 through 3.3, and PyPy 1.9.

Documentation is at `nedbatchelder.com <http://nedbatchelder.com/code/coverage/3.6b3>`_.  Code repository and issue
tracker are at `bitbucket.org <http://bitbucket.org/ned/coveragepy>`_.

New in 3.6: `--fail-under`_, and >20 bugs closed.

New in 3.5: Branch coverage exclusions, keyboard shortcuts in HTML report.

New in 3.4: Better control over source to measure, and unexecuted files
    can be reported.

New in 3.3: .coveragerc files.

New in 3.2: Branch coverage!
Keywords: code coverage testing
Platform: UNKNOWN
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 3
Classifier: Topic :: Software Development :: Quality Assurance
Classifier: Topic :: Software Development :: Testing
Classifier: Development Status :: 4 - Beta

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* http://jquery.com/
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* 
* Includes Sizzle.js 
* http://sizzlejs.com/
* 
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* 
* Date: Thu Oct 14 23:10:06 2010 -0400 
*/

Found in path(s):
* /opt/cola/permits/1154616852_1618867912.55/0/coverage-3.6b3-tar-gz/coverage-3.6b3/coverage/htmlfiles/jquery-1.4.3.min.js
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 * @author Laurence Wheway
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 *
 * @version 1.2.0
 */

Found in path(s):
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 * jQuery Hotkeys Plugin
 * Copyright 2010, John Resig
 * Dual licensed under the MIT or GPL Version 2 licenses.
 *
 * Based upon the plugin by Tzury Bar Yochay:
 * http://github.com/tzuryby/hotkeys
 *
 * Original idea by:
 */

Found in path(s):
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/**
 * QUnit - A JavaScript Unit Testing Framework
 *
 * http://docs.jquery.com/QUnit
 *
 * Copyright (c) 2011 John Resig, Jörn Zaefferer
 * Dual licensed under the MIT (MIT-LICENSE.txt)
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 */
Found in path(s):
* /opt/cola/permits/1154616852_1618867912.55/0/coverage-3-6b3-tar-gz/coverage-3.6b3/test/qunit/qunit.css
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/**
 * QUnit - A JavaScript Unit Testing Framework
 *
 * http://docs.jquery.com/QUnit
 *
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 */

/**
 * jsDump
 * Copyright (c) 2008 Ariel Flesler - aflesler(at)gmail(dot)com | http://flesler.blogspot.com
 * Licensed under BSD (http://www.opensource.org/licenses/bsd-license.php)
 * Date: 5/15/2008
 * @projectDescription Advanced and extensible data dumping for Javascript.
 * @version 1.0.0
 * @author Ariel Flesler
 * @link {http://flesler.blogspot.com/2008/05/jsdump-pretty-dump-of-any-javascript.html}
 */

/*
 * Javascript Diff Algorithm
 * By John Resig (http://ejohn.org/)
 * Modified by Chu Alan "sprite"
 *
 * Released under the MIT license.
 *
 * More Info:
 * http://ejohn.org/projects/javascript-diff-algorithm/
 *
 * Usage: QUnit.diff(expected, actual)
 *
 * QUnit.diff("the quick brown fox jumped over", "the quick fox jumps over") == "the quick <del>brown </del> fox <del>jumped </del><ins>jumps </ins> over"
 */

Found in path(s):
* /opt/cola/permits/1154616852_1618867912.55/0/coverage-3-6b3-tar-gz/coverage-3.6b3/test/qunit/qunit.js
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/*
 * jQuery Templates Plugin 1.0.0pre
 * http://github.com/jquery/jquery-tmpl
 * Requires jQuery 1.4.2
 */
1.269 google-api-go-client v0.20.0

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package api

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "regexp"
    "testing"
)

// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|The Go Authors)(\d+)*( All rights reserved.)*
(//|#) Use of this source code is governed by a BSD-style
(//|#) license that can be found in the LICENSE file.`)
const prefix = "// Copyright"

// A few files have to be skipped.
var skip = map[string]bool{
  "tools.go": true, // This file requires another comment above the license.
  "internal/third_party/uritemplates/uritemplates.go": true, // This file is licensed to an individual.
  "internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.
}

// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {
  err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
    if skip[path] {
      return nil
    }
    if err != nil {
      return err
    }
    if filepath.Ext(path) != ".go" && !bytes.HasPrefix(src, []byte(prefix)) {
      t.Errorf("%v: license header not at the top", path)
      return nil
    }
    return nil
  })
  if err != nil {
    t.Fatal(err)
  }
}

if filepath.Ext(path) != ".go" && filepath.Ext(path) != ".sh" {
  return nil
}

src, err := ioutil.ReadFile(path)
if err != nil {
  return nil
}

// Verify that the license is matched.
if !sentinel.Match(src) {
  t.Errorf("%v: license header not present", path)
  return nil
}

// Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
if filepath.Ext(path) == ".go" && !bytes.HasPrefix(src, []byte(prefix)) {
  t.Errorf("%v: license header not at the top", path)
  return nil
}
if err != nil {
  t.Fatal(err)
}
1.270 icu4j 62.1

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1.272 util-linux 2.23.2 61.el7_7.1

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*/

size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
---
#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System-------------------
Create 1st primary partition
ada64ace122978d00d1d01c0e5ee45d26 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
__ts_dev__1 2048 4095 1024 83 Linux-------------------
Create 2st primary partition
1bebfb7248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8df51a88a045db233418dd73fbe bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
<thead>
<tr>
<th>Device</th>
<th>Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td>__ts_dev__1</td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
<td></td>
</tr>
<tr>
<td>__ts_dev__2</td>
<td>4096</td>
<td>20479</td>
<td>8192</td>
<td>a5</td>
<td>FreeBSD</td>
<td></td>
</tr>
</tbody>
</table>

Create default BSD
2e1cee529cb59e9341afe0443f196a1 bsd.img

---layout-------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start  end  size  fstype  [fsize bsize  cpg]
c:   4096  20479  16384   unused   0   0

BSD disklabel command (m for help):
Command (m for help):

b5c121c2091b2ff26b880551feca7112 bsd.img

---layout-------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start  end  size  fstype  [fsize bsize  cpg]
a:   4096  6144  2049    4.2BSD   0   0   0
c:   4096  20479  16384   unused   0   0

d:    0  16064  16065   unused   0   0

BSD disklabel command (m for help):
Command (m for help):

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

BSD disklabel command (m for help):

0 unused 5 4.1BSD 9 4.4LFS d boot
1 swap 6 Eighth Edition a unknown e ADOS
2 Version 6 7 4.2BSD b HPFS f HFS
3 Version 7 8 MS-DOS c ISO-9660 10 AdvFS
4 System V

BSD disklabel command (m for help):

1.273 jersey-server 2.31
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1.275 perl-module-metadata 1.000033-395.el8

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1.282 jetty-servlets 9.4.33.v20201020

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

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

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

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

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Oracle OpenJDK

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

* java.sun.security.ssl

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

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OW2

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

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Apache

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

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

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The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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=head1 NAME

Time::HiRes - High resolution alarm, sleep, gettimeofday, interval timers

=head1 SYNOPSIS

use Time::HiRes qw( usleep ualarm gettimeofday tv_interval nanosleep
clock_gettime clock_getres clock_nanosleep clock
stat lstat utime);

usleep ($microseconds);
nanosleep ($nanoseconds);

ualarm ($microseconds);
ualarm ($microseconds, $interval_microseconds);

$t0 = [gettimeofday];
($seconds, $microseconds) = gettimeofday;

$elapsed = tv_interval ( $t0, [ $seconds, $microseconds ]); 
$elapsed = tv_interval ( $t0, [ gettimeofday ]); 
$elapsed = tv_interval ( $t0 );

use Time::HiRes qw ( time alarm sleep );

$now_fractions = time;
sleep ($floating_seconds);
alarm ($floating_seconds);
alarm ($floating_seconds, $floating_interval);

use Time::HiRes qw( setitimer getitimer );

setitimer ($which, $floating_seconds, $floating_interval );
getitimer ($which);

use Time::HiRes qw( clock_gettime clock_getres clock_nanosleep
ITIMER_REAL ITIMER_VIRTUAL ITIMER_PROF
ITIMER_REALPROF );

$realtime   = clock_gettime(CLOCK_REALTIME);
$resolution = clock_getres(CLOCK_REALTIME);
clock_nanosleep(CLOCK_REALTIME, 1.5e9);
clock_nanosleep(CLOCK_REALTIME, time()*1e9 + 10e9, TIMER_ABSTIME);

my $ticktock = clock();

use Time::HiRes qw( stat lstat );

my @stat = stat("file");
my @stat = stat(FH);
my @stat = lstat("file");

use Time::HiRes qw( utime );
utime $floating_seconds, $floating_seconds, file...;

=head1 DESCRIPTION

The C<Time::HiRes> module implements a Perl interface to the
C<usleep>, C<nanosleep>, C<ualarm>, C<gettimeofday>, and
C<setitimer>/C<getitimer> system calls, in other words, high
resolution time and timers. See the L<EXAMPLES> section below and the
test scripts for usage; see your system documentation for the
description of the underlying C<nanosleep> or C<usleep>, C<ualarm>,
C<gettimeofday>, and C<setitimer>/C<getitimer> calls.

If your system lacks C<gettimeofday()> or an emulation of it you don’t
get C<gettimeofday()> or the one-argument form of C<tv_interval>().
If your system lacks all of C<nanosleep>(), C<usleep>(),
C<select>(), and C<poll>, you don’t get C<Time::HiRes::usleep>(),
C<Time::HiRes::nanosleep>(), or C<Time::HiRes::sleep>().
If your system lacks both C<ualarm()> and C<setitimer()> you don’t get
C<Time::HiRes::ualarm()> or C<Time::HiRes::alarm>().

If you try to import an unimplemented function in the C<use> statement
it will fail at compile time.

If your subsecond sleeping is implemented with C<nanosleep()> instead
of C<usleep>(), you can mix subsecond sleeping with signals since
C<nanosleep()> does not use signals. This, however, is not portable,
and you should first check for the truth value of
C<&Time::HiRes::d_nanosleep> to see whether you have nanosleep, and
then carefully read your C<nanosleep()> C API documentation for any
peculiarities.

If you are using C<nanosleep> for something else than mixing sleeping
with signals, give some thought to whether Perl is the tool you should
be using for work requiring nanosecond accuracies.
Remember that unless you are working on a hard real-time system, any clocks and timers will be imprecise, especially so if you are working in a pre-emptive multiuser system. Understand the difference between wallclock time and process time (in UNIX-like systems the sum of user and system times). Any attempt to sleep for X seconds will most probably end up sleeping more than that, but don't be surprised if you end up sleeping slightly less.

The following functions can be imported from this module. No functions are exported by default.

=item gettimeofday ()

In array context returns a two-element array with the seconds and microseconds since the epoch. In scalar context returns floating seconds like C<Time::HiRes::time()> (see below).

=item usleep ( $useconds )

Sleeps for the number of microseconds (millionths of a second) specified. Returns the number of microseconds actually slept. Can sleep for more than one second, unlike the C<usleep> system call. Can also sleep for zero seconds, which often works like a thread yield. See also C<Time::HiRes::usleep()>, C<Time::HiRes::sleep()>, and C<Time::HiRes::clock_nanosleep()>.

Do not expect usleep() to be exact down to one microsecond.

=item nanosleep ( $nanoseconds )

Sleeps for the number of nanoseconds (1e9ths of a second) specified. Returns the number of nanoseconds actually slept (accurate only to microseconds, the nearest thousand of them). Can sleep for more than one second. Can also sleep for zero seconds, which often works like a thread yield. See also C<Time::HiRes::sleep()>, C<Time::HiRes::usleep()>, and C<Time::HiRes::clock_nanosleep()>.

Do not expect nanosleep() to be exact down to one nanosecond. Getting even accuracy of one thousand nanoseconds is good.

=item ualarm ( $useconds [ , $interval_useconds ] )

Issues a C<ualarm> call; the C<$interval_useconds> is optional and will be zero if unspecified, resulting in C<alarm>-like behaviour.

Returns the remaining time in the alarm in microseconds, or C<undef>
if an error occurred.

ualarm(0) will cancel an outstanding ualarm().

Note that the interaction between alarms and sleeps is unspecified.

=item tv_interval

tv_interval ( $ref_to_gettimeofday [, $ref_to_later_gettimeofday] )

Returns the floating seconds between the two times, which should have
been returned by C<gettimeofday()> . If the second argument is omitted,
then the current time is used.

=item time ()

Returns a floating seconds since the epoch. This function can be
imported, resulting in a nice drop-in replacement for the C<time>
provided with core Perl; see the L</EXAMPLES> below.

B<NOTE 1>: This higher resolution timer can return values either less
or more than the core C<time()> , depending on whether your platform
rounds the higher resolution timer values up, down, or to the nearest second
to get the core C<time()> , but naturally the difference should be never
more than half a second. See also L</clock_getres> , if available
in your system.

B<NOTE 2>: Since Sunday, September 9th, 2001 at 01:46:40 AM GMT, when
the C<time()> seconds since epoch rolled over to 1_000_000_000 , the
default floating point format of Perl and the seconds since epoch have
conspired to produce an apparent bug: if you print the value of
C<Time::HiRes::time()> you seem to be getting only five decimals, not
six as promised (microseconds). Not to worry, the microseconds are
there (assuming your platform supports such granularity in the first
place). What is going on is that the default floating point format of
Perl only outputs 15 digits. In this case that means ten digits
before the decimal separator and five after. To see the microseconds
you can use either C<printf>/C<sprintf> with C<"%.6f"> , or the
C<gettimeofday()> function in list context, which will give you the
seconds and microseconds as two separate values.

=item sleep ( $floating_seconds )

Sleeps for the specified amount of seconds. Returns the number of
seconds actually slept (a floating point value). This function can
be imported, resulting in a nice drop-in replacement for the C<sleep>
provided with perl, see the L</EXAMPLES> below.
Note that the interaction between alarms and sleeps is unspecified.

=item alarm ( $floating_seconds [, $interval_floating_seconds ] )

The C<SIGALRM> signal is sent after the specified number of seconds.
Implemented using C<setitimer()> if available, C<ualarm()> if not.
The C<$interval_floating_seconds> argument is optional and will be
zero if unspecified, resulting in C<alarm()>-like behaviour. This
function can be imported, resulting in a nice drop-in replacement for
the C<alarm> provided with perl, see the L</EXAMPLES> below.

Returns the remaining time in the alarm in seconds, or C<undef>
if an error occurred.

B<NOTE 1>: With some combinations of operating systems and Perl
releases C<SIGALRM> restarts C<select()>, instead of interrupting it.
This means that an C<alarm()> followed by a C<select()> may together
take the sum of the times specified for the C<alarm()> and the
C<select()> , not just the time of the C<alarm()>.

Note that the interaction between alarms and sleeps is unspecified.

=item setitimer ( $which, $floating_seconds [, $interval_floating_seconds ] )

Start up an interval timer: after a certain time, a signal ($which) arrives,
and more signals may keep arriving at certain intervals. To disable
an "itimer", use C<$floating_seconds> of zero. If the
C<$interval_floating_seconds> is set to zero (or unspecified), the
timer is disabled B<after> the next delivered signal.

Use of interval timers may interfere with C<alarm()>, C<sleep()>,
and C<usleep()>. In standard-speak the "interaction is unspecified",
which means that I<anything> may happen: it may work, it may not.

In scalar context, the remaining time in the timer is returned.

In list context, both the remaining time and the interval are returned.

There are usually three or four interval timers (signals) available: the
C<$which> can be C<ITIMER_REAL>, C<ITIMER_VIRTUAL>, C<ITIMER_PROF>, or
C<ITIMER_REALPROF>. Note that which ones are available depends: true
UNIX platforms usually have the first three, but only Solaris seems to
have C<ITIMER_REALPROF> (which is used to profile multithreaded programs).
Win32 unfortunately does not have interval timers.

C<ITIMER_REAL> results in C<alarm()>-like behaviour. Time is counted in
I<real time>; that is, wallclock time. C<SIGALRM> is delivered when
the timer expires.
C<ITIMER_VIRTUAL> counts time in (process) I<virtual time>; that is, only when the process is running. In multiprocessor/user/CPU systems this may be more or less than real or wallclock time. (This time is also known as the I<user time>.) C<SIGVTALRM> is delivered when the timer expires.

C<ITIMER_PROF> counts time when either the process virtual time or when the operating system is running on behalf of the process (such as I/O). (This time is also known as the I<system time>.) (The sum of user time and system time is known as the I<CPU time>.) C<SIGPROF> is delivered when the timer expires. C<SIGPROF> can interrupt system calls.

The semantics of interval timers for multithreaded programs are system-specific, and some systems may support additional interval timers. For example, it is unspecified which thread gets the signals. See your C<setitimer()> documentation.

=item getitimer ( $which )

Return the remaining time in the interval timer specified by C<$which>.

In scalar context, the remaining time is returned.

In list context, both the remaining time and the interval are returned.
The interval is always what you put in using C<setitimer()>.

=item clock_gettime ( $which )

Return as seconds the current value of the POSIX high resolution timer specified by C<$which>. All implementations that support POSIX high resolution timers are supposed to support at least the C<$which> value of C<CLOCK_REALTIME>, which is supposed to return results close to the results of C<gettimeofday>, or the number of seconds since 00:00:00:00 January 1, 1970 Greenwich Mean Time (GMT). Do not assume that CLOCK_REALTIME is zero, it might be one, or something else. Another potentially useful (but not available everywhere) value is C<CLOCK_MONOTONIC>, which guarantees a monotonically increasing time value (unlike time() or gettimeofday(), which can be adjusted). See your system documentation for other possibly supported values.

=item clock_getres ( $which )

Return as seconds the resolution of the POSIX high resolution timer specified by C<$which>. All implementations that support POSIX high resolution timers are supposed to support at least the C<$which> value of C<CLOCK_REALTIME>, see L</clock_gettime>.
B<NOTE>: the resolution returned may be highly optimistic. Even if the resolution is high (a small number), all it means is that you'll be able to specify the arguments to clock_gettime() and clock_nanosleep() with that resolution. The system might not actually be able to measure events at that resolution, and the various overheads and the overall system load are certain to affect any timings.

=item clock_nanosleep ( $which, $nanoseconds, $flags = 0)

Sleeps for the number of nanoseconds (1e9ths of a second) specified. Returns the number of nanoseconds actually slept. The $which is the "clock id", as with clock_gettime() and clock_getres(). The flags default to zero but C<TIMER_ABSTIME> can specified (must be exported explicitly) which means that C<$nanoseconds> is not a time interval (as is the default) but instead an absolute time. Can sleep for more than one second. Can also sleep for zero seconds, which often works like a I<thread yield>. See also C<Time::HiRes::sleep()>, C<Time::HiRes::usleep()>, and C<Time::HiRes::nanosleep()>.

Do not expect clock_nanosleep() to be exact down to one nanosecond. Getting even accuracy of one thousand nanoseconds is good.

=item clock()

Return as seconds the I<process time> (user + system time) spent by the process since the first call to clock() (the definition is B<not> "since the start of the process", though if you are lucky these times may be quite close to each other, depending on the system). What this means is that you probably need to store the result of your first call to clock(), and subtract that value from the following results of clock().

The time returned also includes the process times of the terminated child processes for which wait() has been executed. This value is somewhat like the second value returned by the times() of core Perl, but not necessarily identical. Note that due to backward compatibility limitations the returned value may wrap around at about 2147 seconds or at about 36 minutes.

=item stat

=item stat FH

=item stat EXPR

=item lstat

=item lstat FH
As L<perlfunc/stat> or L<perlfunc/lstat>
but with the access/modify/change file timestamps
in subsecond resolution, if the operating system and the filesystem
both support such timestamps. To override the standard stat():

    use Time::HiRes qw(stat);

Test for the value of &Time::HiRes::d_hires_stat to find out whether
the operating system supports subsecond file timestamps: a value
larger than zero means yes. There are unfortunately no easy
ways to find out whether the filesystem supports such timestamps.
UNIX filesystems often do; NTFS does; FAT doesn't (FAT timestamp
granularity is B<two> seconds).

A zero return value of &Time::HiRes::d_hires_stat means that
Time::HiRes::stat is a no-op passthrough for CORE::stat()
(and likewise for lstat),
and therefore the timestamps will stay integers. The same
thing will happen if the filesystem does not do subsecond timestamps,
even if the &Time::HiRes::d_hires_stat is non-zero.

In any case do not expect nanosecond resolution, or even a microsecond
resolution. Also note that the modify/access timestamps might have
different resolutions, and that they need not be synchronized, e.g.
if the operations are

    write
    stat # t1
    read
    stat # t2

the access time stamp from t2 need not be greater-than the modify
time stamp from t1: it may be equal or I<less>.

As L<perlfunc/utime>
but with the ability to set the access/modify file timestamps
in subsecond resolution, if the operating system and the filesystem,
and the mount options of the filesystem, all support such timestamps.

To override the standard utime():

    use Time::HiRes qw(utime);

Test for the value of &Time::HiRes::d_hires_utime to find out whether
the operating system supports setting subsecond file timestamps.

As with CORE::utime(), passing undef as both the atime and mtime will call the syscall with a NULL argument.

The actual achievable subsecond resolution depends on the combination of the operating system and the filesystem.

Modifying the timestamps may not be possible at all: for example, the C<noatime> filesystem mount option may prohibit you from changing the access time timestamp.

Returns the number of files successfully changed.

=back

=head1 EXAMPLES

use Time::HiRes qw(usleep ualarm gettimeofday tv_interval);

$microseconds = 750_000;
usleep($microseconds);

# signal alarm in 2.5s & every .1s thereafter
ualarm(2_500_000, 100_000);
# cancel that ualarm
ualarm(0);

# get seconds and microseconds since the epoch
($s, $usec) = gettimeofday();

# measure elapsed time
# (could also do by subtracting 2 gettimeofday return values)
$t0 = [gettimeofday];
# do bunch of stuff here
$t1 = [gettimeofday];
# do more stuff here
$t0_t1 = tv_interval $t0, $t1;

$elapsed = tv_interval ($t0, [gettimeofday]);
$elapsed = tv_interval ($t0);# equivalent code

#
# replacements for time, alarm and sleep that know about
# floating seconds
#
use Time::HiRes;
$now_fractions = Time::HiRes::time;
use Time::HiRes qw ( time alarm sleep );
$now_fractions = time;
sleep (2.5);
alarm (10.6666666);

# Arm an interval timer to go off first at 10 seconds and
# after that every 2.5 seconds, in process virtual time
use Time::HiRes qw ( setitimer ITIMER_VIRTUAL time );

$SIG{VTALRM} = sub { print time, "\n" };  
setitimer(ITIMER_VIRTUAL, 10, 2.5);

use Time::HiRes qw( clock_gettime clock_getres CLOCK_REALTIME );
# Read the POSIX high resolution timer.
my $high = clock_gettime(CLOCK_REALTIME);
# But how accurate we can be, really?
my $reso = clock_getres(CLOCK_REALTIME);

use Time::HiRes qw( clock_nanosleep TIMER_ABSTIME );
clock_nanosleep(CLOCK_REALTIME, 1e6);
  clock_nanosleep(CLOCK_REALTIME, 2e9, TIMER_ABSTIME);

use Time::HiRes qw( clock );
my $clock0 = clock();
... # Do something.
my $clock1 = clock();
my $clockd = $clock1 - $clock0;

use Time::HiRes qw( stat );
my ($atime, $mtime, $ctime) = (stat("istics"))[8, 9, 10];

=head1 C API

In addition to the perl API described above, a C API is available for extension writers. The following C functions are available in the modglobal hash:

<table>
<thead>
<tr>
<th>name</th>
<th>C prototype</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time::NVtime</td>
<td>NV (*)()</td>
</tr>
<tr>
<td>Time::U2time</td>
<td>void (*)(pTHX_UV ret[2])</td>
</tr>
</tbody>
</table>

Both functions return equivalent information (like C<gettimeofday>) but with different representations. The names C<NVtime> and C<U2time>
were selected mainly because they are operating system independent. (C<tt>gettimeofday</tt> is Unix-centric, though some platforms like Win32 and VMS have emulations for it.)

Here is an example of using C<tt>NVtime</tt> from C:

```c
NV (*myNVtime)(); /* Returns -1 on failure. */
SV **svp = hv_fetchs(PL_modglobal, "Time::NVtime", 0);
if (!svp)     croak("Time::HiRes is required");
if (!SvIOK(*svp)) croak("Time::NVtime isn't a function pointer");
myNVtime = INT2PTR(NV(*)(), SvIV(*svp));
printf("The current time is: %" NVff ", " (*myNVtime)());
```

=head1 DIAGNOSTICS

=head2 useconds or interval more than ...

In ualarm() you tried to use number of microseconds or interval (also in microseconds) more than 1_000_000 and setitimer() is not available in your system to emulate that case.

=head2 negative time not invented yet

You tried to use a negative time argument.

=head2 internal error: useconds < 0 (unsigned ... signed ...)

Something went horribly wrong-- the number of microseconds that cannot become negative just became negative. Maybe your compiler is broken?

=head2 useconds or uinterval equal to or more than 1000000

In some platforms it is not possible to get an alarm with subsecond resolution and later than one second.

=head2 unimplemented in this platform

Some calls simply aren't available, real or emulated, on every platform.

=head1 CAVEATS

Notice that the core C<tt>time()</tt> maybe rounding rather than truncating. What this means is that the core C<tt>time()</tt> may be reporting the time as one second later than C<tt>gettimeofday()</tt> and C<tt>Time::HiRes::time()</tt>. Adjusting the system clock (either manually or by services like ntp) may cause problems, especially for long running programs that assume a monotonously increasing time (note that all platforms do not adjust
time as gracefully as UNIX ntp does). For example in Win32 (and derived platforms like Cygwin and MinGW) the Time::HiRes::time() may temporarily drift off from the system clock (and the original time()) by up to 0.5 seconds. Time::HiRes will notice this eventually and recalibrate. Note that since Time::HiRes 1.77 the clock_gettime(CLOCK_MONOTONIC) might help in this (in case your system supports CLOCK_MONOTONIC).

Some systems have APIs but not implementations: for example QNX and Haiku have the interval timer APIs but not the functionality.

In pre-Sierra macOS (pre-10.12, OS X) clock_getres(), clock_gettime() and clock_nanosleep() are emulated using the Mach timers; as a side effect of being emulated the CLOCK_REALTIME and CLOCK_MONOTONIC are the same timer.

gnu/kfreebsd seems to have non-functional futimens() and utimensat() (at least as of 10.1): therefore the hires utime() does not work.

=head1 SEE ALSO

Perl modules L<BSD::Resource>, L<Time::TAI64>.

Your system documentation for C<clock>, C<clock_gettime>, C<clock_getres>, C<clock_nanosleep>, C<clock_settime>, C<getitimer>, C<gettimeofday>, C<setitimer>, C<sleep>, C<stat>, C<ualarm>.

=head1 AUTHORS

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=head1 COPYRIGHT AND LICENSE

Copyright (c) 1996-2002 Douglas E. Wegscheid. All rights reserved.


Copyright (C) 2011, 2012, 2013 Andrew Main (Zefram) <zefram@fysh.org>

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

=cut

Found in path(s):
/*
 * Copyright (c) 1996-2002 Douglas E. Wegscheid. All rights reserved.
 */

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 * it under the same terms as Perl itself.
 */

License: GPL+ or Artistic

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

ppport.h -- Perl/Pollution/Portability Version 3.36

Automatically created by Devel::PPPort running under perl 5.026001.

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 3.36

=head1 SYNOPSIS

perl ppport.h [options] [source files]

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

--help        show short help
--version     show version
--patch=file   write one patch file with changes
--copy=suffix  write changed copies with suffix
--diff=program use diff program and options
--compat-version=version  provide compatibility with Perl version
--cplusplus    accept C++ comments
--quiet        don't output anything except fatal errors
--nodiag       don't show diagnostics
--nohints      don't show hints
--nochanges    don't suggest changes
--nofilter     don't filter input files
--strip        strip all script and doc functionality from ppport.h
--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

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

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>. 
=head2 --patch=I<file>

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

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

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

=head2 --diff=I<program>

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

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

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

=head2 --cplusplus

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

=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 \<ppport.h\>. This reduces the size of \<ppport.h\> dramatically and may be useful if you want to include \<ppport.h\> in smaller modules without increasing their distribution size too much.

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

Lists the API elements for which compatibility is provided by \<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 \<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_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>
<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_radixGLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_octGLOBAL</td>
</tr>
<tr>
<td>gv_fetchpvn_flags()</td>
<td>NEED_gv_fetchpvn_flags</td>
<td>NEED_gv_fetchpvn_flagsGLOBAL</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>
<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_2pv_flags()</td>
<td>NEED_sv_2pv_flags</td>
<td>NEED_sv_2pv_flags_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_flagsGLOBAL</td>
</tr>
<tr>
<td>sv_setp vf_mg()</td>
<td>NEED_sv_setpvf_mg</td>
<td>NEED_sv_setpvf_mg_GLOBAL</td>
</tr>
<tr>
<td>sv_setp vf_mg_nocontext()</td>
<td>NEED_sv_setpvf_mg_nocontext</td>
<td>NEED_sv_setpvf_mg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>sv_unmagicext()</td>
<td>NEED_sv_unmagicext</td>
<td>NEED_sv_unmagicext_GLOBAL</td>
</tr>
<tr>
<td>vload_module()</td>
<td>NEED_vload_module</td>
<td>NEED_vload_module_GLOBAL</td>
</tr>
<tr>
<td>vnewSVpvf()</td>
<td>NEED_vnewSVpvf</td>
<td>NEED_vnewSVpvf GLOBAL</td>
</tr>
<tr>
<td>warned()</td>
<td>NEED_warned</td>
<td>NEED_warned_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_>.

=head1 EXAMPLES

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

perl ppport.h

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

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

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

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

perl ppport.h --nochanges

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

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

This would output context diffs with 10 lines of context.

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

perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function, use:
perl ppport.h --api-info=newSVpvn

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

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

to display portability information for all C<_nomg> functions or

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

to display information for all known API elements.

=head1 BUGS

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

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report here: L<https://github.com/mhx/Devel-PPPort/issues/>

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

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

=item 4.

A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.
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 = 3.36;

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 = '[ ]'; # horizontal whitespace

my $ccs = quotemeta $ccs;

# Never use C comments in this file!
my $cxs = '//';
my $cxe = '*//';
my $rccs = quotemeta $ccs;
my $rce = quotemeta $ce;

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

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

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

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

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

my %API = map { /^\w+\|[^|]*\|[^|]*\|\w*$/ ? ( $1 => {
        ($2                  ? ( base     => $2 ) : ()),
        ($3                  ? ( todo     => $3 ) : ()),
        (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
        (index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
        (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ()),
    } ) : die "invalid spec: $_" } qw(ASCII_TO_NEED||5.007001|nAvFILLp|5.004050||p)


MY_CTX_INIT|5.007003|p
MY_CTX|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
NVf|5.006001|p
NVf|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|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||
PAD_SET_CUR_NOSAVE||
PAD_SET_CUR||
PAD_SV||
PERLIO_FUNCS_CAST|5.009003|p
PERLIO_FUNCS_DECL|5.009003|p
PERL_ABS|5.008001||p
PERL_BCDVERSION|5.024000||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_collexfrm|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|5.024000||p
PERL_MAGIC_isaelem|5.007002||p
PERL_MAGIC_isa|5.007002||p
PERL_MAGIC_mutex|5.024000||p
PERL_MAGIC_nkeys|5.007002||p
PERL_MAGIC_overload_elem|5.024000||p
PERL_MAGIC_overload|5.024000||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_tiedscalar|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
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
POPpbytex|5.007001|n
POPx|5.005030|n
POPp|n
POPs|n
POPu|5.006000|n
POPul|5.004000|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|5.024000|
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||
PadnameIsSTATE||
PadnameLEN|5.024000|
PadnameOURSTASH||
PadnameOUTER||
PadnamePV|5.024000|
PadnameREFCNT_dec|5.024000|
PadnameREFCNT|5.024000|

Open Source Used In APIC-SE-BATMAN 2.1.1d 3998
SvPV_flags_const|5.009003||p
SvPV_flags_mutable|5.009003||p
SvPV_flags|5.007002||p
SvPV_force_flags_mutable|5.009003||p
SvPV_force_flags_nolen|5.009003||p
SvPV_force_flags|5.007002||p
SvPV_force_mutable|5.009003||p
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put_charclass_bitmap_innards_common
put_charclass_bitmap_innards_invlist
put_charclass_bitmap_innards
put_code_point
put_range
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pv_escape[5.009004][p
pv_pretty[5.009004][p
pv_uni_display[5.007003]
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qsortsvu
quadmath_format_needed
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re_compile[5.009005]
re_croak2
re_dup_guts
re_exec_indentf[v
re_indentf[v
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safesyscalloc
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same_dirent
save_116
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save_18
save_adelete
save_aelem
save_aelem_flags
save_alloc
save_aptr
save_ary
save_bool
save_clearsv
save_delete
saveDestructor_x
saveDestructor
save_freeop
save_freepv
save_freesv
save_generic_pvref
save_generic_svref
save_gp
save_hash
save_hdelete
save_helem
save_helem_flags
save_heptr
save_int
save_item
save_iv
save_lines
save_list
save_long
save_magic_flags
save_mortalizesv
save_nogv
save_op
save_pads_and_mortalize
save_pptr
save_pushi32ptr
save_pushptr
save_pushptri32ptr
save_pushptrptr
set_caret_X
set_context[5.006000]
set_numeric_local[5.006000]
set_numeric_radix[5.006000]
set_numeric_standard[5.006000]
set_padlist[n]
setdefout[]
share_hek_flags[]
share_hek[5.004000]
should_warn_nl[n]
si_dup[]
sighandler[n]
simplify_sort[]
skip_to_be_ignored_text[]
skipspace_flags[]
softref2xv[]
sortcv_stacked[]
sortcv_xsub[]
sortcv[]
sortsv_flags[5.009003]
sortsv[5.007003]
space_join_names_mortal[]
ss_dup[]
ssc_add_range[]
ssc_and[]
ssc_anything[]
ssc_clear_locale[n]
ssc_cp_and[]
ssc_finalize[]
ssc_init[]
ssc_intersection[]
ssc_is_anything[n]
ssc_is_cp_posixl_init[]
ssc_or[]
ssc_union[]
stack_grow[]
start_glob[]
start_subparse[5.004000]
stdize_locale[]
strEQ[]
strGE[]
strGT[]
strLE[]
strLT[]
strNE[]
str_to_version[5.006000]
strip_return[]
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sv_catpv
sv_catsv_flags[5.007002]
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v_catsv_nomg[5.007002]
v_catsv
sv_chop
sv_clean_all
sv_clean_objs
sv_clear
sv_cmp_flags[5.013006]
v CMP.locale_flags[5.013006]
v CMP.locale[5.004000]
v CMP
sv_collxfrm_flags[5.013006]
v_collxfrm
sv_copypv_flags[5.017002]
v_copypv_nomg[5.017002]
v_copypv
sv_dec_nomg[5.013002]
v_dec
sv_del_backref
sv Derived.from_pvn[5.015004]
v Derived.from_pv[5.015004]
v Derived.from_sv[5.015004]
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v_destroyable[5.010000]
v display
sv Does_pvn[5.015004]
v Does_pv[5.015004]
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sv_dup_common
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sv_dup_inc
sv_dup
sv_eq_flags[5.013006]
v_eq
sv_exp_grow
sv_force_normal_flags[5.007001]
v_force_normal[5.006000]
v_free2
sv_free_arenas
sv_free
sv_get_backrefs[5.021008]
v gets[5.003070]
v_grow
sv_i_ncmp
sv_ref[5.015004]
sv_replace||
sv_report_used||
sv_resetpvn||
sv_reset||
sv_rvweaken[5.006000]
sv_sethek||
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||p
sv_setpvf_mg[5.006000]|5.004000|pv
sv_setpvf_nocontext||yn
sv_setpvf[5.004000]|v
sv_setpviv_mg[5.008001]
sv_setpviv[5.008001]
sv_setpvpm[5.004050]|p
sv_setpvs_mg[5.013006]
sv_setpvs[5.009004]|p
sv_setpv||
sv_setref_iv||
sv_setref_nv||
sv_setref_pvn||
sv_setref_pvs[5.024000]
sv_setref_pv||
sv_setref_uv[5.007001]
sv_setsv_cow||
sv_setsv_flags[5.007002]
sv_setsv_mg[5.004050]|p
sv_setsv_nomg[5.007002]|p
sv_setsv||
sv_setuv_mg[5.004050]|p
sv_setuv[5.004000]|p
sv_tainted[5.004000]
sv_tainted[5.004000]
sv_true[5.005000]
sv_unglob||
sv_uni_display[5.007003]
sv_unmagicext[5.013008]|p
sv_unmagic||
sv_unref_flags[5.007001]
sv_unref||
sv_untaint[5.004000]
sv_upgrade||
sv_usepvn_flags[5.009004]
xs_version_bootcheck|||
yyerror_pvn|||
yyerror_pv|||
yyerror|||
yylex|||
yyparse|||
yyunlex|||
yywarn|||
);
if (exists $opt{'list-unsupported'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $API{$f}{todo};
print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
}
exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$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]]

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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*\$define\(w+\(?:\[(^)]+)\)?(\?\$)\$*\$};

if ($function) {
  if (/$$/) {
    if (exists $API{$function->[0]})) {
      my @n = find_api($function->[1]);
      push @{$depends{$function->[0]}}, @n if @n
    }
    undef $function;
  }
  else {
    $function->[1] .= $_;
  }
}

$function = [$1, ""] if m{^DPPP\(my_\((w+)\)\)\$};

$replace    = $1 if m{^\s*\$rccs\s+Replace:\s+(d+)\s+$rcce\s*\$};

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

$replace{$2} = $1 if m{^\s*\$define\(w+\)\(\?\)\)?s+\(w+\)+\)\s+\$rcce\s*\$};

$replace{$1} = $2 if m{^\s*\$rccs\s+Replace \(w+\) with \(w+)\s+\$rcce\s*\$};

if (m{^\s*\$rccs\s+\(w+\(\?s+\(w+\)+\)\s+\depends\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\(\$\(w+\)\(\?\)\)?\$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\nWARNINGS: \n$warnings{$f}" if exists $warnings{$f};
            $info++;
        }
        print "\n\nWARNING: \n$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'}'.\n";
print "\n";
exit 0;
}

if (exists $opt{'list-provided'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        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;
}

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die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;
my $func;
for $func (keys %API) {
my $match = $func;
$match .= "|$revreplace{$func}" if exists $revreplace{$func};
if ($c =~ /\b(?:Perl_)?($match)\b/) {
$file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
$file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
if (exists $API{$func}{provided}) {
$file{uses_provided}{$func}++;
if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {

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$file{uses}{$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}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';

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for (@{$global{needs}[$need]}) { 
    $files{$_}[$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{(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/$func/$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"
            
    $warnings++;
    }
}

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

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

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

for $func (sort keys %{$file{needs}}) {
  my $type = $file{needs}[$func];
  next if $type eq 'extern';
  my $suffix = $type eq 'global' ? '_GLOBAL' : '';
  unless (exists $file{“needed_$type”}[$func]) {
    if ($type eq 'global') {
      diag("Files [@ {$global{needs}[$func]}] need $func, adding global request");
    } else {
      diag("File needs $func, adding static request");
    }
    $pp .= "#define NEED_$func$suffix\n";
  }
}

if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
  $pp = "";
  $file{changes}++;
}

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

if ($pp) {
  $file{changes} += ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+.*?)/$1$pp/ms)
    || ($c =~ s/^(?=$HS*#$HS*include.*\Q$ppport\E.*?$LF//m)
    || ($c =~ s/^(?=$HS*#$HS*include.*XSUB.*\s*?)^/$1$pp/m)
    || ($c =~ s/^[^/$pp/);
}
}

else {
  if ($file{has_inc_ppport}) {
    diag("No need to include ‘$ppport’");
    $file{changes} += ($c =~ s/^(?=$HS*#$HS*include.*\Q$ppport\E.*?SLF//m);
  }
}

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

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} 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 $diff;
        }
    }
    else {
        error("Cannot open '$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' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;

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*=\w+/ms;
$copy =~ s/^(?=\S+)/    /gms;
$self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
$self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if (!@ARGV && $ARGV[0] eq '--unstrip') {
    eval { require Devel::PPPort };
    \!@ and die "Cannot require Devel::PPPort, please install.\n"
if (eval $Devel::PPPort::VERSION < $VERSION) {
    die "$0 was originally generated with Devel::PPPort $VERSION.\n"
    . "Your Devel::PPPort is only version $Devel::PPPort::VERSION.\n"
    . "Please install a newer version, or --unstrip will not work.\n"
}
Devel::PPPort::WriteFile($0);
exit 0;
}
print <<END;
Sorry, but this is a stripped version of $0.

To be able to use its original script and doc functionality, please try to regenerate this file using:
END

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

__DATA__
*/

Found in path(s):

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

Time::HiRes module: High resolution time, sleep, and alarm.

Implement usleep, ualarm, and gettimeofday for Perl, as well as wrappers to implement time, sleep, and alarm that know about non-integral seconds.

Note: the tests of this module are by definition time sensitive: under heavy loads the tests may fail. Reasonable relaxed criteria are being used for the tests but sometimes you may still see transient failures. Rerun the tests (make test) a couple of times, preferably with less load on the testing machine.

Also, older versions of Perl do not support '-nolinenumbers' on the XSUBPP command, however, 5.004_03 requires it (on my box, anyway) since the #line generating code in XSUBPP appears to have problems with #ifdef'd .xs code. If xsubpp complains about usage when you do a make, look at the top of the Makefile.PL and comment out the "$XSOPT=" line. Or upgrade to a newer version of Perl.
POD documentation is embedded.


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---
abstract: 'High resolution alarm, sleep, gettimeofday, interval timers'
author:
- Jarkko Hietaniemi <jhi@iki.fi>
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: Time-HiRes
no_index:
directory:
  - t
  - inc
requires:
  Carp: '0'
  Config: '0'
  Exporter: '0'
  ExtUtils::MakeMaker: '0'
  Test::More: '0'
  XSLoader: '0'
  perl: '5.006'
  strict: '0'
  version: '1.9758'
  x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
1.286 yelp 3.14.2 1.el7

1.286.1 Available under license:

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package cloud

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "strings"
    "testing"
)
var sentinels = []string{
  "Copyright",
  "Google",
  `Licensed under the Apache License, Version 2.0 (the "License");`,
}

func TestLicense(t *testing.T) {
  t.Parallel()
  skip := map[string]bool{
    // Automatically generated.
    "bigtable/cmd/cbt/cbt/doc.go": true,
  }
  // BSD license, which is compatible, is embedded in the file.
  "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go": true,
  "third_party/pkgsite/print_type.go": true,
  "third_party/pkgsite/synopsis.go": true,
}
err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
  if err != nil {
    return err
  }
  if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
    return nil
  }
  if skip[path] {
    return nil
  }
  src, err := ioutil.ReadFile(path)
  if err != nil {
    return nil
  }
  src = src[:300] // Ensure all of the sentinel values are at the top of the file.

  // Find license
  for _, sentinel := range sentinels {
    if !bytes.Contains(src, []byte(sentinel)) {
      t.Errorf("%v: license header not present. want %q", path, sentinel)
      return nil
    }
  }

  // Ensure that there is a license header.
  // .pb.go files are generated from the proto files.
  // .proto files must have license headers.
  if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
    return nil
  }
  if strings.HasSuffix(path, ".pb.go") {
    // .pb.go files are generated from the proto files.
    // .proto files must have license headers.
    return nil
  }
  if skip[path] {
    return nil
  }
  src, err := ioutil.ReadFile(path)
  if err != nil {
    return nil
  }
  src = src[:300] // Ensure all of the sentinel values are at the top of the file.

  // Find license
  for _, sentinel := range sentinels {
    if !bytes.Contains(src, []byte(sentinel)) {
      t.Errorf("%v: license header not present. want %q", path, sentinel)
      return nil
    }
  }
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1.292 perl 1.26-416.el8
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

---------------------------------------------------------------------
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the
  Module-Build mailing list at <module-build@perl.org>,"
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
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  version: 3

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

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# 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.
use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;
my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = "";
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*\b(\d{4,})/s
    or die "Year not found in README copyright message $copyright_msg";

    $year;
}
sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b\d\{4\}\b/i
    or die "Copyright statement not found in perl -v output '$output'";

    $year;
}

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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
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make test
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author:
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  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.66, CPAN::Meta::Converter version 2.133380'
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  - t
  - inc
requires:
  XSLoader: 0
  perl: 5.004
resources:
  repository: https://github.com/gisle/mime-base64
version: 3.15

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=head1 NAME

MIME::Base64 - Encoding and decoding of base64 strings

=head1 SYNOPSIS

use MIME::Base64;

$encoded = encode_base64('Aladdin:open sesame');
$decoded = decode_base64($encoded);

=head1 DESCRIPTION

This module provides functions to encode and decode strings into and from the base64 encoding specified in RFC 2045 - I<MIME (Multipurpose Internet Mail Extensions)>. The base64 encoding is designed to represent arbitrary sequences of octets in a form that need not be humanly readable. A 65-character subset ([A-Za-z0-9+/=]) of US-ASCII is used, enabling 6 bits to be represented per printable character.

The following primary functions are provided:

=over 4

=item encode_base64( $bytes )

=item 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 $length=decode_base64($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.

=back
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:

```bash
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:

```bash
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):
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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

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1.302 docker-libnetwork v0.8.0-dev.2.0.20190925143933-c8a5fca4a652
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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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@(#) SRCSfile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.307 procps 3.3.15-2
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the
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Library will still fall under Section 6.)

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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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  */
```

```/**

  * Constructs a new [ @link Textifier]. <i>Subclasses must not use this
  * constructor</i>. Instead, they must use the [ @link #Textifier(int)]
  * version.
  *
  * @throws IllegalStateException
  *         If a subclass calls this constructor.
  */
```

Found in path(s):
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* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/LdcInsnNode.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/ParameterNode.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/InnerClassNode.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/commons/InstructionAdapter.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/FrameNode.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/OpCodes.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/Context.java
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* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5.jar/org/objectweb/asm/tree/analysis/Analyzer.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5.jar/org/objectweb/asm/optimizer/FieldConstantsCollector.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5.jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java
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* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5.jar/org/objectweb/asm/Label.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5.jar/org/objectweb/asm/tree/MethodInsnNode.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5.jar/org/objectweb/asm/tree/IincInsnNode.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5.jar/jar.org/objectweb/asm/ByteVector.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5.jar/jar.org/objectweb/asm/Attribute.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5.jar/jar.org/objectweb/asm/commons/StaticInitMerger.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5.jar/jar.org/objectweb/asm/util/CheckMethodAdapter.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5.jar/jar.org/objectweb/asm/tree/MultiANewArrayInsnNode.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5.jar/jar.org/objectweb/asm/tree/TypeAnnotationNode.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5.jar/jar.org/objectweb/asm/commons/TryCatchBlockSorter.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5.jar/jar.org/objectweb/asm/util/CheckClassAdapter.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5.jar/jar.org/objectweb/asm/tree/analysis/SmallSet.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5.jar/jar.org/objectweb/asm/optimizer/MethodConstantsCollector.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5.jar/jar.org/objectweb/asm/tree/Frame.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5.jar/jar.org/objectweb/asm/tree/InsnNode.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5.jar/jar.org/objectweb/asm/tree/IntInsnNode.java
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/**
 * Constructs a new {@link ClassNode}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the {@link #ClassNode(int)}
 * version.
 *
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
 */

Found in path(s):
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/**
 * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
 * version.
 *
 * @param typeRef
 * a reference to the annotated type. See {@link TypeReference}.
 *
 * @param typePath
 * the path to the annotated type argument, wildcard bound, array
 * element type, or static inner type within 'typeRef'. May be
 * <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 *
 * @param start
 * the fist instructions corresponding to the continuous ranges
 * that make the scope of this local variable (inclusive).
 *
 * @param end
 * the last instructions corresponding to the continuous ranges
 * that make the scope of this local variable (exclusive). This
 * array must have the same size as the 'start' array.
 *
 * @param index
 * the local variable's index in each range. This array must have
 * the same size as the 'start' array.
 *
 * @param desc
 * the class descriptor of the annotation class.
 */

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

Found in path(s):
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-
  jar/org/objectweb/asm/commons/AnalyzerAdapter.java
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/**
 * Creates a new JSRInliner. <i>Subclasses must not use this constructor</i>. Instead, they must use the
 * [ @link JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[]) ]
 * version.
 *
 * @param mv
 *            the <code>MethodVisitor</code> to send the resulting inlined
 *            method code to (use <code>null</code> for none).
 * @param access
 *            the method's access flags (see [ @link Opcodes ]). This
 *            parameter also indicates if the method is synthetic and/or
 *            deprecated.
 * @param name
 *            the method's name.
 * @param desc
 *            the method's descriptor (see [ @link Type ]).
 * @param signature
 *            the method's signature. May be <tt>null</tt>.
 * @param exceptions
 *            the internal names of the method's exception classes (see
 *            [ @link Type#getName() getInternalName() ]). May be
 *            <tt>null</tt>.
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
 */

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* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-
  jar/org/objectweb/asm/optimizer/shrink-annotations.properties
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-
  jar/org/objectweb/asm/optimizer/shrink-frames.properties
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-
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/**
 * Creates a new [@link GeneratorAdapter]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [@link #GeneratorAdapter(int, MethodVisitor, int, String, String)]
 * version.
 *
 * @param mv
 *      the method visitor to which this adapter delegates calls.
 * @param access
 *      the method's access flags (see [@link Opcodes]).
 * @param name
 *      the method's name.
 */
```java
* @param desc
*     the method's descriptor (see [@link Type Type]).
* @throws IllegalStateException
*     If a subclass calls this constructor.
*/

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  jar/org/objectweb/asm/xml/SAXClassAdapter.java
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1.312 snowball-stemmer 1.2.1

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Snowball stemming library collection for Python
===============================================

This document pertains to the Python version of the stemmer library distribution, available for download from:

* https://github.com/shibukawa/snowball/

This repository includes Python source code generator

* https://github.com/shibukawa/snowball_python/

This repository includes generated Python source codes

Original program is maintained at following place:

* http://snowball.tartarus.org/

Original Snowball product created by Dr Martin Porter and Richard Boulton (Java porting). Original Snowball and my products are released under BSD license.

How to use library
------------------

The `snowballstemmer` module has two functions.
The `snowballstemmer.algorithms` function returns a list of available algorithm name's string.

The `snowballstemmer.stemmer` function accepts algorithm name and returns `Stemmer` objects.

`Stemmer` objects have `Stemmer.stemWord(word)` method and `Stemmer.stemWords(word[])` method.

.. code-block:: python

    import snowballstemmer
    stemmer = snowballstemmer.stemmer('english');
    print(stemmer.stemWords("We are the world".split()));

`Stemmer` objects have `Stemmer.maxCacheSize` property. They cache result within the value. Default is `10000`.

Accelerates Stemming
---------------------

if **PyStemmer** is installed, `snowballstemmer.stemmer` returns `PyStemmer`'s `Stemmer` objects. This `Stemmer` object has same methods (`Stemmer.stemWord()`, `Stemmer.stemWords()`).

**PyStemmer** is a Snowball's `libstemmer_c` wrapper module and it returns 100% compatible result with **snowballstemmer**.

**PyStemmer** has faster speed because it uses C-lang module, and **snowballstemmer** has higher usability because it is pure Python module.

* `PyStemmer <http://pypi.python.org/pypi/PyStemmer/>`

Benchmark
~~~~~~~~~~

Test Case: Snowball stemmer check data (16 algorithms, total 582560 words, cache hit 0%)
Computer: MacBook Pro 3rd Gen Corei7 2.3GHz

* Python 2.7 + **snowballstemmer** : 2m 30s
* PyPy 1.9 + **snowballstemmer** : 45s
* Python 2.7 + **PyStemmer** : 5s

This test case is much harder than usual usecases!

The `TestApp` example
----------------------

The `testapp.py` example program allows you to run any of the stemmers on a sample vocabulary.
Usage::

testapp.py <algorithm> "sentences ...

.. code-block:: bash

$ python testapp.py English "sentences... "

Thanks
-------

* Original Snowball authors
* Emil Stenstrm

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-------

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

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Metadata-Version: 1.1
Name: snowballstemmer
Version: 1.2.1
Summary: This package provides 16 stemmer algorithms (15 + Porter English stemmer) generated from Snowball algorithms.
Home-page: https://github.com/shibukawa/snowball_py
Author: Yoshiki Shibukawa
Author-email: yoshiki at shibu.jp
License: BSD
Description:
   It includes following language algorithms:

   * Danish
   * Dutch
   * English (Standard, Porter)
   * Finnish
   * French
   * German
   * Hungarian
   * Italian
   * Norwegian
   * Portuguese
   * Romanian
   * Russian
   * Spanish
   * Swedish
   * Turkish

   This is a pure Python stemming library. If `PyStemmer <http://pypi.python.org/pypi/PyStemmer>`_ is available, this module uses it to accelerate.

Keywords: stemmer
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
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Classifier: License :: OSI Approved :: BSD License
Classifier: Programming Language :: Python
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***
A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

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

def main():

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

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

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
            'Intended Audience :: Developers',
            'Intended Audience :: System Administrators',
            'License :: OSI Approved :: BSD License',
            'Operating System :: OS Independent',
            'Programming Language :: Python',
            'Programming Language :: Python :: 2',
            'Programming Language :: Python :: 2.7',
            'Programming Language :: Python :: 3',
            'Programming Language :: Python :: 3.4',
            'Programming Language :: Python :: 3.5',
            'Programming Language :: Python :: 3.6',
            'Programming Language :: Python :: 3.7',
            'Programming Language :: Python :: 3.8',
            'Programming Language :: Python :: Implementation :: CPython',
            'Programming Language :: Python :: Implementation :: PyPy',
            'Topic :: Internet :: Name Service (DNS)',
        ]
    }
```
setup(**arguments)

if __name__ == '__main__':
    main()

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* /opt/cola/permits/1110905341_1606871385.15/0/kjd-idna-v2-10-0-ge5c11db-1-tar-gz/kjd-idna-b8defb9/setup.py

1.321 perl-pod-perldoc 3.20 4.el7

1.322 util-linux 2.25.2-6
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*/
/
* Fallback for old or obscure libcs without dynamically allocated cpusets
*
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jar/io/netty/handler/codec/http2/DefaultHttp2SettingsAckFrame.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/unix/Buffer.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/memcache/LastMemcacheContent.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/memcache/DefaultMemcacheContent.java
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Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in its [link ChannelPipeline].

Sub-types

[link ChannelHandler] itself does not provide many methods, but you usually have to implement one of its subtypes:

- [link ChannelInboundHandler] to handle inbound I/O events, and
- [link ChannelOutboundHandler] to handle outbound I/O operations.

Alternatively, the following adapter classes are provided for your convenience:

- [link ChannelInboundHandlerAdapter] to handle inbound I/O events,
- [link ChannelOutboundHandlerAdapter] to handle outbound I/O operations,
- [link ChannelDuplexHandler] to handle both inbound and outbound events

For more information, please refer to the documentation of each subtype.

The context object

A [link ChannelHandler] is provided with a [link ChannelHandlerContext] object. A [link ChannelHandler] is supposed to interact with the [link ChannelPipeline] it belongs to via a context object. Using the context object, the [link ChannelHandler] can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using [link AttributeKey])s which is specific to the handler.

State management
A `@link ChannelHandler` often needs to store some stateful information. The simplest and recommended approach is to use member variables:

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

public class DataServerHandler extends `@link SimpleChannelInboundHandler`<Message> {

    private boolean loggedIn;

    @Override
    public void channelRead0(`@link ChannelHandlerContext` ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else (message instanceof GetDataMessage) {
            if (loggedIn) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }

    ...
}
```

Because the handler instance has a state variable which is dedicated to one connection, you have to create a new handler instance for each new channel to avoid a race condition where a unauthenticated client can get the confidential information:

```java
// Create a new handler instance per channel.
// See `@link ChannelInitializer#initChannel(Channel)`.
public class DataServerInitializer extends `@link ChannelInitializer`<`@link Channel`> {
    @Override
    public void initChannel(`@link Channel` channel) {
        channel.pipeline().addLast("handler", new DataServerHandler());
    }
}
```

### Using `@link AttributeKey`s

Although it's recommended to use member variables to store the state of a handler, for some reason you might not want to create many handler instances.
In such a case, you can use `AttributeKey` which is provided by `ChannelHandlerContext`:

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

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

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

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

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

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

The `@Sharable` annotation

In the example above which used an `AttributeKey`, you might have noticed the `Sharable` annotation.
If a `@link ChannelHandler` is annotated with the `@Sharable` annotation, it means you can create an instance of the handler just once and add it to one or more `@link ChannelPipeline`s multiple times without a race condition.

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

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

Additional resources worth reading

Please refer to the `@link ChannelHandler`, and `@link ChannelPipeline` to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

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jar/io/netty/handler/codec/http2/DefaultHttp2HeadersDecoder.java
* /opt/cola/permissions/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2FrameWriter.java
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* /opt/cola/permissions/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/http2/helloworld/server/HelloWorldHttp2Handler.java
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* /opt/cola/permissions/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/http2/helloworld/client/HttpResponseHandler.java
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*/
/**
 * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */
/**
 * Set the {@code TCP_QUICKACK} option on the socket.
 * See <a href="https://linux.die.net//man/7/tcp">TCP_QUICKACK</a>
 * for more details.
 */

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*/
/*
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* https://creativecommons.org/licenses/publicdomain
*/
/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/

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*/
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*/
/**
* Utility class for [ @link ByteBuf] that encodes and decodes to and from
* <a href="https://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>
* The encoding and decoding algorithm in this class has been derived from
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* */

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

Found in path(s):
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscUnboundedXaddChunk.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/AtomicQueueFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseSpscLinkedAtomicArrayQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscUnboundedArrayQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseLinkedAtomicQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/ConcurrentCircularArrayQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscCompoundQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/AtomicReferenceArrayQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpscLinkedAtomicQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/shaded/org/jctools/atomic/SpscAtomicArrayQueue.java

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/BaseLinkedQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpscChunkedArrayQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/ConcurrentAutoTable.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeAccess.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseMpscLinkedAtomicArrayQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscArrayQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MessagePassingQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpmcArrayQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpscGrowableArrayQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/shaded/org/jctools/spec/ConcurrentQueueSpec.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/AbstractEntry.java

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/WrappedUnpooledUnsafeDirectByteBuf.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/PreferHeapByteBufAllocator.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/kqueue/AcceptFilter.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/kqueue/Native.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/PemValue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2GoAwayFrame.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/ssl/ReferenceCountedOpenSslClientContext.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/string/LineEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/dns/DnsOptEcsRecord.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketChunkedInput.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/ReadOnlyHttp2Headers.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/DefaultHttp2Headers.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/DatagramPacketDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/resolver/dns/DefaultDnsCache.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/AdvancedLeakAwareCompositeByteBuf.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/concurrent/EventExecutorChooserFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutorChooserFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/concurrent/DefaultSelectStrategyFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/WrappedUnpooledSlicedByteBuf.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/ReadOnlyHttp2Headers.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/AdvancedLeakAwareCompositeByteBuf.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/OutOfDirectMemoryError.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/OutOfDirectMemoryError.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/concurrent/EventExecutorChooserFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/DefaultHttp2Headers.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/string/LineEncoder.java
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jar/io/netty/handler/ssl/PemX509Certificate.java
*/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
*/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/kqueue/KQueueDatagramChannelConfig.java
*/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/smtp/SmtpRequestEncoder.java
*/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/http2/helloworld/frame/server/Http2ServerInitializer.java
*/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
*/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/dns/AbstractDnsOptPseudoRrRecord.java
*/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/PemEncoded.java
*/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/flush/package-info.java
*/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/PemEncoded.java
*/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/Http2Frame.java
*/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/smtp/LastSmtpContent.java
*/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/MacAddressUtil.java
*/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/concurrent/RejectedExecutionHandlers.java
*/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/concurrent/UnorderedThreadPoolEventExecutor.java
*/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/kqueue/KQueue.java
*/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/kqueue/KQueueSocketChannelConfig.java
*/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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jar/io/netty/handler/codec/http/multipart/FileUploadUtil.java
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jar/io/netty/handler/codec/http2/DefaultHttp2ResetFrame.java
*/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/DefaultHttp2DataFrame.java
jar/io/netty/handler/codec/http2/Http2MultiplexCodec.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2WindowUpdateFrame.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/SocketUtils.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/kqueue/KQueueSynchronouslyReferencedJniMethods.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/dns/DnsOptPseudoRecord.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/kqueue/KQueueServerDomainSocketChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/kqueue/KQueueEventArray.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2DataFrame.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/DefaultSelectStrategy.java

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/logging/CommonsLogger.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/logging/Log4JLogger.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/logging/InternalLogger.java

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jar/io/netty/handler/codec/http/HttpMessageDecoderResult.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/unix/SegmentedDatagramPacket.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/OpenSslClientSessionCache.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/OpenSslContextOption.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/epoll/SegmentedDatagramPacket.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionId.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionCache.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/SslContextOption.java

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 */
A decoder that splits the received \{@link ByteBuf\}s dynamically by the
value of the length field in the message. It is particularly useful when you
decode a binary message which has an integer header field that represents the
length of the message body or the whole message.

[@link LengthFieldBasedFrameDecoder] has many configuration parameters so
that it can decode any message with a length field, which is often seen in
proprietary client-server protocols. Here are some example that will give
you the basic idea on which option does what.

2 bytes length field at offset 0, do not strip header

The value of the length field in this example is \texttt{12 (0x0C)} which
represents the length of "HELLO, WORLD". By default, the decoder assumes
that the length field represents the number of the bytes that follows the
length field. Therefore, it can be decoded with the simplistic parameter
combination.

```java
lengthFieldOffset   = 0
lengthFieldLength   = 2
lengthAdjustment    = 0
initialBytesToStrip = 0 (= do not strip header)
```

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

```
+--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Length | Actual Content |
| 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
+--------+----------------+      +--------+----------------+
```

2 bytes length field at offset 0, strip header

Because we can get the length of the content by calling
[@link ByteBuf\#readableBytes()], you might want to strip the length
field by specifying \texttt{initialBytesToStrip}. In this example, we
specified \texttt{2}, that is same with the length of the length field, to
strip the first two bytes.

```java
lengthFieldOffset   = 0
lengthFieldLength   = 2
lengthAdjustment    = 0
initialBytesToStrip = 2 (= the length of the Length field)
```

BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)

```
+--------+----------------+      +----------------+
| Length | Actual Content |----->| Actual Content |
```
* | 0x000C | "HELLO, WORLD" | | "HELLO, WORLD" |
* +----------------+ +----------------+
* </pre>
* 
* ch3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message<h3>
* 
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* b>lengthAdjustment\</b> = b>-2\</b> (= the length of the Length field)
* initialBytesToStrip = 0
* 
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +----------------+ +----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" | | 0x000E | "HELLO, WORLD" |
* +----------------+ +----------------+
* </pre>
* 
* ch3>3 bytes length field at the end of 5 bytes header, do not strip header<h3>
* 
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* b>lengthFieldOffset\</b> = b>2\</b> (= the length of Header 1)
* b>lengthFieldLength\</b> = b>3\</b>
* lengthAdjustment = 0
* initialBytesToStrip = 0
* 
* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
* +----------------+ +----------------+
* | Header 1 | Length | Actual Content |----->| Header 1 | Length | Actual Content |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" | | 0xCAFE | 0x00000C | "HELLO, WORLD" |
* +----------------+ +----------------+
* </pre>
* 
* ch3>3 bytes length field at the beginning of 5 bytes header, do not strip header<h3>
This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive `<tt>lengthAdjustment</tt>` so that the decoder counts the extra header into the frame length calculation.

* `<pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 3
* <b>lengthAdjustment</b>    = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE   | "HELLO, WORLD" |      | 0x00000C | 0xCAFE   | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
* *
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field</h3>
*
* This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field. The prepended header affects the `<tt>lengthFieldOffset</tt>` and the extra header affects the `<tt>lengthAdjustment</tt>`. We also specified a non-zero `<tt>initialBytesToStrip</tt>` to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify `<tt>0</tt>` for `<tt>initialBytesToSkip</tt>`.
*
* `<pre>
* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
*
* BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+--------+------+----------------+      +------+----------------+
* </pre>
* *
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field represents the length of the whole message</h3>
*
* Let's give another twist to the previous example. The only difference from the previous example is that the length field represents the length of the whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into `<tt>lengthAdjustment</tt>`.
* Please note that we don't need to take the length of HDR2 into account
* because the length field already includes the whole header length.
* <pre>
* lengthFieldOffset   =  1
* lengthFieldLength   =  2
* <b>lengthAdjustment</b>    = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b> 3</b>
* 
* BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+--------+------+----------------+      +------+----------------+
* </pre>

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  jar/io/netty/handler/codec/redis/FixedRedisMessagePool.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
  jar/io/netty/example/http2/helloworld/multiplex/server/HelloWorldHttp2Handler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
  jar/io/netty/handler/codec/redis/ErrorRedisMessage.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
  jar/io/netty/handler/codec/redis/CodecUtil.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
  jar/io/netty/handler/codec/redis/FullBulkStringRedisMessage.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
  jar/io/netty/handler/codec/redis/package-info.java
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  jar/io/netty/handler/codec/redis/LastBulkStringRedisContent.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
  jar/io/netty/handler/codec/redis/RedisMessagePool.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
  jar/io/netty/handler/codec/redis/RedisClient.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
  jar/io/netty/handler/codec/redis/BulkStringRedisContent.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
  jar/io/netty/handler/codec/redis/DefaultLastBulkStringRedisContent.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
  jar/io/netty/handler/codec/redis/Http2OrHttpHandler.java

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/search/SearchProcessorFactory.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/http2/helloworld/frame/client/Http2ClientFrameInitializer.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/http2/helloworld/frame/client/Http2ClientStreamFrameResponseHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/search/AbstractMultiSearchProcessorFactory.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/http2/helloworld/frame/client/Http2FrameClient.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/internal/tcnative/CertificateVerifierTask.java
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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
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e) Verify that the user has already received a copy of these
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1.331 bind 9.9.4-29.el7_2.4

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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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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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tomb - support for clean goroutine termination in Go.

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010
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abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the 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
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   <signature of Ty Coon>, 1 April 1989
   Ty Coon, President of Vice
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The End
#!perl

copyright.t

description

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = ";
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*\b(\d{4,})\b/s
        or die "Year not found in README copyright message '$copyright_msg'";

    $year;
};

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987\b(\d{4,})\b/s
        or die "Copyright statement not found in perl -v output '$output'";

    $year;
};
1.334 certifi 2018.4.16
1.334.1 Available under license :

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

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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

1.335 jwt-go v3.2.2+incompatible
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1.336 go-flags v1.4.0

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1.337 x-sys v0.0.0-20190422165155-953cdadca894

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1.338 perl-sub-exporter 0.987-15.el8

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THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel
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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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1.342 less 530 1.el8
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* org.eclipse.jetty.orbit:javax.security.auth.message

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

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

Oracle OpenJDK

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* java.sun.security.ssl

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

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

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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1.345 perl-module-corelist 5.20181130-1.el8

1.345.1 Available under license:
No license file was found, but licenses were detected in source scan.

=pod

=head1 NAME

Module::CoreList::Utils - what utilities shipped with versions of perl

=head1 SYNOPSIS

use Module::CoreList::Utils;

print $Module::CoreList::Utils::utilities{5.009003}{ptar}; # prints 1

print Module::CoreList::Utils->first_release('corelist');
# prints 5.008009

print Module::CoreList::Utils->first_release_by_date('corelist');
# prints 5.009002

=head1 DESCRIPTION
Module::CoreList::Utils provides information on which core and dual-life utilities shipped with each version of L<perl>.

It provides a number of mechanisms for querying this information.

There is a functional programming API available for programmers to query information.

Programmers may also query the contained hash structure to find relevant information.

=head1 FUNCTIONS API

These are the functions that are available, they may either be called as functions or class methods:

Module::CoreList::Utils::first_release('corelist'); # as a function

Module::CoreList::Utils->first_release('corelist'); # class method

=item C<utilities>

Requires a perl version as an argument, returns a list of utilities that shipped with that version of perl, or undef/empty list if that perl doesn't exist.

=item C<first_release( UTILITY )>

Requires a UTILITY name as an argument, returns the perl version when that utility first appeared in core as ordered by perl version number or undef (in scalar context) or an empty list (in list context) if that utility is not in core.

=item C<first_release_by_date( UTILITY )>

Requires a UTILITY name as an argument, returns the perl version when that utility first appeared in core as ordered by release date or undef (in scalar context) or an empty list (in list context) if that utility is not in core.

=item C<removed_from( UTILITY )>

Takes a UTILITY name as an argument, returns the first perl version where that utility was removed from core. Returns undef if the given utility was never in core or remains in core.

=item C<removed_from_by_date( UTILITY )>

Takes a UTILITY name as an argument, returns the first perl version by release date where that
utility was removed from core. Returns undef if the given utility was never in core or remains in core.

=back

=head1 DATA STRUCTURES

These are the hash data structures that are available:

=over

=item C<%Module::CoreList::Utils::utilities>

A hash of hashes that is keyed on perl version as indicated in $]. The second level hash is utility / defined pairs.

=back

=head1 AUTHOR

Chris C<BinGOs> Williams <chris@bingosnet.co.uk>

Currently maintained by the perl 5 porters E<lt>perl5-porters@perl.orgE<gt>.

This module is the result of archaeology undertaken during QA Hackathon in Lancaster, April 2013.

=head1 LICENSE

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=head1 SEE ALSO

L<corelist>, L<Module::CoreList>, L<perl>, L<http://perlpunks.de/corelist>

=cut

Found in path(s):
* /opt/cola/permits/1178587671_1625692005.94/0/perl-Module-CoreList-5.20181130-1.el8-1.src.rpm-cosi-expand-archive-yCHWB39u/Module-CoreList-5.20181130.tar.gz-cosi-expand-archive-p5WfDmR2/Module-CoreList-5.20181130/lib/Module/CoreList/Utils.pm
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README for Module::CoreList 2.20
NAME

Module::CoreList - what modules shipped with versions of perl

SYNOPSIS

use Module::CoreList;

print $Module::CoreList::version{5.00503}{CPAN}; # prints 1.48

print Module::CoreList->first_release('File::Spec'); # prints 5.00503
print Module::CoreList->first_release('File::Spec', 0.82); # prints 5.006001

print join "", @{$Module::CoreList::families{5.005}}; # prints "5.005, 5.00503, 5.00504"

DEPENDENCIES

This module has external dependencies on the following modules:

Test::More

INSTALLATION

perl Makefile.PL
make
make test

and if all goes well

make install

HISTORY

See the F<Changes> file.

AUTHOR

Richard Clamp E<lt>richarde@unixbeard.netE<gt>

Currently maintained by the perl 5 porters E<lt>perl5-porters@perl.orgE<gt>.

COPYRIGHT

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=head1 SEE ALSO

L<Module::Info>, L<perl>

Found in path(s):
* /opt/cola/permits/1178587671_1625692005.94/0/perl-Module-CoreList-5.20181130-1.el8-1.src.rpm-cosi-expand-archive-yCHWB39u/Module-CoreList-5.20181130.tar.gz-cosi-expand-archive-p5WfDmR2/Module-CoreList-5.20181130/README

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

---

table: | abstract | what modules shipped with versions of perl
author: | unknown
build_requires: |
ExtUtils::MakeMaker: '0'
configure_requires: |
ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.34, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec: |
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: '1.4'
name: Module-CoreList
no_index: |
directory: |
- t
- inc
requires: |
List::Util: '0'
Test::More: '0'
version: '0.88'
resources: |
bugtracker: https://rt.perl.org/rt3/
hompage: http://dev.perl.org/
repository: git://perl5.git.perl.org/perl.git
version: '5.20181130'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
* /opt/cola/permits/1178587671_1625692005.94/0/perl-Module-CoreList-5.20181130-1.el8-1.src.rpm-cosi-expand-archive-yCHWB39u/Module-CoreList-5.20181130.tar.gz-cosi-expand-archive-p5WfDmR2/Module-CoreList-5.20181130/META.yml

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License: GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1178587671_1625692005.94/0/perl-Module-CoreList-5.20181130-1.el8-1.src.rpm-cosi-expand-archive-yCHWB39u/perl-Module-CoreList.spec
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=head1 EXAMPLES

$ corelist File::Spec

File::Spec was first released with perl 5.005  

$ corelist File::Spec 0.83

File::Spec 0.83 was released with perl 5.007003  

$ corelist File::Spec 0.89

File::Spec 0.89 was not in CORE (or so I think)  

$ corelist File::Spec::Aliens

File::Spec::Aliens was not in CORE (or so I think)  

$ corelist /IPC::Open/

IPC::Open2 was first released with perl 5  
IPC::Open3 was first released with perl 5  

$ corelist /MANIFEST/i

ExtUtils::Manifest was first released with perl 5.001  

$ corelist /Template/

/Template/ has no match in CORE (or so I think)  

$ corelist -v 5.8.8 B

B 1.09_01  

$ corelist -v 5.8.8 /^(B::)/

B::Asmdata 1.01 
B::Assembler 0.07 
B::Bblock 1.02_01
=head1 COPYRIGHT

Copyright (c) 2002-2007 by D.H. aka PodMaster

Currently maintained by the perl 5 porters E<lt>perl5-porters@perl.orgE<gt>.

This program is distributed under the same terms as perl itself.
See http://perl.org/ or http://cpan.org/ for more info on that.

=cut

Found in path(s):
* /opt/cola/permits/1178587671_1625692005.94/0/perl-Module-CoreList-5.20181130-1.el8-1.src.rpm-cosi-expand-archive-yCHWB39u/Module-CoreList-5.20181130.tar.gz-cosi-expand-archive-p5WfDmR2/Module-CoreList-5.20181130/corelist
No license file was found, but licenses were detected in source scan.

=head1 NAME

Module::CoreList - what modules shipped with versions of perl

=head1 SYNOPSIS

use Module::CoreList;

print $Module::CoreList::version{5.00503}{CPAN}; # prints 1.48

print Module::CoreList->first_release('File::Spec');
# prints 5.00405

print Module::CoreList->first_release_by_date('File::Spec');
# prints 5.005
print Module::CoreList->first_release('File::Spec', 0.82);
# prints 5.006001

if (Module::CoreList::is_core('File::Spec')) {
    print "File::Spec is a core module\n";
}

print join ', ', Module::CoreList->find_modules(qr/Data/);
    # prints 'Data::Dumper'
print join ', ',
    Module::CoreList->find_modules(qr/test::h.*::.*s/i, 5.008008);
    # prints 'Test::Harness::Assert, Test::Harness::Straps'

print join ", ", @{ $Module::CoreList::families{5.005} };
    # prints "5.005, 5.00503, 5.00504"

=head1 DESCRIPTION

Module::CoreList provides information on which core and dual-life modules shipped with each version of L<perl>.

It provides a number of mechanisms for querying this information.

There is a utility called L<corelist> provided with this module which is a convenient way of querying from the command-line.

There is a functional programming API available for programmers to query information.

Programmers may also query the contained hash structures to find relevant information.

=head1 FUNCTIONS API

These are the functions that are available, they may either be called as functions or class methods:

Module::CoreList::first_release('File::Spec'); # as a function

Module::CoreList->first_release('File::Spec'); # class method

=over

=item C<first_release( MODULE )>

Behaviour since version 2.11

Requires a MODULE name as an argument, returns the perl version when that module first appeared in core as ordered by perl version number or undef ( in scalar context )
or an empty list ( in list context ) if that module is not in core.

=item C<first_release_by_date( MODULE )>

Requires a MODULE name as an argument, returns the perl version when that module first
appeared in core as ordered by release date or undef ( in scalar context )
or an empty list ( in list context ) if that module is not in core.

=item C<find_modules( REGEX, [ LIST OF PERLS ] )>

Takes a regex as an argument, returns a list of modules that match the regex given.
If only a regex is provided applies to all modules in all perl versions. Optionally
you may provide a list of perl versions to limit the regex search.

=item C<find_version( PERL_VERSION )>

Takes a perl version as an argument. Upon successful completion, returns a
reference to a hash. Each element of that hash has a key which is the name of
a module (I<e.g.,> 'File::Path') shipped with that version of perl and a value
which is the version number (I<e.g.,> '2.09') of that module which shipped
with that version of perl . Returns C<undef> otherwise.

=item C<is_core( MODULE, [ MODULE_VERSION, [ PERL_VERSION ] ] )>

Available in version 2.99 and above.

Returns true if MODULE was bundled with the specified version of Perl.
You can optionally specify a minimum version of the module,
and can also specify a version of Perl.
If a version of Perl isn't specified,
C<is_core()> will use the numeric version of Perl that is running (ie C<$> ).

If you want to specify the version of Perl, but don't care about
the version of the module, pass C<undef> for the module version:

=item C<is_deprecated( MODULE, PERL_VERSION )>

Available in version 2.22 and above.

Returns true if MODULE is marked as deprecated in PERL_VERSION. If PERL_VERSION is
omitted, it defaults to the current version of Perl.

=item C<deprecated_in( MODULE )>

Available in version 2.77 and above.

Returns the first perl version where the MODULE was marked as deprecated. Returns C<undef>
if the MODULE has not been marked as deprecated.
Available in version 2.32 and above

Takes a module name as an argument, returns the first Perl version where that module was removed from core. Returns undef if the given module was never in core or remains in core.

Available in version 2.32 and above

Takes a module name as an argument, returns the first Perl version by release date where that module was removed from core. Returns undef if the given module was never in core or remains in core.

Available in version 2.66 and above.

Given two Perl versions, this returns a list of pairs describing the changes in core module content between them. The list is suitable for storing in a hash. The keys are library names and the values are hashrefs. Each hashref has an entry for one or both of C<left> and C<right>, giving the versions of the library in each of the left and right Perl distributions.

For example, it might return these data (among others) for the difference between 5.008000 and 5.008001:

'Pod::ParseLink' => { left => '1.05', right => '1.06' },
'Pod::ParseUtils' => { left => '0.22', right => '0.3' },
'Pod::Perldoc' => { right => '3.10' },
'Pod::Perldoc::BaseTo' => { right => undef },

This shows us two libraries being updated and two being added, one of which has an undefined version in the right-hand side version.

DATA STRUCTURES

These are the hash data structures that are available:
A hash of hashes that is keyed on perl version as indicated in $]. The second level hash is module => version pairs.

Note, it is possible for the version of a module to be unspecified, whereby the value is C<undef>, so use C<exists $version{$foo}{$bar}> if that's what you're testing for.

Starting with 2.10, the special module name C<Unicode> refers to the version of the Unicode Character Database bundled with Perl.

=item C< %Module::CoreList::delta >

Available in version 3.00 and above.

It is a hash of hashes that is keyed on perl version. Each keyed hash will have the following keys:

delta_from - a previous perl version that the changes are based on
changed    - a hash of module/versions that have changed
removed    - a hash of modules that have been removed

=item C< %Module::CoreList::released >

Keyed on perl version this contains ISO formatted versions of the release dates, as gleaned from L<perlhist>.

=item C< %Module::CoreList::families >

New, in 1.96, a hash that clusters known perl releases by their major versions.

=item C< %Module::CoreList::deprecated >

A hash of hashes keyed on perl version and on module name. If a module is defined it indicates that that module is deprecated in that perl version and is scheduled for removal from core at some future point.

=item C< %Module::CoreList::upstream >

A hash that contains information on where patches should be directed for each core module.

UPSTREAM indicates where patches should go. C<undef> implies that this hasn't been discussed for the module at hand. C<blead> indicates that the copy of the module in the blead sources is to be considered canonical, C<cpan> means that the module on CPAN is to be patched first. C<first-come> means
that blead can be patched freely if it is in sync with the latest release on CPAN.

=item C<%Module::CoreList::bug_tracker>

A hash that contains information on the appropriate bug tracker for each core module.

BUGS is an email or url to post bug reports. For modules with UPSTREAM => 'blead', use perl5-porters@perl.org. rt.cpan.org appears to automatically provide a URL for CPAN modules; any value given here overrides the default:
http://rt.cpan.org/Public/Dist/Display.html?Name=$ModuleName

=back

=head1 CAVEATS

Module::CoreList currently covers the 5.000, 5.001, 5.002, 5.003_07, 5.004, 5.004_05, 5.005, 5.005_03, 5.005_04 and 5.7.3 releases of perl.

All stable releases of perl since 5.6.0 are covered.

All development releases of perl since 5.9.0 are covered.

=head1 HISTORY

Moved to Changes file.

=head1 AUTHOR

Richard Clamp E<lt>richarde@unixbeard.netE<gt>

Currently maintained by the perl 5 porters E<lt>perl5-porters@perl.orgE<gt>.

=head1 LICENSE

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

=head1 SEE ALSO

L<corelist>, L<Module::Info>, L<perl>, L<http://perlpunks.de/corelist>

=cut
1.346 spring-web 5.1.9.RELEASE

1.346.1 Available under license:

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 */

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# Although created for httpd, this file is used by many software systems
# and has been placed in the public domain for unlimited redistribution.
#
# The table below contains both registered and (common) unregistered types.
# A type that has no unique extension can be ignored -- they are listed
# here to guide configurations toward known types and to make it easier to
# identify "new" types.  File extensions are also commonly used to indicate
# content languages and encodings, so choose them carefully.
#
# Internet media types should be registered as described in RFC 4288.
# The registry is at <https://www.iana.org/assignments/media-types/>.
#
# This file was retrieved from
# MIME type (lowercased)Extensions
# ============================================
# application/1d-interleaved-parityfec
# application/3gpdash-qoe-report+xml
# application/3gpp-ims+xml
# application/a2l
# application/activemessage
# application/alto-costmap+json
# application/alto-costmapfilter+json
# application/alto-directory+json
# application/alto-endpointcost+json
# application/alto-endpointcostparams+json
# application/alto-endpointprop+json
# application/alto-endpointpropparams+json
# application/alto-error+json
# application/alto-networkmap+json
# application/alto-networkmapfilter+json
# application/aml
application/andrew-insetez
# application/applefile
application/applixwareaw
# application/atf
# application/atfx
application/atom+xml
application/atomcat+xml
# application/atomdeleted+xml
# application/atomicmail
application/atomsvc+xml
# application/axml
# application/auth-policy+xml
# application/bacnet-xdd+xml
# application/batch-smtp
# application/beep+xml
# application/calendar+xml
# application/calendar+xml
# application/call-completion
# application/cals-1840
# application/cbor
# application/ccmp+xml
application/ccxml+xml
# application/ccxml+xml
# application/cdfx+xml
application/cdmi-capabilitycdmia
application/cdmi-containercdmic
application/cdmi-domaincdmid
application/cdmi-objectcdmio
application/cdmi-queuecdmiq
# application/cdni
Open Source Used In APIC-SE-BATMAN 2.1.1d 4751
# application/jwt
# application/kpml-request+xml
# application/kpml-response+xml
# application/l+json
# application/lgr+xml
# application/link-format
# application/load-control+xml
application/lost+xml
# application/lostsync+xml
# application/lxf
application/mac-binhex40
application/mac-compactproct
# application/macwriteii
application/mads+xml
application/marc
application/marcxml+xml
application/mathematica
application/mathml+xml
# application/mathml-content+xml
# application/mathml-presentation+xml
# application/mbms-associated-procedure-description+xml
# application/mbms-deregister+xml
# application/mbms-envelope+xml
# application/mbms-msk+xml
# application/mbms-msk-response+xml
# application/mbms-protection-description+xml
# application/mbms-reception-report+xml
# application/mbms-register+xml
# application/mbms-register-response+xml
# application/mbms-schedule+xml
# application/mbms-user-service-description+xml
application/mbox
# application/media-policy-dataset+xml
# application/media_control+xml
application/mediaservercontrol+xml
# application/merge-patch+json
application/metalink+xml
application/metalink4+xml
application/mets+xml
# application/mf4
# application/mikey
application/mods+xml
# application/moss-keys
# application/moss-signature
# application/mosskey-data
# application/mosskey-request
application/mp21
application/mp4
# application/mpeg4-generic
# application/mpeg4-iod
# application/mpeg4-iod-xmt
# application/mrb-consumer+xml
# application/mrb-publish+xml
# application/msc-ivr+xml
# application/msc-mixer+xml
application/msword
doc dot
application/mxf
# application/nasdata
# application/news-checkgroups
# application/news-groupinfo
# application/news-transmission
# application/nlsml+xml
# application/nss
# application/ocsp-request
# application/ocsp-response
application/octet-stream
bin dms lrf mar so dist distz pkg bpk dump elc deploy
application/oda
application/odx
application/oebps-package+xml
application/ogg
application/omidoc+xml
application/onesnote
application/onenote
onetoc onetoc2 onetmp onepkg
application/oepsxml
# application/p2p-overlay+xml
# application/parityfec
application/patch-ops-error+xml
application/pdf
# application/pdx
application/pgp-encrypted
# application/pgp-keys
application/pgp-signature asc sig
application/pics-rules prf
# application/pidf+xml
# application/pidf-diff+xml
application/p10 p10
# application/pkcs12
application/pkcs7-mime p7m p7c
application/pkcs7-signature p7s
application/pkcs8 p8
application/pkix-attr-certac
application/pkix-certcer
application/pkix-crl crl
application/pkix-pkipath
application/pkixcmppki
application/pls+xml
# application/poc-settings+xml
# application/session-info
# application/set-payment
application/set-payment-initiation/setpay
# application/set-registration
application/set-registration-initiation/setreg
# application/sgml
# application/sgml-open-catalog
application/shf+xml SHF
# application/simple-filter+xml
# application/simple-message-summary
# application/simplesymbolcontainer
# application/slate
# application/smil
application/smil+xml smil
# application/smpo336m
# application/soap+fastinfoset
# application/soap+xml
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application/sparql-results+xml/srx
# application/spirits-event+xml
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application/srgs+xml grxml
application/sru+xml sru
application/ssdl+xml ssdl
application/ssml+xml ssml
# application/tamp-apex-update
# application/tamp-apex-update-confirm
# application/tamp-community-update
# application/tamp-community-update-confirm
# application/tamp-error
# application/tamp-sequence-adjust
# application/tamp-sequence-adjust-confirm
# application/tamp-status-query
# application/tamp-status-response
# application/tamp-update
# application/tamp-update-confirm
application/tei+xml tei teicorpus
application/thraud+xml tfi
# application/timestamp-query
# application/timestamp-reply
application/timestamped-data/timestamped-data
# application/ttml+xml
# application/tve-trigger
# application/ulpfec
# application/urc-grpsheet+xml
# application/urc-ressheet+xml
# application/urc-twsheet+xml
# application/vnd.nokia.pcd+wbxml
# application/vnd.nokia.pcd+xml
application/vnd.nokia.radio-presetrpst
application/vnd.nokia.radio-presetrpss
application/vnd.novadigm.edmedm
application/vnd.novadigm.edxedx
application/vnd.novadigm.extext
# application/vnd.ntt-local.content-share
# application/vnd.ntt-local.file-transfer
# application/vnd.ntt-local.ogw_remote-access
# application/vnd.ntt-local.sip-ta_remote
# application/vnd.ntt-local.sip-ta_tcp_stream
application/vnd.oasis.opendocument.chartdoc
application/vnd.oasis.opendocument.chart-templateotc
application/vnd.oasis.opendocument.databaseodb
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application/vnd.oasis.opendocument.presentationodp
application/vnd.oasis.opendocument.presentation-templateotp
application/vnd.oasis.opendocument.spreadsheetods
application/vnd.oasis.opendocument.spreadsheet-templateots
application/vnd.oasis.opendocument.textodt
application/vnd.oasis.opendocument.text-masterodm
application/vnd.oasis.opendocument.text-templateott
application/vnd.oasis.opendocument.text-weboth
# application/vnd.obn
# application/vnd.oftn.l10n+json
# application/vnd.oipf.contentaccessdownload+xml
# application/vnd.oipf.contentaccessstreaming+xml
# application/vnd.oipf.cspg-hexbinary
# application/vnd.oipf.dae.svg+xml
# application/vnd.oipf.dae.xhtml+xml
# application/vnd.oipf.mippvcontrolmessage+xml
# application/vnd.oipf.pae.gem
# application/vnd.oipf.spdiscovery+xml
# application/vnd.oipf.spdlist+xml
# application/vnd.oipf.uaeprofile+xml
# application/vnd.oipf.userprofile+xml
application/vnd.olpc-sugarxo
# application/vnd.oma-scws-config
# application/vnd.oma-scws-http-request
# application/vnd.oma-scws-http-response
# application/vnd.oma.bcast.associated-procedure-parameter+xml
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# application/vnd.oma.bcast.sgdu
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# application/vnd.oma.cab-sub-invite+xml
# application/vnd.oma.cab-user-prefs+xml
# application/vnd.oma.dcd
# application/vnd.oma.dcdc
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# application/vnd.oma.drm.risd+xml
# application/vnd.oma.group-usage-list+xml
# application/vnd.oma.lwm2m+json
# application/vnd.oma.lwm2m+tlv
# application/vnd.oma.pal+xml
# application/vnd.oma.poc.detailed-progress-report+xml
# application/vnd.oma.poc.final-report+xml
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application/x-sql
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application/x-tcl
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application/x-wais-sourcesrc
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crt
application/x-xfig
application/x-xmll
application/x-xpinstall
application/x-xz
application/x-zmachine
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application/yang
application/yin+xml
application/zip
# application/zlib
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# audio/32kadpcm
# audio/3gpp
# audio/3gpp2
# audio/ac3
audio/adpcm
# audio/amr
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video/x-mng
video/x-ms-asf
video/x-ms-vob
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video/x-sgi-movie
video/x-smv
x-conference/x-cooltalk

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 */

/**
 * Return the web session for the current request. Always guaranteed to
 * return an instance either matching to the session id requested by the
 * client, or with a new session id either because the client did not
 * specify one or because the underlying session had expired. Use of this
 * method does not automatically create a session. See {@link WebSession}
 * for more details.
 */

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* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/org/springframework/remoting/jaxws/JaxWsSoapFaultException.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/org/springframework/http/MediaTypeEditor.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/org/springframework/web/bind/ServletRequestBindingException.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/org/springframework/remoting/jaxws/AbstractClientHttpResponse.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/org/springframework/web/bind/annotation/InitBinder.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/org/springframework/remoting/httpinvoker/HttpInvokerClientConfiguration.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/org/springframework/web/HttpMediaTypeNotAcceptableException.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-
jar/org/springframework/web/context/support/SpringBeanAutowiringSupport.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/org/springframework/web/util/IntrospectorCleanupListener.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/org/springframework/web/jsf/DelegatingPhaseListenerMulticaster.java

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* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/org/springframework/web/bind/annotation/SessionAttributes.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/org/springframework/web/cors/CorsUtils.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/org/springframework/web/context/request/DestructionCallbackBindingListener.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/org/springframework/web/util/HttpSessionMutexListener.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/org/springframework/web/context/exception/HttpMessageConversionException.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/org/springframework/web/multipart/MultipartResolver.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/org/springframework/web/context/request/RequestContextListener.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/org/springframework/web/HttpMessage.java

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* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/remoting/jaxws/LocalJaxWsServiceFactoryBean.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/context/support/ServletContextAwareProcessor.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/web/context/request/async/DeferredResultProcessingInterceptor.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/web/context/request/AsyncWebRequestInterceptor.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/web/context/request/async/CallableProcessingInterceptor.java
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* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources- jar/org/springframework/web/filter/GenericFilterBean.java
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* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources- jar/org/springframework/web/server/session/HeaderWebSessionIdResolver.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources- jar/org/springframework/servlet/ExceptionHandlingWebHandler.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources- jar/org/springframework/web/context/ServletConfigAware.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources- jar/org/springframework/web/context/AbstractContextLoaderInitializer.java
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* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/org/springframework/remoting/httpinvoker/AbstractHttpInvokerRequestExecutor.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/org/springframework/web/accept/ContentNegotiationStrategy.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/org/springframework/http/converter/json/MappingJacksonValue.java
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* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/web/session/InMemoryWebSessionStore.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/web/util/JavaScriptUtils.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/web/context/request/async/WebAsyncTask.java
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The End
1.348 libgpg-error 1.12 3.el7

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

---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>,"
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
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<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
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The End

#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so # that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}
1.354 x-crypto v0.0.0-20200820211705-5c72a883971a

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1.355 knz-go-libedit v1.10.1

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1.356 atk 2.14.0 1.el7

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1.357 mtd-utils 1.5.0

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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
  Dynamic chip feature detection (a.k.a. generic chip support) in 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 there to.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

1.373 perl 5.26.3 416.el8
1.373.1 Available under license:

Date: Sun, 15 Mar 2015 21:22:10 -0600
Subject: Re: Pod::Html license
From: Tom Christiansen <tchrist53147@gmail.com>
To: Petr abata <contyk@redhat.com>
Cc: Tom Christiansen <tchrist@perl.com>, marcgreen@cpan.org,
jplesnik@redhat.com
MIME-Version: 1.0
Content-Transfer-Encoding: 8bit
Content-Type: text/plain; charset=utf-8

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Petr abata <contyk@redhat.com> wrote:

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> 
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> 
> This is an issue for us as this license isn't considered free by
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> 
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> of Pod::Html?
> 
> Thanks,
> Petr
> 
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Julian Seward, jseward@bzip.org
bzlib/libbzlib version 1.0.6 of 6 September 2010

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

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---

abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the 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
license: http://dev.perl.org/licenses/
repository: http://github.com/dagolden/module-build/
version: 3
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attach them to the start of each source file to most effectively convey
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<one line to give the program's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.
If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

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

    The hypothetical commands `show w' and `show c' should show the
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    commands you use may be called something other than `show w' and `show
    c'; they could even be mouse-clicks or menu items--whatever suits your
    program.

    You should also get your employer (if you work as a programmer) or your
    school, if any, to sign a "copyright disclaimer" for the program, if
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    Yoyodyne, Inc., hereby disclaims all copyright interest in the
    program `Gnomovision' (a program to direct compilers to make passes
    at assemblers) written by James Hacker.

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

That's all there is to it!

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

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

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
That's all there is to it!

```perl
#!/usr/bin/perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;
my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so # that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}
```
done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = '';
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*\d{4,}/s;
    or die "Year not found in README copyright message '$copyright_msg'";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\d{4,}/i;
    or die "Copyright statement not found in perl -v output '$output'";

    $year;
}

1.374 google-api-go-client v0.39.0
1.374.1 Available under license:
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    # (and typically have contributed) code to the repository.
    # The AUTHORS file lists the copyright holders; this file
    # lists people. For example, Google employees are listed here
    # but not in AUTHORS, because Google holds the copyright.
    #
    # The submission process automatically checks to make sure
    # that people submitting code are listed in this file (by email address).
    #
    # Names should be added to this file only after verifying that
    # the individual or the individual's organization has agreed to
    # the appropriate Contributor License Agreement, found here:
# https://cla.developers.google.com/about/google-individual
# https://cla.developers.google.com/about/google-corporate
#
# The CLA can be filled out on the web:
#
# https://cla.developers.google.com/
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#
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# that the second address should be recognized as the 
# same person when interacting with Rietveld.

# Please keep the list sorted.

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package api

import {
  "bytes"
  "io/ioutil"
  "os"
  "path/filepath"
  "regexp"
  "testing"
}

// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|The Go Authors)(\.)*( All rights 
reserved.)(//|#) Use of this source code is governed by a BSD-style
//(//|#) license that can be found in the LICENSE file.
`)

const prefix = `// Copyright`

// A few files have to be skipped.
var skip = map[string]bool{
  "tools.go": true, // This file requires another comment above the license.
  "internal/third_party/uritemplates/uritemplates.go": true, // This file is licensed to an individual.
  "internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.
}

// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {
  err := filepath.Walk('.', func(path string, fi os.FileInfo, err error) error {
    if skip[path] {
      return nil
    }

    if err != nil {
      return err
    }

    if filepath.Ext(path) != ".go" && filepath.Ext(path) != ".sh" {
      return nil
    }

    return nil
  })
}
// Verify that the license is matched.
if !sentinel.Match(src) {
    t.Errorf("%v: license header not present", path)
    return nil
}

// Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
if filepath.Ext(path) == ".go" && !bytes.HasPrefix(src, []byte(prefix)) {
    t.Errorf("%v: license header not at the top", path)
}
return nil

if err != nil {
    t.Fatal(err)
}

---

1.375 perl-pod-perldoc 3.28 396.el8

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**1.376 lshw B.02.18-23.el8**

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1.378 perl-uri 1.73-3.el8

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1.388 spring-boot-starter-freemarker

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Found in path(s):
* /opt/cola/permits/1183569501_1627428110.01/0/hdrhistogram-2-1-11-sources-7-
jar/org/HdrHistogram/ConcurrentHistogram.java
* /opt/cola/permits/1183569501_1627428110.01/0/hdrhistogram-2-1-11-sources-7-
jar/org/HdrHistogram/ShortCountsHistogram.java
* /opt/cola/permits/1183569501_1627428110.01/0/hdrhistogram-2-1-11-sources-7-
jar/org/HdrHistogram/HistogramLogReader.java
* /opt/cola/permits/1183569501_1627428110.01/0/hdrhistogram-2-1-11-sources-7-
jar/org/HdrHistogram/Base64Helper.java
* /opt/cola/permits/1183569501_1627428110.01/0/hdrhistogram-2-1-11-sources-7-
jar/org/HdrHistogram/HistogramLogScanner.java
* /opt/cola/permits/1183569501_1627428110.01/0/hdrhistogram-2-1-11-sources-7-
jar/org/HdrHistogram/DoubleAllValuesIterator.java
* /opt/cola/permits/1183569501_1627428110.01/0/hdrhistogram-2-1-11-sources-7-
jar/org/HdrHistogram/Recorder.java
* /opt/cola/permits/1183569501_1627428110.01/0/hdrhistogram-2-1-11-sources-7-
jar/org/HdrHistogram/AtomicHistogram.java
* /opt/cola/permits/1183569501_1627428110.01/0/hdrhistogram-2-1-11-sources-7-
jar/org/HdrHistogram/ZigZagEncoding.java
* /opt/cola/permits/1183569501_1627428110.01/0/hdrhistogram-2-1-11-sources-7-
jar/org/HdrHistogram/SynchronizedHistogram.java
* /opt/cola/permits/1183569501_1627428110.01/0/hdrhistogram-2-1-11-sources-7-
jar/org/HdrHistogram/HistogramIterationValue.java
* /opt/cola/permits/1183569501_1627428110.01/0/hdrhistogram-2-1-11-sources-7-
jar/org/HdrHistogram/DoubleLinearIterator.java
* /opt/cola/permits/1183569501_1627428110.01/0/hdrhistogram-2-1-11-sources-7-
jar/org/HdrHistogram/IntCountsHistogram.java
* /opt/cola/permits/1183569501_1627428110.01/0/hdrhistogram-2-1-11-sources-7-
jar/org/HdrHistogram/DoubleHistogramIterationValue.java
* /opt/cola/permits/1183569501_1627428110.01/0/hdrhistogram-2-1-11-sources-7-
jar/org/HdrHistogram/SynchronizedDoubleHistogram.java
* /opt/cola/permits/1183569501_1627428110.01/0/hdrhistogram-2-1-11-sources-7-
jar/org/HdrHistogram/RecordedValuesIterator.java
* /opt/cola/permits/1183569501_1627428110.01/0/hdrhistogram-2-1-11-sources-7-
jar/org/HdrHistogram/AbstractHistogramIterator.java
* /opt/cola/permits/1183569501_1627428110.01/0/hdrhistogram-2-1-11-sources-7-
jar/org/HdrHistogram/DoubleLinearIterator.java
* /opt/cola/permits/1183569501_1627428110.01/0/hdrhistogram-2-1-11-sources-7-

jar/org/HdrHistogram/ConcurrentDoubleHistogram.java
* /opt/cola/permits/1183569501_1627428110.01/0/hdrhistogram-2-1-11-sources-7-jar/org/HdrHistogram/Version.java
* /opt/cola/permits/1183569501_1627428110.01/0/hdrhistogram-2-1-11-sources-7-jar/org/HdrHistogram/LinearIterator.java
* /opt/cola/permits/1183569501_1627428110.01/0/hdrhistogram-2-1-11-sources-7-jar/org/HdrHistogram/DoubleRecordedValuesIterator.java
* /opt/cola/permits/1183569501_1627428110.01/0/hdrhistogram-2-1-11-sources-7-jar/org/HdrHistogram/AllValuesIterator.java
* /opt/cola/permits/1183569501_1627428110.01/0/hdrhistogram-2-1-11-sources-7-jar/org/HdrHistogram/PercentileIterator.java
* /opt/cola/permits/1183569501_1627428110.01/0/hdrhistogram-2-1-11-sources-7-jar/org/HdrHistogram/DoubleLogarithmicIterator.java
* /opt/cola/permits/1183569501_1627428110.01/0/hdrhistogram-2-1-11-sources-7-jar/org/HdrHistogram/EncodableHistogram.java
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 *
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class Version {
public static final String version="$VERSION$";
public static final String build_time="$BUILD_TIME$";
}

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* /opt/cola/permits/1183569501_1627428110.01/0/hdrhistogram-2-1-11-sources-7-jar/org/HdrHistogram/Version.java.template
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1.392 grub2 2.02-0.87.el7.centos.6

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1.396 grafana-grafana-plugin-model v0.0.0-20190930120109-1fc953a61fb4
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SipHash (Go)
==============

[![Build Status](https://travis-ci.org/dchest/siphash.svg)](https://travis-ci.org/dchest/siphash)

Go implementation of SipHash-2-4, a fast short-input PRF created by Jean-Philippe Aumasson and Daniel J. Bernstein (http://131002.net/siphash/).

## Installation

```sh
$ go get github.com/dchest/siphash
```

## Usage

```go
import "github.com/dchest/siphash"
```

There are two ways to use this package. The slower one is to use the standard hash.Hash64 interface:

```go
h := siphash.New(key)
h.Write([]byte("Hello"))
sum := h.Sum(nil) // returns 8-byte []byte
```

or

```go
sum64 := h.Sum64() // returns uint64
```

The faster one is to use Hash() function, which takes two uint64 parts of 16-byte key and a byte slice, and returns uint64 hash:

```go
sum64 := siphash.Hash(key0, key1, []byte("Hello"))
```

The keys and output are little-endian.

## Functions

### func Hash(k0, k1 uint64, p []byte) uint64
Hash returns the 64-bit SipHash-2-4 of the given byte slice with two 64-bit parts of 128-bit key: k0 and k1.

### func Hash128(k0, k1 uint64, p []byte) (uint64, uint64)
Hash128 returns the 128-bit SipHash-2-4 of the given byte slice with two
64-bit parts of 128-bit key: k0 and k1.

Note that 128-bit SipHash is considered experimental by SipHash authors at this time.

### func New(key []byte) hash.Hash64

New returns a new hash.Hash64 computing SipHash-2-4 with 16-byte key.

### func New128(key []byte) hash.Hash


Note that 16-byte output is considered experimental by SipHash authors at this time.

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Found in path(s):
* /opt/cola/permits/1157471902_1626446657.48/0/siphash-1-2-1-zip/siphash-1.2.1/README.md

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**go-colortext 1.0.0**

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1.418 containers-common v0.9.1

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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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1.423 lz4 1.8.3-1.el7

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1.426 hlandau-easymetric v1.0.0

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easymetric provides utilities for use with
[measurable](https://github.com/hlandau/configurable). It makes it easy to get started with measurable using familiar interfaces.

Import as: `gopkg.in/hlandau/easymetric.v1`

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The `adaptexpvar` package allows you to easily export measurables as expvars.

The `adaptprometheus` package allows you to easily export measurables as Prometheus gauges and counters.

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Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.
Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-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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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
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Library is used in it and that the Library and its use are covered by
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during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

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

b) 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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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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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.

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot 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.

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

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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
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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
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sections when you distribute them as separate works. But when you
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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
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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.

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

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

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

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

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

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

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

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

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

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

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

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1.430 systemd-shim 247.1

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# https://docs.fedoraproject.org/en-US/quick-docs/creating-rpm-packages/#con_rpm-spec-file-overview
# Fedora packaging guidelines:
# https://docs.fedoraproject.org/en-US/packaging-guidelines/

Name:
Version:
Release: 0% (?dist)
Summary:
License:
URL:
Source:
BuildRequires:
Requires:

%description

%prep
%setup -q

%build
%configure
make %{?_smp_mflags}

%install
%make_install

%files
%doc
%license

%changelog

Found in path(s):
* /opt/cola/permits/1157342134_1620877316.1/0/vim-vim-8-2-1687-1-el7-9-0atomix1-zip/vim-vim-8.2.1687-1.el7_9.0atomix1/spec-template.new
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1.435 pretty v1.0.0
1.435.1 Available under license:
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1.436 token-provider 2.0.0
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1.437 log4j-api 2.12.1
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1.438 spring-boot-actuator 2.1.8.RELEASE

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Found in path(s):
* /opt/cola/permits/1102171921_1603488116.78/0/spring-boot-actuator-2-1-8-release-sources-1-jar/META-INF/maven/org.springframework.boot/spring-boot-actuator/pom.xml

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* /opt/cola/permits/1102171921_1603488116.78/0/spring-boot-actuator-2-1-8-release-sources-1.jar/org/springframework/boot/actuate/endpoint/annotation/package-info.java
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1.439 smartmontools 6.2 4.el7

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1.441 gls v4.20.0+incompatible

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1.444 libassuan 2.1.0-3.el7_9.0atomix1

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1.449 utils v0.0.0-20191030222137-2b95a09bc58d

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1.450 x-oauth2 v0.0.0-20190226205417-e64efc72b421

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1.451 python 2.7.17-1.el7.0atomix2

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

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
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All Python releases are Open Source (see http://www.opensource.org for
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tomb - support for clean goroutine termination in Go.

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1.458 lib-pq v1.7.0

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// +build go1.10

package pq

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

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

// SetNoticeHandler sets the given notice handler on the given connection. A  
// runtime panic occurs if c is not a pq connection. A nil handler may be used
to unset it. This is rarely used directly, use ConnectorNoticeHandler and
ConnectorWithNoticeHandler instead.

// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
    c.(*conn).noticeHandler = handler
}

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

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

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

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

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

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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.

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

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

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

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

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

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

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

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

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

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

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

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

Preamble

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with the library, after making changes to the library and recompiling
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Most GNU software, including some libraries, is covered by the ordinary
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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
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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
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Note that it is possible for a library to be covered by the ordinary
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prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

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included without limitation in the term "modification").
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

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

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.

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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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Appendix: How to Apply These Terms to Your New Libraries

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ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
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1.462 javassist 3.25.0-GA

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* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/web/Viewer.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtPrimitiveType.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/MethodInfo.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/AccessorMaker.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Symbol.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Pair.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/ByteArrayClassPath.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/LocalVariableTypeAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/analysis/Executor.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/analysis/MultiArrayType.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Pair.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/SyntaxError.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/framedump.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/ByteStream.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/convert/TransformFieldAccess.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/web/BadHttpRequest.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/rmi/RemoteException.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode stackmap/BasicBlock.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/convert/TransformCall.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/SignatureAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/callback/Callback.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/reflect/CannotCreateException.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/JvstCodeGen.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/convert/TransformBefore.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/runtime/Cflow.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/BadBytecode.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/stackmap/TypeData.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/ExceptionsAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/AnnotationsAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/util/proxy/MethodFilter.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/DuplicateMemberException.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/NestHostAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/ScopedClassPool.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/ClassPoolTail.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/ClassPath.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/util/HotSwapper.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/convert/TransformNewClass.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/SourceFileAttribute.java
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* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
  jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
  jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
  jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
  jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
  jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
  jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
  jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
  jar/javassist/bytecode/annotation/LongMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
  jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
  jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
  jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
  jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
  jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
  jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
  jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
  jar/javassist/bytecode/annotation/DoubleMemberValue.java
1.463 olivere-elastic v5.0.80

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1.464 kubernetes-sigs-dashboard-metrics-scraper v1.0.7

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Protocol Buffers for Go with Gadgets

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

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tomb - support for clean goroutine termination in Go.

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* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3.jar/springfox/documentation/service/OAuth.java
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* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3.jar/springfox/documentation/service/BasicAuth.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3.jar/springfox/documentation/service/ResolvedMethodParameter.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3.jar/springfox/documentation/service/Parameter.java

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* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/ObjectVendorExtension.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/builders/ModelPropertyBuilder.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/AuthorizationCodeGrant.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/AuthorizationScope.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/CredentialsGrant.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/builders/DocumentationBuilder.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/builders/BuilderDefaults.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/builders/AuthorizationScopeBuilder.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/ApiInfo.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/builders/AuthorizationCodeGrantBuilder.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/CredentialsGrantBuilder.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/AllowableValues.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/schema/ModelReference.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/annotations/Cacheable.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/builders/ModelBuilder.java
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* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/builders/RequestHandlerSelectors.java
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  jar/springfox/documentation/schema/Example.java
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  jar/springfox/documentation/builders/ParameterMerger.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-
  jar/springfox/documentation/builders/ParameterBuilder.java
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* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-
  jar/springfox/documentation/service/ListVendorExtension.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-
  jar/springfox/documentation/builders/AlternateTypePropertyBuilder.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-
  jar/springfox/documentation/builders/AlternateTypeBuilder.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-
  jar/springfox/documentation/schema/AlternateTypeRuleConvention.java

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* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/Header.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/RequestHandlerKey.java

1.473 go.mongodb.org-mongo-driver v1.4.5
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1.474 openzipkin-contrib-zipkin-go-opentracing v0.3.5

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1.475 x-tools v0.0.0-20210106214847-113979e3529a

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package copyright

import (
    "os"
    "path/filepath"
    "strings"
    "testing"
)

func TestToolsCopyright(t *testing.T) {
    cwd, err := os.Getwd()
    if err != nil {
        t.Fatal(err)
    }
    tools := filepath.Dir(cwd)
    if !strings.HasSuffix(filepath.Base(tools), "tools") {
        t.Fatalf("current working directory is %s, expected tools", tools)
    }
    files, err := checkCopyright(tools)
    if err != nil {
        t.Fatal(err)
    }
    if len(files) > 0 {
        t.Errorf("The following files are missing copyright notices:
%s", strings.Join(files, "\n"))
    }
}

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package hooks

import (    "bytes"


func TestLicenses(t *testing.T) {
    // License text differs for older Go versions because staticcheck isn't
    // supported for those versions.
    testenv.NeedsGo1Point(t, 15)

    if runtime.GOOS != "linux" && runtime.GOOS != "darwin" {
        t.Skip("generating licenses only works on Unixes")
    }
    tmp, err := ioutil.TempFile("", "")
    if err != nil {
        t.Fatal(err)
    }
    tmp.Close()

    out, err := exec.Command("./gen-licenses.sh", tmp.Name()).CombinedOutput(); err != nil {
        t.Fatalf("generating licenses failed: %q, %v", out, err)
    }

    got, err := ioutil.ReadFile(tmp.Name())
    if err != nil {
        t.Fatal(err)
    }
    want, err := ioutil.ReadFile("licenses.go")
    if err != nil {
        t.Fatal(err)
    }
    if !bytes.Equal(got, want) {
        t.Error("combined license text needs updating. Run: go generate /internal/hooks` from the gopls module.")
    }

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    // Package copyright checks that files have the correct copyright notices.
    package copyright

    import (  
        "go/ast"  
        "go/parser"  
    )
func checkCopyright(dir string) ([]string, error) {
    var files []string
    err := filepath.Walk(dir, func(path string, info os.FileInfo, err error) error {
        if err != nil {
            return err
        }
        if info.IsDir() {
            // Skip directories like ".git".
            if strings.HasPrefix(info.Name(), ".") {
                return filepath.SkipDir
            }
            return nil
        }
        needsCopyright, err := checkFile(dir, path)
        if err != nil {
            return err
        }
        if needsCopyright {
            files = append(files, path)
        }
        return nil
    })
    return files, err
}

var copyrightRe = regexp.MustCompile(`Copyright \d{4} The Go Authors. All rights reserved. Use of this source code is governed by a BSD-style license that can be found in the LICENSE file.`)

func checkFile(toolsDir, filename string) (bool, error) {
    // Only check Go files.
    if !strings.HasSuffix(filename, "go") {
        return false, nil
    }
    // Don't check testdata files.
    normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
    if strings.Contains(normalized, "/testdata/"") {
        return false, nil
    }
    // goyacc is the only file with a different copyright header.
if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
    return false, nil
}

content, err := ioutil.ReadFile(filename)
if err != nil {
    return false, err
}

fset := token.NewFileSet()
parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
if err != nil {
    return false, err
}

// Don't require headers on generated files.
if isGenerated(fset, parsed) {
    return false, nil
}

shouldAddCopyright := true
for _, c := range parsed.Comments {
    // The copyright should appear before the package declaration.
    if c.Pos() > parsed.Package {
        break
    }

    if copyrightRe.MatchString(c.Text()) {
        shouldAddCopyright = false
        break
    }
}

return shouldAddCopyright, nil

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
// https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT.?
`)
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//go:generate ./gen-licenses.sh licenses.go
package hooks

const licensesText = `-- github.com/BurntSushi/toml COPYING --

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1.478 commons-cli 1.4

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1.479 go-openapi-errors v0.19.2

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1.480 python-requests 2.22.0

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1.481 x-oauth2 0-0.34

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* /opt/cola/permits/1199743907_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/lz4/LZ4FrameInputStream.java
* /opt/cola/permits/1199743907_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/lz4/LZ4FastDecompressor.java

1.483 system-stubs-core 1.1.0

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1.484 libffi 3.1 21.el8
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1.485 metrics 3.2.5

1.486 ingest-common 6.8.3

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1.487 webencodings 0.5.1

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Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/x_user_defined.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/tests.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/labels.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/__init__.py

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

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

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

setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    maintainer='Geoffrey Sneddon',
    maintainer_email='me@gsnedders.com',
    description='Character encoding aliases for legacy web content',
    long_description=LONG_DESCRIPTION,
classifiers=[
    'Development Status :: 4 - Beta',
    'Intended Audience :: Developers',
    'License :: OSI Approved :: BSD License',
    'Programming Language :: Python',
    'Programming Language :: Python :: 2',
    'Programming Language :: Python :: 2.6',
    'Programming Language :: Python :: 2.7',
    'Programming Language :: Python :: 3',
    'Programming Language :: Python :: 3.3',
    'Programming Language :: Python :: 3.4',
    'Programming Language :: Python :: 3.5',
    'Programming Language :: Python :: 3.6',
    'Programming Language :: Python :: Implementation :: CPython',
    'Programming Language :: Python :: Implementation :: PyPy',
    'Topic :: Internet :: WWW/HTTP',
],
packages=find_packages(),
)

Found in path(s):
  * /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/setup.py
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===

webencodings.mklabels
~~~~~~~~~~~~~~~~~~~~~~

Regenerate the webencodings.labels module.

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===

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

def assert_lower(string):
    assert string == string.lower()
    return string
def generate(url):
    parts = ["\
    "]

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

    Map encoding labels to their name.

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    ~~~~

    # XXX Do not edit!
    # This file is automatically generated by mklabels.py

    LABELS = {
        ""
        labels = [
            (repr(assert_label(label)).strip('u'),
             repr(encoding['name']).strip('u'))
            for category in json.loads(urlopen(url).read().decode('ascii'))
            for encoding in category['encodings']
            for label in encoding['labels']]
        max_len = max(len(label) for label, name in labels)
        parts.extend(
            ' %s:%s' % (label, ' ' * (max_len - len(label)), name)
            for label, name in labels)
        parts.append('}
        return ''.join(parts)

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

    Found in path(s):
    * /opt/cola/permits/1110813493_1606854649.94/0/webencodings-0.5.1-1.tar.gz/webencodings-0.5.1/webencodings/mklabels.py
    No license file was found, but licenses were detected in source scan.

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

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

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

In order to be compatible with legacy web content
when interpreting something like ```Content-Type: text/html; charset=latin1```
tools need to use a particular set of aliases for encoding labels
as well as some overriding rules.
For example, ```US-ASCII``` and ```iso-8859-1``` on the web are actually
aliases for ```windows-1252```, and an UTF-8 or UTF-16 BOM takes precedence
over any other encoding declaration.
The Encoding standard defines all such details so that implementations do
not have to reverse-engineer each other.

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

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

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1.tar-gz/webencodings-0.5.1/PKG-INFO
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5-1-1-tar-gz/webencodings-0.5.1/PKG-INFO
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5-1-1-tar-gz/webencodings-0.5.1/webencodings.egg-info/PKG-INFO

---

Open Source Used In APIC-SE-BATMAN 2.1.1d 6133
python-webencodings

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

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

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

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

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

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

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* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1-1.tar.gz/webencodings-0.5.1/README.rst

1.488 audit 3.0-2ubuntu1
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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

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

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

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

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

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

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a
Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation 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
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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
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.

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

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

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

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

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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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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
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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
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sections when you distribute them as separate works. But when you
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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
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In addition, mere aggregation of another work not 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,
northern 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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uses the Library", as object code and/or source code, so that the
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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
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* org.eclipse.jetty.orbit:javax.mail.glassfish

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

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* java.sun.security.ssl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
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org.apache.tomcat:tomcat-jsp-api
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org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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1.501 apr 1.6.5

1.502 x-time-rate v0.0.0-20190921001708-c4c64cad1fd0

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1.503 honnef-staticcheck v0.3.0-0.dev

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

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1.504 nginx 1.18.0-2.el7.ngx.0atomix1

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* Optimised ANSI C code for the Rijndael cipher (now AES)
* *
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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A "covered work" means either the unmodified Program or a work based on the Program.

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

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

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

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

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1.518 commons-lang3 2.6

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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/cache/Striped64.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/cache/LongAdder.java

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jar/com/google/common/collection/RangeMap.java
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jar/com/google/common/reflect/MutableTypeToInstanceMap.java
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jar/com/google/common/collection/FilteredMultimap.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/util/concurrent/RateLimiter.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/io/CharSource.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/ForwardingImmutableList.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/DescendingImmutableSortedSet.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/reflect/Parameter.java
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  jar/com/google/common/collection/SingletonImmutableSet.java
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  jar/com/google/common/collection/HashMultimap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
  jar/com/google/common/eventbus/AllowConcurrentEvents.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
  jar/com/google/common/collection/ExplicitOrdering.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
  jar/com/google/common/collection/ListMultimap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
  jar/com/google/common/collection/BiMap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
  */
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/TreeMultiset.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/ComparatorOrdering.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/RegularImmutableSet.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/primitives/Primitives.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/ReverseNaturalOrdering.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/InputSupplier.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/Interner.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/eventbus/AnnotatedSubscriberFinder.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/util/concurrent/AbstractFuture.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/Multimap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/ReverseOrdering.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/Multisets.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/UsingToStringOrdering.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/hash/AbstractCompositeHashFunction.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/cache/ForwardingCache.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/cache/RemovalListeners.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/util/concurrent/AbstractScheduledService.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/Count.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/ImmutableSortedMultiset.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/AbstractRangeSet.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/ForwardingListMultimap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/RowSortedTable.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/AbstractSequentialIterator.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/SortedMapDifference.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/ForwardingSetMultimap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/base/Equivalence.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/base/Ascii.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/util/concurrent/UncaughtExceptionHandlers.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/MinMaxPriorityQueue.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/UnmodifiableListIterator.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/UnmodifiableSortedSet.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/EmptyImmutableSortedMultiset.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/EmptyImmutableSortedSetWithEntryComparator.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/ImmutableSortedSetWithEntryComparator.java
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jar/com/google/common/collection/AbstractSortedMultiset.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/SparseImmutableTable.java
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* org.eclipse.jetty.orbit:javax.security.auth.message

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

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

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Oracle OpenJDK

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* java.sun.security.ssl

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

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OW2

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

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Apache

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

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

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nickc@redhat.com and I'll correct the situation.

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Open Source Used In APIC-SE-BATMAN 2.1.1d 6515
Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m68034 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

Note that it is possible for a library to be covered by the ordinary
General Public License rather than by this special one.

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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 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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11. If, as a consequence of a court judgment or allegation of patent 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.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

<one line to give the library's name and a brief idea of what it does.>
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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.

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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!

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL.  It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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**1.542 x-sys v0.0.0-20210414055047-fe65e336abe0**

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1.543 wget 1.14-18.el7_9.1.0atomix1

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

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

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

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

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Oracle OpenJDK

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* java.sun.security.ssl

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

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

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

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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--
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```
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1.566 perl-module-load 0.32-395.el8

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=head1 NAME

Module::Load - runtime require of both modules and files

=head1 SYNOPSIS

use Module::Load;

my $module = 'Data::Dumper';

load Data::Dumper;  # loads that module, but not import any functions
    # -> cannot use 'Dumper' function

load 'Data::Dumper';  # ditto
load $module       # tritto

autoload Data::Dumper; # loads that module and imports the default functions
    # -> can use 'Dumper' function

my $script = 'some/script.pl'
load $script;
load 'some/script.pl'; # use quotes because of punctuations

load thing;          # try 'thing' first, then 'thing.pm'

load CGI, ':all';    # like 'use CGI qw[:standard]'

=head1 DESCRIPTION

C<Module::Load> eliminates the need to know whether you are trying to require either a file or a module.
If you consult `perldoc -f require` you will see that `require` will behave differently when given a bareword or a string.

In the case of a string, `require` assumes you are wanting to load a file. But in the case of a bareword, it assumes you mean a module.

This gives nasty overhead when you are trying to dynamically require modules at runtime, since you will need to change the module notation (e.g., `Acme::Comment`) to a file notation fitting the particular platform you are on.

`Module::Load` eliminates the need for this overhead and will just DWYM.

=head2 Difference between `load` and `autoload`

`Module::Load` imports the two functions - `load` and `autoload`

`autoload` imports the default functions automatically, but `load` do not import any functions.

`autoload` is usable under `BEGIN{}`.

Both the functions can import the functions that are specified.

Following codes are same.

```perl
load File::Spec::Functions, qw/splitpath/;

autoload File::Spec::Functions, qw/splitpath/;
```

=head1 FUNCTIONS

=over 4

=item load

Loads a specified module.

See L</Rules> for detailed loading rule.

=item autoload

Loads a specified module and imports the default functions.

Except importing the functions, 'autoload' is same as 'load'.

**load_remote**

 Loads a specified module to the specified package.

```perl
use Module::Load 'load_remote';

my $pkg = 'Other::Package';

load_remote $pkg, 'Data::Dumper'; # load a module to 'Other::Package'
    # but do not import 'Dumper' function
```

A module for loading must be quoted.

Except specifying the package and quoting module name, 'load_remote' is same as 'load'.

**autoload_remote**

 Loads a specified module and imports the default functions to the specified package.

```perl
use Module::Load 'autoload_remote';

my $pkg = 'Other::Package';

autoload_remote $pkg, 'Data::Dumper'; # load a module to 'Other::Package'
    # and imports 'Dumper' function
```

A module for loading must be quoted.

Except specifying the package and quoting module name, 'autoload_remote' is same as 'load_remote'.

=back

=head1 Rules

All functions have the following rules to decide what it thinks you want:

=over 4

=item *

If the argument has any characters in it other than those matching `\w`, `:` or `'`, it must be a file

=item *


If the argument matches only C\<\w\>\>, it must be a module

=item *

If the argument matches only C\<\w\>, it could either be a module or a file. We will try to find C\<\file.pm\> first in C\<@INC\> and if that fails, we will try to find C\<\file\> in @INC. If both fail, we die with the respective error messages.

=back

=head1 IMPORTS THE FUNCTIONS

'load' and 'autoload' are imported by default, but 'load_remote' and 'autoload_remote' are not imported.

To use 'load_remote' or 'autoload_remote', specify at 'use'.

=over 4

=item "load","autoload","load_remote","autoload_remote"

Imports the selected functions.

# imports 'load' and 'autoload' (default)
use Module::Load;

# imports 'autoload' only
use Module::Load 'autoload';

# imports 'autoload' and 'autoload_remote', but don't import 'load';
use Module::Load qw/autoload autoload_remote/;

=item 'all'

Imports all the functions.

use Module::Load 'all'; # imports load, autoload, load_remote, autoload_remote

=item "','none',undef

Not import any functions (C<load> and C<autoload> are not imported).

use Module::Load ";

use Module::Load 'none';

use Module::Load undef;
=head1 Caveats

Because of a bug in perl (#19213), at least in version 5.6.1, we have to hardcode the path separator for a require on Win32 to be C</>, like on Unix rather than the Win32 C\\. Otherwise perl will not read its own %INC accurately double load files if they are required again, or in the worst case, core dump.

C<Module::Load> cannot do implicit imports, only explicit imports. (in other words, you always have to specify explicitly what you wish to import from a module, even if the functions are in that modules C<@EXPORT>)

=head1 ACKNOWLEDGEMENTS

Thanks to Jonas B. Nielsen for making explicit imports work.

=head1 BUG REPORTS

Please report bugs or other issues to E<lt>bug-module-load@rt.cpan.org<gt>.

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This module by Jos Boumans E<lt>kane@cpan.orgE<gt>.

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Found in path(s):
  * /opt/cola/permits/1139282303_1614507747.79/0/perl-Module-Load-0.32-395.el8-1.src.rpm-cosi-expand-archive-O6I1w6vM/Module-Load-0.32.tar.gz-cosi-expand-archive-dp5tEpz/Module-Load-0.32/lib/Module/Load.pm

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---
abstract: 'Load modules in a DWIM style'
author:
  - Jos Boumans <kane[at]cpan.org>
build_requires:
  Test::More: 0.94
configure_requires:
  ExtUtils::MakeMaker: 0
This is the README file for Module::Load, a perl module for simple loading of modules in a DWIM-style.

Please refer to 'perldoc Module::Load' after installation for details.

# Description

Module::Load

Allows for generic loading of modules and files. Simply give it the name of a module or file and it will Do What You Mean (tm).

# Installation

Module::Load follows the standard perl module install process;

perl Makefile.PL
make
make test
make install

The module uses no C or XS parts, so no c-compiler is required.
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1.567 selinux 2.3-2

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1.570 opensaml-soap-api 3.3.0

1.571 netbase 5.3

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1.578 go-openapi-jsonreference v0.19.5

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1.579 swaggo-http-swagger v0.0.0-20190614090009-c2865af9083e

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1.580 ncurses 6.1 7.20180224.el8

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1.581 java-support 7.3.0

1.582 dbus-glib 0.100-7.el7

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1.583.1 Available under license :

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<table>
<thead>
<tr>
<th>Found in path(s):</th>
</tr>
</thead>
<tbody>
<tr>
<td>*/opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/ChangeLog</td>
</tr>
</tbody>
</table>

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```perl
sub dump { 
    
    # JUNK:
    
    sub _esc { 
        return " unless @_; 
        my @out; 
        foreach my $in (@_) { 
            push @out, "" . $in . ""; 
        } 
        return join ', ', @out; 
    } 

    __END__

    =head1 NAME

    Pod::Simple::PullParserToken -- tokens from Pod::Simple::PullParser

```
=head1 SYNOPSIS

Given a $parser that’s an object of class Pod::Simple::PullParser
(or a subclass)...

while(my $token = $parser->get_token) {
  $DEBUG and print STDERR "Token: ", $token->dump, "\n";
  if($token->is_start) {
    ...access $token->tagname, $token->attr, etc...
  } elsif($token->is_text) {
    ...access $token->text, $token->text_r, etc...
  } elsif($token->is_end) {
    ...access $token->tagname...
  }
}

(Also see L<Pod::Simple::PullParser>)

=head1 DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser>, you should
get an object of a subclass of Pod::Simple::PullParserToken.

Subclasses will add methods, and will also inherit these methods:

=over

=item $token->type

This returns the type of the token. This will be either the string
"start", the string "text", or the string "end".

Once you know what the type of an object is, you then know what
subclass it belongs to, and therefore what methods it supports.

Yes, you could probably do the same thing with code like
$token->isa('Pod::Simple::PullParserEndToken'), but that’s not so
pretty as using just $token->type, or even the following shortcuts:

=item $token->is_start

This is a shortcut for C<< $token->type() eq "start" >>

=item $token->is_text
This is a shortcut for `C<< $token->type() eq "text" >>`

```perl
=item $token->is_end
```

This is a shortcut for `C<< $token->type() eq "end" >>`

```perl
=item $token->dump
```

This returns a handy stringified value of this object. This is useful for debugging, as in:

```perl
while(my $token = $parser->get_token) {
    $DEBUG and print STDERR "Token: ", $token->dump, "\n";
    ...
}
```

=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

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

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=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<dwheeler@cpan.org>

=back

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/PullParserToken.pm
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=head1 NAME

Pod::Simple::Search - find POD documents in directory trees

=head1 SYNOPSIS

use Pod::Simple::Search;
my $name2path = Pod::Simple::Search->new->limit_glob('LWP::*')->survey;
print "Looky see what I found: ",
join(’,’, sort keys %$name2path), "\n";

print "LWPUA 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:

my $search = Pod::Simple::Search->new;
$search->inc(0);
$search->verbose(1);
$search->callback(&blab);
my $name2path = $search->survey(@there);

=over

=item $search->inc( I<true-or-false> )

This attribute, if set to a true value, means that searches should implicitly add perl's I<$@INC> paths. This automatically considers paths specified in the C<PERL5LIB> environment.
as this is prepended to `@INC` by the Perl interpreter itself. This attribute's default value is `TRUE`. If you want to search only specific directories, set `$self->inc(0)` before calling $inc->survey or $inc->find.

```
=items $search->verbose( I<nonnegative-number> );
```

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.)

```
=items $search->limit_glob( I<some-glob-string> );
```

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".)

```
=items $search->callback( I<\&some_routine> );
```

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: `"/etc/perljunk/File/Crunk.pm", "File::Crunk"`) would be in `@_`.)

The callback routine's return value is not used for anything.

This attribute's default value is false, meaning that no callback is called.

```
=items $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 not match the current Perl interpreter's version ID, suppressing $site_perl as a module hierarchy name, etc.

=item $search->recurse( 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( 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( 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.

=item $search->dir_prefix( some-string-value );

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 `reach` method and a `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 `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 `reach` and `done` methods are called like this:

```perl
# 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.

```perl
$name2path = $self->name2path;
```

This attribute is not a search parameter, but is used to report the result of `survey` method, as discussed in the next section.

```perl
$path2name = $self->path2name;
```

This attribute is not a search parameter, but is used to report the result of `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.

```perl
$searich->survey( @directories )
```

The method `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 $search->simplify_name( $str )

The method B<simplify_name> is equivalent to B<basename>, but also strips Perl-like extensions (.pm, .pl, .pod) and extensions like F<.bat>, F<.cmd> on Win32 and OS/2, or F<.com> on VMS, respectively.

=head2 $search->find( $pod )

=head2 $search->find( $pod, @search_dirs )

Returns the location of a Pod file, given a Pod/module/script name (like "Foo::Bar" or "perlvar" or "perldoc"), and an idea of what files/directories to look in.

If any of the given search directories contains a F<pod/> subdirectory, then it is searched. (That's how we manage to find F<perlfunc>, for example, which is usually in F<pod/perlfunc> in most Perl dists.)

If no such Pod file is found, this method returns undef.

If any of the given search directories contains a F<pod/> subdirectory, then it is searched. (That's how we manage to find F<perlfunc>, for example, which is usually in F<pod/perlfunc> in most Perl dists.)

The C<verbose> and C<inc> attributes influence the behavior of this search; notably, C<inc>, if true, adds @INC I<and also $Config::Config{'scriptdir'}> to the list of directories to search.
It is common to simply say `C<$filename = Pod::Simple::Search->new
->find("perlvar")>>` so that just the @INC (well, and scriptdir)
directories are searched. (This happens because the `C<inc>
attribute is true by default.)

Calling `Pod::Simple::Search->find(...)` is short for
`Pod::Simple::Search->new->find(...)`. That is, a throwaway object
with default attribute values is used.

=head2 `C<$self->contains_pod($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.

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> 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:
Allison Randal C<allison@perl.org>

Hans Dieter Pearcey C<hdp@cpan.org>

David E. Wheeler C.dwheeler@cpan.org

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib.Pod/Simple/Search.pm

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

NAME

Pod::Simple::XMLOutStream -- turn Pod into XML

SYNOPSIS

perl -MPod::Simple::XMLOutStream -e "exit Pod::Simple::XMLOutStream->filter(shift)->any_errata_seen" thingy.pod

DESCRIPTION

Pod::Simple::XMLOutStream is a subclass of Pod::Simple that parses Pod and turns it into XML.

Pod::Simple::XMLOutStream inherits methods from Pod::Simple.

SEE ALSO

Pod::Simple::DumpAsXML is rather like this class; see its documentation for a discussion of the differences.

Pod::Simple, Pod::Simple::DumpAsXML, Pod::SAX

Pod::Simple::Subclassing

The older (and possibly obsolete) libraries Pod::PXML, Pod::XML
ABOUT EXTENDING POD

TODO: An example or two of `extend`, then point to Pod::Simple::Subclassing

SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Text>, L<Pod::Spell>

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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AUTHOR

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over

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David E. Wheeler <d wheeler@ cpan.org>
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/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::PullParserTextToken -- text-tokens from Pod::Simple::PullParser

=head1 SYNOPSIS
(See L<Pod::Simple::PullParser>)

=head1 DESCRIPTION
When you do $parser->get_token on a L<Pod::Simple::PullParser>, you might get an object of this class.

This is a subclass of L<Pod::Simple::PullParserToken> and inherits all its methods, and adds these methods:

=over
=item $token->text
This returns the text that this token holds. For example, parsing 
CZ<<foo>> will return a C start-token, a text-token, and a C end-token. And if you want to get the "foo" out of the text-token, call C<< $token->text >>

=item $token->text(I<somestring>)
This changes the string that this token holds. You probably won't need to do this.

=item $token->text_r()
This returns a scalar reference to the string that this token holds. This can be useful if you don't want to memory-copy the potentially large text value (well, as large as a paragraph or a verbatim block) as calling $token->text would do.

Or, if you want to alter the value, you can even do things like this:
for ( $token->text_r ) { # Aliases it with $_. !!

s/ The / the /g; # just for example

if( 'A' eq chr(65) ) { # (if in an ASCII world)
   tr\xA0/ /;
   tr\xAD//d;
}

...or however you want to alter the value...
(Note that starting with Perl v5.8, you can use, e.g.,

    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

C<
Pod::Simple::PullParserTextToken->new( I<text> )
>>

=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclasing>

=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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=over
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=item * Hans Dieter Pearcey C<hdp@cpan.org>
=item * David E. Wheeler C<d wheeler@cpan.org>
=back
=cut

NAME

perlfaq3 - Programming Tools ($Revision: 1.38 $, $Date: 1999/05/23 16:08:30 $)

DESCRIPTION

This section of the FAQ answers questions related to programmer tools and programming support.

How do I do (anything)?

Have you looked at CPAN (see perlfaq2)? The chances are that someone has already written a module that can solve your problem. Have you read the appropriate man pages? Here's a brief index:

Basics perldata, perlvar, perlsyn, perlop, perlsub
Execution perlrun, perldebug
Functions perlfunc
Objects perlref, perlmod, perlobj, perltie
Data Structures perlref, perllol, perldsc
Modules perlmod, perlmodlib, perlsub
Regexes perlr, perlfunc, perlop, perllocale
Moving to perl5 perltrap, perl
Linking w/C perlxstut, perlxs, perlc all, perl guts, perlembed
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
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. perlish 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.

```perl
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
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...
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}
    map! T

Now put that in your .exrc file (replacing the caret characters with control characters) and away you go. In insert mode, ^T is for indenting, ^D is for undenting, and ^O is for blockdenting-- as it were. If you haven't used the last one, you're missing a lot. A more complete example, with comments, can be found at http://www.perl.com/CPAN-local/authors/id/TOMC/scripts/toms.exrc.gz

If you are used to using the vgrind program for printing out nice code to a laser printer, you can take a stab at this using http://www.perl.com/CPAN/doc/misc/tips/working.vgrind.entry, but the results are not particularly satisfying for sophisticated code.

The a2ps at http://www.infres.enst.fr/~Edemaille/a2ps/ does lots of things related to generating nicely printed output of documents.

Is there a ctags for Perl?

There's a simple one at http://www.perl.com/CPAN/authors/id/TOMC/scripts/ptags.gz which may do the trick. And if not, it's easy to hack into what you want.

Is there an IDE or Windows Perl Editor?

Perl programs are just plain text, so any editor will do.

If you're on Unix, you already have an IDE--Unix itself. The UNIX philosophy is the philosophy of several small tools that each do one thing and do it well. It's like a carpenter's toolbox.

If you want a Windows IDE, check the following:

    CodeMagicCD
    http://www.codemagicccd.com/

    Komodo
    ActiveState's cross-platform, multi-language IDE has Perl support, including a regular expression debugger and remote debugging (http://www.ActiveState.com/Products/Komodo/index.html). (Visual Perl, a Visual Studio.NET plug-in is currently (early 2001) in beta (http://www.ActiveState.com/Products/VisualPerl/index.html)).

The Object System
(http://www.castlelink.co.uk/object_system/) is a Perl web applications development IDE.

PerlBuilder
(http://www.solutionsoft.com/perl.htm) is an integrated development environment for Windows that supports Perl development.

Perl code magic
(http://www.petes-place.com/codemagic.html).
visiPerl+
http://helpconsulting.net/visiperl/, from Help Consulting.
For editors: if you're on Unix you probably have vi or a vi clone already, and possibly an emacs too, so you may not need to download anything. In any emacs the cperl-mode (M-x cperl-mode) gives you perhaps the best available Perl editing mode in any editor.
For Windows editors: you can download an Emacs
GNU Emacs
http://www.gnu.org/software/emacs/windows/ntemacs.html
MicroEMACS
http://members.nbci.com/uemacs/
XEmacs
http://www.xemacs.org/Download/index.html
or a vi clone such as
Elvis
Vile
http://vile.cx/
Vim
http://www.vim.org/
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/
MultiEdit
SlickEdit
http://www.slickedit.com/
There is also a toyedit Text widget based editor written in Perl that is distributed with the Tk module on CPAN. The ptkdb (http://world.std.com/~aep/ptkdb/) is a Perl/tk based debugger that acts as a development environment of sorts. Perl Composer (http://perlcomposer.sourceforge.net/vperl.html) is an IDE for Perl/Tk GUI creation.
In addition to an editor/IDE you might be interested in a more powerful shell environment for Win32. Your options include
Bash
from the Cygwin package (http://sources.redhat.com/cygwin/)
Ksh
from the MKS Toolkit (http://www.mks.com/), or the Bourne shell of the U/WIN environment (http://www.research.att.com/sw/tools/uwin/)
Tcsh
Zsh
ftp://ftp.blarg.net/users/amol/zsh/, see also http://www.zsh.org/
MKS and U/WIN are commercial (U/WIN is free for educational and research purposes). Cygwin is covered by the
GNU Public License (but that shouldn't matter for Perl use). The Cygwin, MKS, and U/WIN all contain (in addition to the shells) a comprehensive set of standard UNIX toolkit utilities.

If you're transferring text files between Unix and Windows using FTP be sure to transfer them in ASCII mode so the ends of lines are appropriately converted.

On Mac OS the MacPerl Application comes with a simple 32k text editor that behaves like a rudimentary IDE. In contrast to the MacPerl Application the MPW Perl tool can make use of the MPW Shell itself as an editor (with no 32k limit).

BBEdit and BBEdit Lite are text editors for Mac OS that have a Perl sensitivity mode (http://web.barebones.com/).

Alpha is an editor, written and extensible in Tcl, that nonetheless has built in support for several popular markup and programming languages including Perl and HTML (http://alpha.olm.net/).

Pepper and Pe are programming language sensitive text editors for Mac OS X and BeOS respectively (http://www.hekkelman.com/).

Where can I get Perl macros for vi?

For a complete version of Tom Christiansen's vi configuration file, see http://www.perl.com/CPAN/authors/Tom_Christiansen/scripts/toms.exrc.gz, the standard benchmark file for vi emulators. The file runs best with nvi, the current version of vi out of Berkeley, which incidentally can be built with an embedded Perl interpreter--see http://www.perl.com/CPAN/src/misc.

Where can I get perl-mode for emacs?

Since Emacs version 19 patchlevel 22 or so, there have been both a perl-mode.el and support for the Perl debugger built in. These should come with the standard Emacs 19 distribution.

In the Perl source directory, you'll find a directory called "emacs", which contains a cperl-mode that color-codes keywords, provides context-sensitive help, and other nifty things.

Note that the perl-mode of emacs will have fits with "main'foo" (single quote), and mess up the indentation and highlighting. You are probably using "main::foo" in new Perl code anyway, so this shouldn't be an issue.

How can I use curses with Perl?

The Curses module from CPAN provides a dynamically loadable object module interface to a curses library. A small demo can be found at the directory http://www.perl.com/CPAN/authors/Tom_Christiansen/scripts/rep; this program repeats a command and updates the screen as needed, rendering rep ps axu similar to top.

How can I use X or Tk with Perl?

Tk is a completely Perl-based, object-oriented interface to the Tk toolkit that doesn't force you to use Tcl just to get at Tk. Sx is an interface to the Athena Widget set. Both are available from CPAN. See the directory http://www.perl.com/CPAN/modules/by-category/08_User_Interfaces/


How can I generate simple menus without using CGI or Tk?

The http://www.perl.com/CPAN/authors/id/SKUNZ/perlmenu.v4.0.tar.gz module, which is curses-based, can help with this.

What is undump?

See the next question on "How can I make my Perl program run faster?"

How can I make my Perl program run faster?

The best way to do this is to come up with a better algorithm. This can often make a dramatic difference. Jon Bentley's book "Programming Pearls" (that's not a misspelling!) has some good tips on optimization, too. Advice on benchmarking boils down to: benchmark and profile to make sure you're optimizing the right part, look for better algorithms instead of microtuning your code, and when all else fails consider just buying faster hardware.

A different approach is to autoload seldom-used Perl code. See the AutoSplit and AutoLoader modules in the
standard distribution for that. Or you could locate the bottleneck and think about writing just that part in C, the way
we used to take bottlenecks in C code and write them in assembler. Similar to rewriting in C, modules that have
critical sections can be written in C (for instance, the PDL module from CPAN).
In some cases, it may be worth it to use the backend compiler to produce byte code (saving compilation time) or
compile into C, which will certainly save compilation time and sometimes a small amount (but not much) execution
time. See the question about compiling your Perl programs for more on the compiler—the wins aren't as obvious as
you'd hope.
If you're currently linking your perl executable to a shared libc.so, you can often gain a 10-25% performance benefit
by rebuilding it to link with a static libc.a instead. This will make a bigger perl executable, but your Perl programs
(and programmers) may thank you for it. See the INSTALL file in the source distribution for more information.
Unsubstantiated reports allege that Perl interpreters that use sfio outperform those that don't (for I/O intensive
applications). To try this, see the INSTALL file in the source distribution, especially the "Selecting File I/O
mechanisms" section.
The undump program was an old attempt to speed up your Perl program by storing the already-compiled form to
disk. This is no longer a viable option, as it only worked on a few architectures, and wasn't a good solution anyway.
How can I make my Perl program take less memory?
When it comes to time-space tradeoffs, Perl nearly always prefers to throw memory at a problem. Scalars in Perl use
more memory than strings in C, arrays take more than that, and hashes use even more. While there's still a lot to be
done, recent releases have been addressing these issues. For example, as of 5.004, duplicate hash keys are shared
amongst all hashes using them, so require no reallocation.
In some cases, using substr() or vec() to simulate arrays can be highly beneficial. For example, an array of a
thousand booleans will take at least 20,000 bytes of space, but it can be turned into one 125-byte bit vector—a
considerable memory savings. The standard Tie::SubstrHash module can also help for certain types of data structure.
If you're working with specialist data structures (matrices, for instance) modules that implement these in C may use
less memory than equivalent Perl modules.
Another thing to try is learning whether your Perl was compiled with the system malloc or with Perl's builtin malloc.
Whichever one it is, try using the other one and see whether this makes a difference. Information about malloc is in
the INSTALL file in the source distribution. You can find out whether you are using perl's malloc by typing perl -V:
useymalloc.
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";
How can I free an array or hash so my program shrinks?
You can't. On most operating systems, memory allocated to a program can never be returned to the system. That's
why long-running programs sometimes re-exec themselves. Some operating systems (notably, FreeBSD and Linux)
allegedly reclaim large chunks of memory that is no longer used, but it doesn't appear to happen with Perl (yet). The
Mac appears to be the only platform that will reliably (albeit, slowly) return memory to the OS.
We've had reports that on Linux (Redhat 5.1) on Intel, undef $scalar will return memory to the system, while on
Solaris 2.6 it won't. In general, try it yourself and see.
However, judicious use of my() on your variables will help make sure that they go out of scope so that Perl can free
up that space for use in other parts of your program. A global variable, of course, never goes out of scope, so you
can't get its space automatically reclaimed, although undef()ing and/or delete()ing it will achieve the same effect. In
general, memory allocation and de-allocation isn't something you can or should be worrying about much in Perl, but
even this capability (preallocation of data types) is in the works.

How can I make my CGI script more efficient?

Beyond the normal measures described to make general Perl programs faster or smaller, a CGI program has
additional issues. It may be run several times per second. Given that each time it runs it will need to be re-compiled
and will often allocate a megabyte or more of system memory, this can be a killer. Compiling into C isn't going to
help you because the process start-up overhead is where the bottleneck is.

There are two popular ways to avoid this overhead. One solution involves running the Apache HTTP server
(available from http://www.apache.org/) with either of the mod_perl or mod_fastcgi plugin modules.
With mod_perl and the Apache::Registry module (distributed with mod_perl), httpd will run with an embedded Perl
interpreter which pre-compiles your script and then executes it within the same address space without forking. The
Apache extension also gives Perl access to the internal server API, so modules written in Perl can do just about
anything a module written in C can. For more on mod_perl, see http://perl.apache.org/
With the FCGI module (from CPAN) and the mod_fastcgi module (available from http://www.fastcgi.com/) each of
your Perl programs becomes a permanent CGI daemon process.

Both of these solutions can have far-reaching effects on your system and on the way you write your CGI programs,
so investigate them with care.


A non-free, commercial product, ``The Velocity Engine for Perl'', (http://www.binevolve.com/ or
http://www.binevolve.com/velocigen/ ) might also be worth looking at. It will allow you to increase the performance
of your Perl programs, running programs up to 25 times faster than normal CGI Perl when running in persistent Perl
mode or 4 to 5 times faster without any modification to your existing CGI programs. Fully functional evaluation
copies are available from the web site.

How can I hide the source for my Perl program?

Delete it. :-) Seriously, there are a number of (mostly unsatisfactory) solutions with varying levels of ``security''.
First of all, however, you can't take away read permission, because the source code has to be readable in order to be
compiled and interpreted. (That doesn't mean that a CGI script's source is readable by people on the web, though--
only by people with access to the filesystem.) So you have to leave the permissions at the socially friendly 0755
level.

Some people regard this as a security problem. If your program does insecure things and relies on people not
knowing how to exploit those insecurities, it is not secure. It is often possible for someone to determine the insecure
things and exploit them without viewing the source. Security through obscurity, the name for hiding your bugs
instead of fixing them, is little security indeed.

You can try using encryption via source filters (Filter::* from CPAN), but any decent programmer will be able to
decrypt it. You can try using the byte code compiler and interpreter described below, but the curious might still be
able to de-compile it. You can try using the native-code compiler described below, but crackers might be able to
disassemble it. These pose varying degrees of difficulty to people wanting to get at your code, but none can
definitively conceal it (true of every language, not just Perl).

If you're concerned about people profiting from your code, then the bottom line is that nothing but a restrictive
license will give you legal security. License your software and pepper it with threatening statements like ```This is
unpublished proprietary software of XYZ Corp. Your access to it does not give you permission to use it blah blah
blah.” We are not lawyers, of course, so you should see a lawyer if you want to be sure your license's wording will
stand up in court.

How can I compile my Perl program into byte code or C?

Malcolm Beattie has written a multifunction backend compiler, available from CPAN, that can do both these things.
It is included in the perl5.005 release, but is still considered experimental. This means it's fun to play with if you're a
Merely compiling into C does not in and of itself guarantee that your code will run very much faster. That's because except for lucky cases where a lot of native type inferencing is possible, the normal Perl run-time system is still present and so your program will take just as long to run and be just as big. Most programs save little more than compilation time, leaving execution no more than 10-30% faster. A few rare programs actually benefit significantly (even running several times faster), but this takes some tweaking of your code.

You'll probably be astonished to learn that the current version of the compiler generates a compiled form of your script whose executable is just as big as the original perl executable, and then some. That's because as currently written, all programs are prepared for a full eval() statement. You can tremendously reduce this cost by building a shared libperl.so library and linking against that. See the INSTALL podfile in the Perl source distribution for details. If you link your main perl binary with this, it will make it minuscule. For example, on one author's system, /usr/bin/perl is only 11k in size!

In general, the compiler will do nothing to make a Perl program smaller, faster, more portable, or more secure. In fact, it can make your situation worse. The executable will be bigger, your VM system may take longer to load the whole thing, the binary is fragile and hard to fix, and compilation never stopped software piracy in the form of crackers, viruses, or bootleggers. The real advantage of the compiler is merely packaging, and once you see the size of what it makes (well, unless you use a shared libperl.so), you'll probably want a complete Perl install anyway.

How can I compile Perl into Java?

You can also integrate Java and Perl with the Perl Resource Kit from O'Reilly and Associates. See http://www.oreilly.com/catalog/prkunix/.

Perl 5.6 comes with Java Perl Lingo, or JPL. JPL, still in development, allows Perl code to be called from Java. See jpl/README in the Perl source tree.

How can I get #!perl to work on [MS-DOS,NT,...]?

For OS/2 just use

```
  extproc perl -S -your_switches
```

as the first line in *.cmd file (-S due to a bug in cmd.exe's `extproc' handling). For DOS one should first invent a corresponding batch file and codify it in ALTERNATIVE_SHEBANG (see the INSTALL file in the source distribution for more information).

The Win95/NT installation, when using the ActiveState port of Perl, will modify the Registry to associate the .pl extension with the perl interpreter. If you install another port, perhaps even building your own Win95/NT Perl from the standard sources by using a Windows port of gcc (e.g., with cygwin or mingw32), then you'll have to modify the Registry yourself. In addition to associating .pl with the interpreter, NT people can use: SET PATHEXT=%PATHEXT%;.PL to let them run the program install-linux.pl merely by typing install-linux.

Macintosh Perl programs will have the appropriate Creator and Type, so that double-clicking them will invoke the Perl application.

IMPORTANT!: Whatever you do, PLEASE don't get frustrated, and just throw the perl interpreter into your cgi-bin directory, in order to get your programs working for a web server. This is an EXTREMELY big security risk. Take the time to figure out how to do it correctly.

Can I write useful Perl programs on the command line?

Yes. Read perlrun for more information. Some examples follow. (These assume standard Unix shell quoting rules.)

```perl
# 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\*/.*?\*/\} \}g' foo.c

# make file a month younger than today, defeating reaper daemons
perl -e "$X=24*60*60; utime(time(),time() + 30 * $X,@ARGV)" *
```
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 write.

There is no general solution to all of this. It is a mess, pure and simple. Sucks to be away from Unix, huh? :-)

[Some of this answer was contributed by Kenneth Albanowski.]

Where can I learn about CGI or Web programming in Perl?
For modules, get the CGI or LWP modules from CPAN. For textbooks, see the two especially dedicated to web stuff in the question on books. For problems and questions related to the web, like ``Why do I get 500 Errors'' or ``Why doesn't it run from the browser right when it runs fine on the command line'', see these sources:

WWW Security FAQ
http://www.w3.org/Security/Faq/

Web FAQ
http://www.boutell.com/faq/

CGI FAQ
http://www.webthing.com/tutorials/cgifaq.html

HTTP Spec
http://www.w3.org/pub/WWW/Protocols/HTTP/

HTML Spec
http://www.w3.org/TR/REC-html40/

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 perlx, xsubpp, and perlguts. If you want to call Perl from C, then read perlembed, 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 perlembed, perlguts, etc., but I can't embed perl in my C program; what am I doing wrong?
Download the ExtUtils::Embed kit from CPAN and run `make test'. If the tests pass, read the pods again and again and again. If they fail, see perlbug and send a bug report with the output of make test TEST_VERBOSE=1 along with perl -V.

When I tried to run my script, I got this message. What does it mean?
A complete list of Perl's error messages and warnings with explanatory text can be found in perldiag. You can also use the splain program (distributed with Perl) to explain the error messages:
  perl program 2>diag.out
  splain [-v] [-p] diag.out
or change your program to explain the messages for you:
  use diagnostics;
or
  use diagnostics -verbose;
What's MakeMaker?
This module (part of the standard Perl distribution) is designed to write a Makefile for an extension module from a Makefile.PL. For more information, see ExtUtils::MakeMaker.

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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/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/t/perlfaqo.txt
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=head1 NAME

Pod::Simple::PullParserStartToken -- start-tokens from Pod::Simple::PullParser

=head1 SYNOPSIS

(See L<Pod::Simple::PullParser>)
DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser> object, you might get an object of this class.

This is a subclass of L<Pod::Simple::PullParserToken> and inherits all its methods, and adds these methods:

=head1 DESCRIPTION

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:

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=head1 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:
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} >>

=back

You're unlikely to ever need to construct an object of this class for
yourself, but if you want to, call
C<<
Pod::Simple::PullParserStartToken->new( I<tagname>, I<attrhash> )
>>

=head1 SEE ALSO
L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

=head1 SEE ALSO
L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

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Patches against Pod::Simple are welcome. Please send bug reports to
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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>.
But don't bother him, he's retired.

Pod::Simple is maintained by:

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=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<d wheeler@cpan.org>

=back

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/PullParserStartToken.pm

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=head1 NAME

Pod::Simple - framework for parsing Pod

=head1 SYNOPSIS

TODO

=head1 DESCRIPTION

Pod::Simple is a Perl library for parsing text in the Pod ("plain old documentation") markup language that is typically used for writing documentation for Perl and for Perl modules. The Pod format is explained in L<perlpod>; the most common formatter is called C<perldoc>.

Be sure to read L</ENCODING> if your Pod contains non-ASCII characters.

Pod formatters can use Pod::Simple to parse Pod documents and render them into plain text, HTML, or any number of other formats. Typically, such formatters will be subclasses of Pod::Simple, and so they will inherit its methods, like C<p parse_file>.

If you're reading this document just because you have a Pod-processing subclass that you want to use, this document (plus the documentation for the subclass) is probably all you need to read.
If you're reading this document because you want to write a formatter subclass, continue reading it and then read L<Pod::Simple::Subclassing>, and then possibly even read L<perlpodspec> (some of which is for parser-writers, but much of which is notes to formatter-writers).

=head1 MAIN METHODS

=over

=item C<< $parser = I<SomeClass>::new(); >>

This returns a new parser object, where I<SomeClass> is a subclass of Pod::Simple.

=item C<< $parser->output_fh( *OUT ); >>

This sets the filehandle that C<$parser>'s output will be written to.
You can pass C<*STDOUT> or C<*STDERR>, otherwise you should probably do something like this:

my $outfile = "output.txt";
open TXTOUT, ">$outfile" or die "Can't write to $outfile: $!";
$parser->output_fh(*TXTOUT);

...before you call one of the C<< $parser->parse_I<whatever> >> methods.

=item C<< $parser->output_string( \$somestring ); >>

This sets the string that C<$parser>'s output will be sent to, instead of any filehandle.

=item C<< $parser->parse_file( I<$some_filename> ); >>

=item C<< $parser->parse_file( *INPUT_FH ); >>

This reads the Pod content of the file (or filehandle) that you specify, and processes it with that 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.

=item C<< $parser->parse_string_document( I<$all_content> ); >>

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.

=item C<< $parser->parse_lines( I<...@lines...>, undef ); >>
This processes the lines in C}@lines@ (where each list item must be a
defined value, and must contain exactly one line of content -- so no
items like C"foo\nbar" are allowed). The final Cundef@ is used to
indicate the end of document being parsed.

The other Cparser_<whatever>@ methods are meant to be called only once
per Cparser@ object; but Cparse_lines@ can be called as many times per
Cparser@ object as you want, as long as the last call (and only
the last call) ends with an Cundef@ value.

=item C<< $parser->content_seen >>

This returns true only if there has been any real content seen for this
document. Returns false in cases where the document contains content,
but does not make use of any Pod markup.

=item C<< I<SomeClass>->filter( I<$filename> ); >>

=item C<< I<SomeClass>->filter( I<INPUT_FH> ); >>

=item C<< I<SomeClass>->filter( I<$document_content> ); >>

This is a shortcut method for creating a new parser object, setting the
output handle to STDOUT, and then processing the specified file (or
filehandle, or in-memory document). This is handy for one-liners like
this:

perl -MPod::Simple::Text -e "Pod::Simple::Text->filter('thingy.pod')"

=back

=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.
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.

If you set this attribute to a true value, you will suppress the
parser's complaints about irregularities in the Pod coding. By default,
this attribute's value is false, meaning that irregularities will
be reported.

Note that turning this attribute to true won't suppress one or two kinds
of complaints about rarely occurring unrecoverable errors.

If you set this attribute to a true value, you will stop the parser from
generating a "POD ERRORS" section at the end of the document. By
default, this attribute's value is false, meaning that an errata section
will be generated, as necessary.

If you set this attribute to a true value, it will send reports of
parsing errors to STDERR. By default, this attribute's value is false,
meaning that no output is sent to STDERR.

Setting C<complain_stderr> also sets C<no_errata_section>.

This returns the filename that this parser object was set to read from.

This returns true if C<$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_verbatim_indent('  ');

For tab indents, you'd use a tab character:

\$parser->strip_verbatim_indent("\t");

If the POD is inconsistent about the indentation of verbatim blocks, but you have figured out a heuristic to determine how much a particular verbatim block is indented, you can pass a code reference instead. The code reference will be executed with one argument, an array reference of all the lines in the verbatim block, and should return the value to be stripped from each line. For example, if you decide that you're fine to use the first line of the verbatim block to set the standard for indentation of the rest of the block, you can look at the first line and return the appropriate value, like so:

\$new->strip_verbatim_indent(sub {  
  my $lines = shift;
  (my $indent = $lines->[0]) =~ s/\S+//;
  return $indent;
});

If you'd rather treat each line individually, you can do that, too, by just transforming them in-place in the code reference and returning C<undef>. Say that you don't want I<any> lines indented. You can do something like this:

\$new->strip_verbatim_indent(sub {  
  my $lines = shift;
  sub { s/^\s+// for @ { $lines },
  return undef;
});
TERTIARY METHODS

=item C<< $parser->abandon_output_fh() >>X<abandon_output_fh>

Cancel output to the file handle. Any POD read by the C<$parser> is not affected.

=item C<< $parser->abandon_output_string() >>X<abandon_output_string>

Cancel output to the output string. Any POD read by the C<$parser> is not affected.

=item C<< $parser->accept_code( @codes ) >>X<accept_code>

Alias for L<< accept_codes >>.

=item C<< $parser->accept_codes( @codes ) >>X<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 ) >>X<accept_directive_as_data>

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 ) >>X<accept_directive_as_processed>

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 ) >>X<accept_directive_as_verbatim>

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.
Alias for $accept_targets.

=item $parser->accept_target_as_text( @targets )

Alias for $accept_targets_as_text.

=item $parser->accept_targets( @targets )

Accepts targets for $begin/$for/$end sections of the POD.

=item $parser->accept_targets_as_text( @targets )

Accepts targets for $begin/$for/$end sections that should be parsed as POD. For details, see perlpodspec/About Data Paragraphs.

=item $parser->any_errata_seen()

Used to check if any errata was seen.

I<Example>:

\[
\text{die } "\text{too many errors}\text{n}\" \text{ if } \text{$parser->any_errata_seen();}
\]

=item $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>:

\[
\text{if (}$\text{$parser->any_errata_seen()}$\text{)} \{ \\
\quad \text{$logger->log(}$\text{$parser->errata_seen()}$\text{);} \\
\}
\]

=item $parser->detected_encoding()

Return the encoding corresponding to $encoding, but only if the encoding was recognized and handled.

=item $parser->encoding()

Return encoding of the document, even if the encoding is not correctly handled.

=item $parser->parse_from_file( @source, @to )

Parses from @source file to @to file. Similar to

Pod::Parser/parse_from_file

=item C<< $parser->scream( @error_messages ) >>

Log an error that can't be ignored.

=item C<< $parser->unaccept_code( @codes ) >>

Alias for L<< unaccept_codes >>.

=item C<< $parser->unaccept_codes( @codes ) >>

Removes C<< @codes >> as valid codes for the parse.

=item C<< $parser->unaccept_directive( @directives ) >>

Alias for L<< unaccept_directives >>.

=item C<< $parser->unaccept_directives( @directives ) >>

Removes C<< @directives >> as valid directives for the parse.

=item C<< $parser->unaccept_target( @targets ) >>

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 ); >>.

=back

=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<perlpods pec>. (If the POD source contains only ASCII bytes, the encoding is assumed to be ASCII.)

If you set the C<parse_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>

=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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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

Documentation has been contributed by:

=over

=item * Gabor Szabo C<szabgab@gmail.com>

=item * Shawn H Corey  C<SHCOREY at cpan.org>

=back

=cut

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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/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/META.yml
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::DumpAsText -- dump Pod-parsing events as text

=head1 SYNOPSIS
perl -MPod::Simple::DumpAsText -e \
"exit Pod::Simple::DumpAsText->filter(shift)->any_errata_seen" \
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>

=head1 SUPPORT

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=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.
Pod::Simple is maintained by:

=item * Allison Randal C<allison@perl.org>
=item * Hans Dieter Pearcey C<hdp@cpan.org>
=item * David E. Wheeler C<dwheeler@cpan.org>

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=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 pod-people-subscribe@perl.org to subscribe.

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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>.
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=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/XHTML.pm
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.
This class is NOT a subclass of Pod::Simple::HTML
(nor of bad old Pod::Html) -- although it uses
Pod::Simple::HTML for doing the conversion of each document.

The normal use of this class is like so:

use Pod::Simple::HTMLBatch;
my $batchconv = Pod::Simple::HTMLBatch->new;
$batchconv->some_option( some_value );
$batchconv->some_other_option( some_other_value );
$batchconv->batch_convert( \@search_dirs, $output_dir );

=head2 FROM THE COMMAND LINE

Note that this class also provides
(but does not export) the function Pod::Simple::HTMLBatch::go.
This is basically just a shortcut for C<<
Pod::Simple::HTMLBatch->batch_convert(@ARGV) >>.
It's meant to be handy for calling from the command line.

However, the shortcut requires that you specify exactly two command-line
arguments, C<indirs> and C<outdir>.

Example:

% mkdir out_html
% perl -MPod::Simple::HTMLBatch -e Pod::Simple::HTMLBatch::go @INC out_html
  (to convert the pod from Perl's @INC
   files under the directory ./out_html)

(Note that the command line there contains a literal atsign-I-N-C. This
is handled as a special case by batch_convert, in order to save you having
to enter the odd-looking "" as the first command-line parameter when you
mean "just use whatever's in @INC".)

Example:

% mkdir ../seekrut
% chmod og-rx ../seekrut
% perl -MPod::Simple::HTMLBatch -e Pod::Simple::HTMLBatch::go . ../seekrut
  (to convert the pod under the current dir into HTML
   files under the directory ../seekrut)

Example:

% perl -MPod::Simple::HTMLBatch -e Pod::Simple::HTMLBatch::go happydocs .
(to convert all pod from happydocs into the current directory)

=head1 MAIN METHODS

=head2 Over

=item $batchconv = Pod::Simple::HTMLBatch-&gt;new;
This TODO

=item $batchconv-&gt;batch_convert( I&lt;indirs&gt;, I&lt;outdir&gt; );
this TODO

=item $batchconv-&gt;batch_convert( undef, ... );

=item $batchconv-&gt;batch_convert( q{@INC}, ... );
These two values for I&lt;indirs&gt; specify that the normal Perl @INC

=item $batchconv-&gt;batch_convert( \@dirs, ... );
This specifies that the input directories are the items in
the arrayref C&lt;\@dirs&gt;.

=item $batchconv-&gt;batch_convert( "somedir", ... );
This specifies that the directory "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-&gt;batch_convert( ".", ... );

=item $batchconv-&gt;batch_convert( 'somedir:someother:also', ... );
This specifies that you want the dirs "somedir", "someother", and "also"
scanned, just as if you'd passed the arrayref
C&lt;[qw( somedir someother also)]&gt;. Note that a ":"-separator is normal
under Unix, but Under MSWin, you'll need C&lt;somedir:someother:also&gt;
instead, since the pathsep on MSWin is ";" instead of ":". (And
I&lt;that&gt; is because ":" often comes up in paths, like
C&lt;"c:/perl/lib"&gt;.)
(Exactly what separator character should be used, is gotten from
C<$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.
This controls how verbose to be during batch conversion, as far as
notes to STDOUT (or whatever is selected) 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.

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.

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.

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>
<head><title>Perl Documentation</title></head>
<body class='contentspage'>
<h1>Perl Documentation</h1>
</body>
</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:

<p class='contentsfooty'>Generated by
Pod::Simple::HTMLBatch v3.01 under Perl v5.008
At Fri May 14 22:26:42 2004 GMT, which is Fri May 14 14:26:42 2004 local time.</p>
=item $batchconv-&gt;add_css( $url );

TODO

=item $batchconv-&gt;add_javascript( $url );

TODO

=item $batchconv-&gt;css_flurry( I&lt;true-or-false&gt; );

If true (the default value), we autogenerate some CSS files in the output directory, and set our HTML files to use those.

TODO: continue

=item $batchconv-&gt;javascript_flurry( I&lt;true-or-false&gt; );

If true (the default value), we autogenerate a JavaScript in the output directory, and set our HTML files to use it. Currently, the JavaScript is used only to get the browser to remember what stylesheet it prefers.

TODO: continue

=item $batchconv-&gt;no_contents_links( I&lt;true-or-false&gt; );

TODO

=item $batchconv-&gt;html_render_class( I&lt;classname&gt; );

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&lt;require&gt; or C&lt;use&gt; that class so that's it's loaded before Pod::Simple::HTMLBatch tries loading it.

=item $batchconv-&gt;search_class( I&lt;classname&gt; );

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&lt;require&gt; or C&lt;use&gt; 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

$batchconv->batch_mode_page_object_init($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>

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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
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=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.

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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(...)


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:

=over

=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

Paragraph...
" section, assuming that that section
isn't terribly long. To recognize a "=head1 Author

Paragraph
" 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

Paragraph...
" section, assuming that that section
isn't terribly long. To recognize a "=head1 Description

Paragraph
" section, pass the C<nocase> option:
$parser->get_description(nocase => 1);

=item $version_block = $parser->get_version

This works like get_title except that it returns the contents of
the "=head1 VERSION\n\n[BIG BLOCK]\n" block. Note that this does NOT
return the module's C<$VERSION>!! To recognize a
"=head1 Version\n\n[BIG BLOCK]\n" section, pass the C<nocase> option:

$parser->get_version(nocase => 1);

=back

=head1 NOTE

You don't actually I<have> to define a C<run> method. If you're
writing a Pod-formatter class, you should define a C<run> just so
that users can call C<parse_file> etc, but you don't I<have> to.

And if you're not writing a formatter class, but are instead just
writing a program that does something simple with a Pod::PullParser
object (and not an object of a subclass), then there's no reason to
bother subclassing to add a C<run> method.

=head1 SEE ALSO

L<Pod::Simple>

L<Pod::Simple::PullParserToken> -- and its subclasses
L<Pod::Simple::PullParserStartToken>,
L<Pod::Simple::PullParserTextToken>, and
L<Pod::Simple::PullParserEndToken>.

L<HTML::TokeParser>, which inspired this.

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JUNK:

sub _old_get_title {  # some witchery in here
  my $self = $_[0];
  my $title;
  my @to_unget;

  while(1) {  # whoops, short doc!
    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",

  (DEBUG and print STDERR "-Got token ", @to_unget[-1]->dump, "\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" }

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else { print STDERR "Returning title <>\n" }
}

return " unless defined $title;
return $title;
}

Found in path(s):
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=head1 NAME

Pod::Simple::DumpAsXML -- turn Pod into XML

=head1 SYNOPSIS

perl -MPod::Simple::DumpAsXML -e \n"exit Pod::Simple::DumpAsXML->filter(shift)->any_errata_seen" \n 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 `Pod::PXML`, `Pod::XML`, `Pod::SAX`.

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=back

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-
=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.

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

=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(1<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(1<somestring>) or $token->is_tagname(1<somestring>)

These are shortcuts for C<< $token->tag() eq 1<somestring> >>

=back

You're unlikely to ever need to construct an object of this class for
yourself, but if you want to, call
C<<
Pod::Simple::PullParserEndToken->new( 1<tagname> )
>>

=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

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

# TODO: let it be an option whether a given subclass even wants little treelets?

__END__

=head1 NAME

Pod::Simple::LinkSection -- represent "section" attributes of L codes

=head1 SYNOPSIS

# a long story

=head1 DESCRIPTION

This class is not of interest to general users.
Pod::Simple uses this class for representing the value of the "section" attribute of "L" start-element events. Most applications can just use the normal stringification of objects of this class; they stringify to just the text content of the section, such as "foo" for
C<< LZ<<<Stuff/foo> >>, and "bar" for
C<< LZ<<<Stuff/bIZ<<<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 -MMData::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 -MMData::Dumper -e
"use base qw(Pod::Simple::Methody);
  sub start_L { print Dumper(" . $_[1]{'section'} ) }
__PACKAGE__->new->parse_string_document("=head1 L<Foo/bI<ar>baz>")"

Output:
$VAR1 = 'barbaz';

=head1 SEE ALSO

L<Pod::Simple>

=head1 SUPPORT
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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 -MDData::Dumper -e \n"print Dumper(Pod::Simple::SimpleTree->new->parse_file(shift)->root)" \nptest.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 $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\< [ '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 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<perllol>

L<The "Tree" subsubsection in XML::Parser/"Tree">

=head1 SUPPORT

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archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-
3.35/lib/Pod/Simple/SimpleTree.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>

=head1 SUPPORT

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=cut

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* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-

---
archive-dyJZwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/Debug.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>

=head1 SUPPORT

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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 \n  "exit Pod::Simple::RTF->filter(shift)->any_errata_seen" \n  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> );

These methods set the size (in half-points, like 52 for 26-point) that these heading levels will appear as.

=item $parser->codeblock_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)

If you are particularly interested in customizing this module's output even more, see the source and/or write to me.

=head1 SEE ALSO

L<Pod::Simple>, L<RTF::Writer>, L<RTF::Cookbook>, L<RTF::Document>, L<RTF::Generator>

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

=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>

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

=head1 NAME
Pod::Simple::HTML - convert Pod to HTML

=head1 SYNOPSIS
perl -MPod::Simple::HTML -e Pod::Simple::HTML::go thingy.pod

=head1 DESCRIPTION
This class is for making an HTML rendering of a Pod document.

This is a subclass of L<Pod::Simple::PullParser> and inherits all its methods (and options).

Note that if you want to do a batch conversion of a lot of Pod documents to HTML, you should see the module L<Pod::Simple::HTMLBatch>.

=head1 CALLING FROM THE COMMAND LINE
TODO
perl -MPod::Simple::HTML -e Pod::Simple::HTML::go Thing.pod Thing.html

=head1 CALLING FROM PERL

=head2 Minimal code
use Pod::Simple::HTML;
my $p = Pod::Simple::HTML->new;
$p->output_string($my $html);
$p->parse_file('path/to/Module/Name.pm');
open my $out, '>', 'out.html' or die "Cannot open 'out.html': $!
";
print $out $html;

=head2 More detailed example
use Pod::Simple::HTML;

Set the content type:

$Pod::Simple::HTML::Content_decl = q{<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" >};

my $p = Pod::Simple::HTML->new;

Include a single javascript source:

$p->html_javascript('http://abc.com/a.js');

Or insert multiple javascript source in the header
(or for that matter include anything, thought this is not recommended)

$p->html_javascript(
    '<script type="text/javascript" src="http://abc.com/b.js"></script>
    <script type="text/javascript" src="http://abc.com/c.js"></script>');

Include a single css source in the header:

$p->html_css('/style.css');

or insert multiple css sources:

$p->html_css('
    <link rel="stylesheet" type="text/css" title="pod_stylesheet" href="http://remote.server.com/jquery.css">
    <link rel="stylesheet" type="text/css" title="pod_stylesheet" href="/style.css">');

Tell the parser where should the output go. In this case it will be placed in the $html variable:

my $html;
$p->output_string($html);

Parse and process a file with pod in it:

$p->parse_file('path/to/Module/Name.pm');

=head1 METHODS

TODO
all (most?) accessorized methods

The following variables need to be set B<before> the call to the ->new constructor.

Set the string that is included before the opening <html> tag:
Set the content-type in the HTML head: (defaults to ISO-8859-1)

```perl
$Pod::Simple::HTML::Content_decl = q{<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
};
```

Set the value that will be embedded in the opening tags of F, C tags and verbatim text.
F maps to `<em>`, C maps to `<code>`, Verbatim text maps to `<pre>` (Computerese defaults to `""`)

```perl
$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:

```perl
$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

```perl
$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:

```perl
$p->html_h_level(3);
```

Will make sure that `=head1` will become `<h3>` and `=head2` will become `<h4>` etc...
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);

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">');

The very end of the document:

$p->html_footer( qq
<!-- end doc -->
</body></html>

);
$to =~ s{::}{/}g;
    return "/docs/Padre/$to.html";
}

# all other links are generated by the parent class
my $ret = $self->SUPER::do_pod_link($link);
    return $ret;
}
1;

Meanwhile in script.pl:

use My::Pod;

my $p = My::Pod->new;

my $html;
$p->output_string($html);
$p->parse_file('path/to/Module/Name.pm');
open my $out, '>', 'out.html' or die;
print $out $html;

TODO

maybe override do_beginning do_end

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::HTMLBatch>

TODO: a corpus of sample Pod input and HTML output? Or common idioms?

=head1 SUPPORT

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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This module is managed in an open GitHub repository,
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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 <d wheeler@cpan.org>

back

cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/HTML.pm

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Pod::Simple version 3.33

Pod::Simple is a Perl library for parsing text in the Pod ("plain old documentation") markup language that is typically used for writing documentation for Perl and for Perl modules. The Pod format is explained L<perlpod>; the most common formatter is called C<perldoc>.

Pod formatters can use Pod::Simple to parse Pod documents and render them into plain text, HTML, or any number of other formats.

Installation

To install this module, type the following:

perl Makefile.PL
make
make test
make install

Support

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=item * Marc Green <marc green@cpan.org>
=back
=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/README

1.584 zlib 1.2.11 r1

1.585 zstd 1.3.8

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1.590 lua 5.1.5

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1.591 python-dateutil 1.5

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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# application/activemessage
# application/alto-costmap+json
# application/alto-costmapfilter+json
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# application/mbms-envelope+xml
# application/mbms-msk+xml
# application/mbms-msk-response+xml
# application/mbms-protection-description+xml
# application/mbms-reception-report+xml
# application/mbms-register+xml
# application/mbms-register-response+xml
# application/mbms-schedule+xml
# application/mbms-user-service-description+xml
# application/pgp-keys
application/pgp-signatureasc sig
application/pics-rulesprf
# application/pidf+xml
# application/pidf-diff+xml
application/pkcs10p10
# application/pkcs12
application/pkcs7-mimep7m p7c
application/pkcs7-signaturep7s
application/pkcs8p8
application/pkix-attr-certac
application/pkix-certcer
application/pkix-crlcrl
application/pkix-pkipathpkipath
application/pkixcmppki
application/pls+xmlpls
# application/poc-settings+xml
application/postscriptai eps ps
# application/ppsp-tracker+json
# application/problem+xml
# application/problem+json
# application/provenance+xml
# application/prs.alvestrand.titrax-sheet
application/prs.cwwcw
# application/prs.hpub+zip
# application/prs.nprend
# application/prs.plucker
# application/prs.rdf-xml-crypt
# application/prs.xsf+xml
application/pskc+xmlpskcxmnl
# application/qsig
# application/raptorfec
# application/rdap+json
application/rdf+xmlrdf
application/reginfo+xmlrlrif
application/relax-ng-compact-syntaxrcnc
# application/remote-printing
# application/reputon+json
application/resource-lists+xmlrl
application/resource-lists-diff+xmlrld
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# application/rml+xml
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application/rpki-manifestmft
application/rpki-roaraoa
# application/rpki-updown
# application/tamp-error
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# application/tamp-sequence-adjust-confirm
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# application/tamp-status-response
# application/tamp-update
# application/tamp-update-confirm
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# application/timestamp-reply
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application/vnd.3gpp.pic-bw-varpvb
# application/vnd.3gpp.sms
# application/vnd.3gpp.sms+xml
# application/vnd.3gpp.srvcc-ext+xml
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# application/vnd.3gpp.ussd+xml
# application/vnd.3gpp2.bcmcsinfo+xml
# application/vnd.3gpp2.sms
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# application/vnd.3lightssoftware.imagescal
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application/vnd.acucobolacu
application/vnd.acucorpatcacute
application/vnd.adobe.air-application-installer-package+zipair
# application/vnd.adobe.flash.movie
# application/x-compress
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application/x-debian-packagedeb udeb
application/x-dgc-compressededge
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application/x-doomwad
application/x-dtnex+xmlncx
application/x-dtbook+xmlldb
application/x-dt/resource+xmlmlres
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application/x-glulx
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application/x-gtar
c application/x-gzip
application/x-hdfhdf
application/x-install-instructionsinstall
application/x-iso9660-imageiso
application/x-java-jnlp-filejnlp
application/x-latexlatex
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application/x-miemie
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chemical/x-cml
chemical/x-csml
# chemical/x-pdb
chemical/x-xyz
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# image/dicom-rle
# image/emf
# image/example
# image/fits
image/g3fax
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# image/vnd.airzip.accelerator.azv
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model/vrml vrml
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# model/x3d+fastinfoset
model/x3d+vrml3d x3dv
model/x3d+xml
# model/x3d-vrml
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# multipart/appledouble
# multipart/byteranges
# multipart/digest
# multipart/encrypted
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# multipart/form-data
# multipart/header-set
# multipart/mixed
# multipart/parallel
# multipart/related
# multipart/report
# multipart/signed
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# multipart/x-mixed-replace
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# video/h264-rcdo
# video/h264-svc
# video/h265
# video/iso.segment
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# video/jpeg2000
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# video/mp1s
# video/mp2p
# video/mp2t
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# video/mp4-v-es
video/mpeg
# video/mp4v-es
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# video/mpv
# video/nv
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# video/parityfec
# video/pointer
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# video/raptorfec
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video/vnd.vivoviv
# video/vp8
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video/x-flif flif
video/x-flv flv
video/x-m4vm4v
video/x-matroskamkv mk3d mks
video/x-mng mng
video/x-ms-asfasf asx
video/x-ms-vobvob
video/x-ms-wmwm
video/x-ms-wmv wmv
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video/x-ms-wxwvx
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/HttpMediaTypeException.java

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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/context/annotation/GetMapping.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/context/annotation/RequestScope.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/context/annotation/DeleteMapping.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/remoting/httpinvoker/HttpInvokerRequestExecutor.java
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/web/jsf/DelegatingPhaseListenerMulticaster.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/web/bind/annotation/ValueConstants.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/web/context/support/SpringBeanAutowiringSupport.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/web/bind/MissingServletRequestParameterException.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/http/MediaTypeEditor.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/remoting/httpinvoker/HttpInvokerClientConfiguration.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/web/bind/annotation/InitBinder.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/web/jsf/DecoratingNavigationHandler.java

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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/web/method/HandlerMethod.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/http/ResponseCookie.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/http/server/reactive/ReactorServerHttpRequest.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/http/server/reactive/HierarchicalUriComponents.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/http/util/HierarchicalUriComponents.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/http/server/reactive/ServerHttpResponse.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/http/HttpHeaders.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/http/server/reactive/AbstractServerHttpResponse.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/web/accept/ContentNegotiationManagerFactoryBean.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/http/client/reactive/JettyClientHttpResponse.java
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/http/MediaType.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/http/client/ClientHttpResponse.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/http/server/DefaultPathContainer.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/web/cors/CorsUtils.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/web/server/adapter/HttpWebHandlerAdapter.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/http/server/reactive/UndertowServerHttpResponse.java
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/web/server/handler/NotAcceptableStatusException.java
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/web/server/ResponseStatusExceptionHandler.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/web/server/NotAcceptableStatusException.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/web/server/MethodNotAllowedException.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/web/server/ResponseStatusException.java
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/web/server/MappingMediaTypeFileExtensionResolver.java

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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/client/RestTemplate.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/server/reactive/ReactorServerHttpResponse.java

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  jar/org/springframework/web/context/support/ServletContextResourceLoader.java
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 * return an instance either matching to the session id requested by the
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/http/client/ServletServerHttpAsyncRequestControl.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/http/client/SimpleClientHttpRequestFactory.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/web/context/request/async/DeferredResultProcessingInterceptor.java
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/web/context/support/WebApplicationObjectSupport.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/http/client/AsyncClientHttpRequestExecution.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/http/client/support/InterceptingAsyncHttpAccessor.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/http/client/AsyncClientHttpRequestInterceptor.java
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/http/codec/multipart/Part.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/http/codec/multipart/FormFieldPart.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/http/codec/multipart/MultipartException.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/web/jsf/el/SpringBeanFacesELResolver.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/web/bind/support/WebDataBinderFactory.java

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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/bind/annotation/SessionAttributes.java
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/context/request/async/StandardServletAsyncWebRequest.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/remoting/jaxws/SimpleHttpServerJaxWsServiceExporter.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/server/reactive/ReactorHttpHandlerAdapter.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/HttpEntity.java

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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/multipart/support/DefaultMultipartHttpServletRequest.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/context/request/async/StandardServletAsyncWebRequest.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/server/reactive/ReactorHttpHandlerAdapter.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/HttpEntity.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/bind/support/ConfigurableWebBindingInitializer.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/method/annotation/AbstractCookieValueMethodArgumentResolver.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/context/request/async/CallableInterceptorChain.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/client/reactive/ClientHttpConnector.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/context/async/DeferredResultInterceptorChain.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/context/request/async/DeferredResultInterceptorChain.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/context/ServletConfigAware.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/jsf/DelegatingNavigationHandlerProxy.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/util/pattern/CaptureTheRestPathElement.java
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/remoting/httpinvoker/HttpComponentsHttpInvokerRequestExecutor.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/client/support/AsyncHttpAccessor.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/bind/annotation/MatrixVariable.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/context/support/GroovyWebApplicationContext.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/context/support/StandardServletEnvironment.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/codec/multipart/FilePart.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/server/reactive/SslInfo.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/context/support/AbstractRefreshableWebApplicationContext.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/server/i18n/FixedLocaleContextResolver.java
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1.600 util-linux 2.23.2-65.el7

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

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1.609 godbus 0.1

1.609.1 Available under license:

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1.610 perl-file-fetch 0.56-2.el8

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This is the README file for File::Fetch, a perl module for generic file fetching.

Please refer to ‘perldoc File::Fetch’ after installation for details.

#############################################################################

* Description

File::Fetch

File::Fetch is a generic file fetching mechanism.

It allows you to fetch any file pointed to by a ftp, http or file uri by a number of different means.

#############################################################################

* Installation

File::Fetch follows the standard perl module install process

perl Makefile.PL
make
make test
make install

The module uses no C or XS parts, so no c-compiler is required.

#############################################################################

AUTHOR

This module by Jos Boumans <kane@cpan.org>.
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Found in path(s):
* /opt/cola/permits/1178587157_1625692348.05/0/perl-File-Fetch-0.56-2.el8-1.src.rpm-cosi-expand-archive-ZhMLyqG0/File-Fetch-0.56.tar.gz-cosi-expand-archive-dltWtNIG/File-Fetch-0.56/README

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0.56    Thu Nov 30 14:47:50 2017
* Blacklist 'lftp' use on hpux

0.54    Sun Sep 24 19:46:04 2017
* Switch test URL from www.cpan.org to httpbin.org

0.52    Fri Aug 12 11:15:46 2016
* Set a cleaned env when running git clone
* Changed git repository link in tests
* Removed consistently failing httpbin.org tests

0.50    Mon Aug  8 12:49:13 2016
* Require Module::Load::Conditional 0.66
* Fix FTP tests for ipv6

0.48    Fri Jan 24 10:32:52 2014
* Force curl to be IPv4 only during testing on NetBSD

0.46    Tue Nov 26 22:26:42 2013
* Blacklist 'lftp' on DragonflyBSD

0.44    Sat Sep 28 21:14:12 2013
* Fix INSTALLDIRS to 'site' for perl 5.12+
(Olivier Mengu©)
https://rt.perl.org/rt3/Public/Bug/Display.html?id=116479

0.42    Fri Apr 12 15:28:34 2013
* Skip slurp tests for git://

0.40 Fri Apr 12 11:18:52 2013

* Added git:// url support

0.38 Thu Jan 10 20:52:53 2013

* Add support for an optional tempdir_root parameter (Kent Fredric)

0.36 Thu Jun 28 13:41:31 2012

* Added 'file_default' option for URLs that do not have a file component (Andrew Kirkpatrick)

0.34 Thu Apr 12 22:25:01 2012

* Added heuristics to skip tests when no Internet access

0.32 Mon Jan 17 10:26:40 2011

* Added support for HTTP::Tiny

0.30 Fri Jan 7 21:00:27 2011

* Apply blead patches from Peter Acklam

0.28 Sun Nov 7 21:22:26 2010

* Added support for FreeBSD's 'fetch' command for both http and ftp schemes.

0.28 Sat Nov 6 23:30:59 2010

* Added support for HTTP::Lite

* Resolved issue with '-l' switch and iosock fetch

0.24 Wed Jan 6 23:32:19 2010

* Applied a patch from brian d foy RT #53427 that makes new() respect sub-classes.

0.22 Sat Nov 14 23:13:16 2009

* Bumped to stable version
0.21_02  Thu Nov 12 12:55:57 2009

* Additional checks for the iosock retriever

0.21_01  Wed Nov 11 23:38:27 2009

* Added a simple IO::Socket/IO::Select based http retriever, based on code suggested by Paul 'Leonerd' Evans

0.20  Sat Jun 27 16:30:59 2009

* Promote 0.19_01 to stable

0.19_01  Mon Feb 9 18:04:01 2009

* Address: #42268: Wishlist: slurp to scalar
  File::Fetch can now fetch to scalars as well

0.18  Wed Dec 17 14:00:40 2008

* Address #41412: User agent string contains uninterpolated $VERSION.
* Use IPC::Cmd 0.42's supplied QUOTE constant, rather than rolling our own

0.16  Fri Oct 10 13:54:40 2008

* Promote 0.15_04 to stable.

0.15_04  Mon Sep 22 15:08:49 2008

* Address: #37649: Feature request: Support lftp
  File::Fetch now supports lftp, with one minor caveat: it uses a temporary file to store the commands for lftp, as they are multiline commands. Without this, we run into portability issues with 'special' characters on various platforms, like ; and &.

0.15_03  Sun Jul 13 15:56:41 2008

* Add -q to curl, to inhibit the reading of .curlrc, which may interfere with the options we pass ourselves.
  This addresses #36902

0.15_02  Sun May 18 13:42:30 2008

* Address #35018: Treat HTTP 404 Message as fail with lynx
  lynx now does a -head request first to make sure the file
exists before proceeding

0.15_01  Sun Apr  6 13:55:36 2008

* Address: #32755: File-Fetch tests cannot fail if unable to connect to internet. Tests are now skipped if it looks as the failure is due to a lacking network connection.
* New IPC::Cmd (0.41) fixes an IPC::Open3 bug, which we now rely on.

0.14  Fri Dec 14 13:42:30 2007

* Promote 0.13_04 to stable.

0.13_04  Wed Nov 14 20:07:02 2007

* VMS patches for file:// uris by John M.

0.13_03  2007-11-04 21:32:40

* Restore OS specific file:// URI behaviour. The RFC's specify that the url definition is host OS specific, so what a url means on one machine will mean something different on another.
VMS is now treated according to RFC 1738 (http://www.faqs.org/rfcs/rfc1738.html).

0.13_02 Sun Nov  4 10:38:40 CET 2007

* Apply a perl 5.5.x compatibility fix. Users with perl 5.6.0 or higher do not need to upgrade.

0.13_01 Sat Nov  3 18:55:10 CET 2007

* Apply a modified version of dmq's patch to deal properly with file:// URIs on Win32.
* Add test cases for Win32 file:// URIs

0.12  Mon Oct 15 14:32:23 CEST 2007

* Treat VMS like UNIX when dealing with file URIs

0.10  Fri Jan 26 13:51:19 CET 2007

* Promote 0.09_02 to stable.

0.09_02 Sun Jan  7 18:44:09 CET 2007
* The quotation as done in 0.09_01 doesn't play nicely with Win32 and IPC::Run. IPC::Run is therefore disabled during the fetch() call.
* Remove File::Fetch::Item as a class. All objects are now plain File::Fetch objects. This has no impact on user-end code, except code that checks the class of objects.
* URI encoding is not always clear or trivial. Add a FAQ entry about it.
* Add $ff->output_file as accessor, which is the requested file, stripped from query parameters.
* Errors are now stored per object rather than class wide.

0.09_01 Wed Jan 3 17:17:31 CET 2007

* address: #23864: File::Fetch does not use quotation marks while using wget:
  * the handlers for lynx, wget, curl and rsync now quote their URIs.

0.08 Wed Jul 5 13:56:36 CEST 2006

* address: #18942: unproper handling of http errors in external handlers:
  * the wget handler, on a failed attempt, now unlinks its outputfile
  * the curl handler is updated to follow '302 moved' and such like status messages
  * lynx use is further discouraged, as it doesn't communicate http status messages back to the caller at all.
* address #11483: File::Fetch 0.07 cannot do an FTP fetch on Win32. FTP fetching using Net::FTP should now work properly on win32.
* update test suite so it runs safely under PERL_CORE

0.07 Thu Dec 23 09:31:00 PST 2004

* Add $TIMEOUT to specify the network timeout

0.06 Thu Dec 16 03:21:00 PST 2004

* Add rsync support
* Update faq  
* Silence silly warnings

* Add file support using File::Copy

* Add I18N support  
* Add better error handling

* Add an extra 'FAQ' entry  
* Include a 'use File::Fetch::Item'

* Initial release

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---

abstract: 'Generic file fetching code'
author:  
- 'Jos Boumans <kane[@]cpan.org>'
built_requires:  
  ExtUtils::MakeMaker: '0'
configure_requires:  
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.3, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:  
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
File::Fetch is able to fetch a variety of uris, by using several external programs and modules.

Below is a mapping of what utilities will be used in what order for what schemes, if available:

```
file => LWP, lftp, file
http => LWP, HTTP::Tiny, wget, curl, lftp, fetch, HTTP::Lite, lynx, iosock
ftp  => LWP, Net::FTP, wget, curl, lftp, fetch, ncftp, ftp
rsync => rsync
git  => git
```

If you'd like to disable the use of one or more of these utilities and/or modules, see the C<$BLACKLIST> variable further down.

If a utility or module isn't available, it will be marked in a cache (see the C<$METHOD_FAIL> variable further down), so it will not be tried again. The C<fetch> method will only fail when all options are exhausted, and it was not able to retrieve the file.
The `fetch` utility is available on FreeBSD. NetBSD and Dragonfly BSD may also have it from `pkgsrc`. We only check for `fetch` on those three platforms.

`iosock` is a very limited `IO::Socket::INET` based mechanism for retrieving `http` schemed urls. It doesn't follow redirects for instance.

`git` only supports `git://` style urls.

A special note about fetching files from an ftp uri:

By default, all ftp connections are done in passive mode. To change that, see the `FTP_PASSIVE` variable further down.

Furthermore, ftp uris only support anonymous connections, so no named user/password pair can be passed along.

`bin/ftp` is blacklisted by default; see the `BLACKLIST` variable further down.

=head1 GLOBAL VARIABLES

The behaviour of File::Fetch can be altered by changing the following global variables:

=head2 $File::Fetch::FROM_EMAIL

This is the email address that will be sent as your anonymous ftp password.

Default is `File-Fetch@example.com`.

=head2 $File::Fetch::USER_AGENT

This is the useragent as `LWP` will report it.

Default is `File::Fetch/$VERSION`.

=head2 $File::Fetch::FTP_PASSIVE

This variable controls whether the environment variable `FTP_PASSIVE` and any passive switches to commandline tools will be set to true.

Default value is 1.

Note: When `$FTP_PASSIVE` is true, `ncftp` will not be used to fetch files, since passive mode can only be set interactively for this binary.
$File::Fetch::TIMEOUT

When set, controls the network timeout (counted in seconds).

Default value is 0.

$File::Fetch::WARN

This variable controls whether errors encountered internally by
`File::Fetch` should be `carp`'d or not.

Set to false to silence warnings. Inspect the output of the `error()`
method manually to see what went wrong.

Defaults to `true`.

$File::Fetch::DEBUG

This enables debugging output when calling commandline utilities to
fetch files.

This also enables `Carp::longmess` errors, instead of the regular
`Carp` errors.

Good for tracking down why things don't work with your particular
setup.

Default is 0.

$File::Fetch::BLACKLIST

This is an array ref holding blacklisted modules/utilities for fetching
files with.

To disallow the use of, for example, `LWP` and `Net::FTP`, you could
set `$File::Fetch::BLACKLIST` to:

```perl
$File::Fetch::BLACKLIST = [qw|lwp netftp|]
```

The default blacklist is `[qw|ftp|]`, as `/bin/ftp` is rather unreliable.

See the note on `MAPPING` below.

$File::Fetch::METHOD_FAIL

This is a hashref registering what modules/utilities were known to fail
for fetching files (mostly because they weren't installed).
You can reset this cache by assigning an empty hashref to it, or individually remove keys.

See the note on C<MAPPING> below.

=head1 MAPPING

Here's a quick mapping for the utilities/modules, and their names for the $BLACKLIST, $METHOD_FAIL and other internal functions.

LWP => lwp
HTTP::Lite => httplite
HTTP::Tiny => httptiny
Net::FTP => netftp
wget => wget
lynx => lynx
ncftp => ncftp
ftp => ftp
curl => curl
rsync => rsync
lftp => lftp
fetch => fetch
IO::Socket => iosock

=head1 FREQUENTLY ASKED QUESTIONS

=head2 So how do I use a proxy with File::Fetch?

C<File::Fetch> currently only supports proxies with LWP::UserAgent.
You will need to set your environment variables accordingly. For example, to use an ftp proxy:

    $ENV{ftp_proxy} = 'foo.com';

Refer to the LWP::UserAgent manpage for more details.

=head2 I used 'lynx' to fetch a file, but its contents is all wrong!

C<lynx> can only fetch remote files by dumping its contents to C<STDOUT>,
which we in turn capture. If that content is a 'custom' error file
(like, say, a C<404 handler>), you will get that contents instead.

Sadly, C<lynx> doesn't support any options to return a different exit
code on non-C<200 OK> status, giving us no way to tell the difference
between a 'successful' fetch and a custom error page.

Therefor, we recommend to only use C<lynx> as a last resort. This is
why it is at the back of our list of methods to try as well.

=head2 Files I'm trying to fetch have reserved characters or non-ASCII characters in them. What do I do?

C<File::Fetch> is relatively smart about things. When trying to write
a file to disk, it removes the C<query parameters> (see the
C<output_file> method for details) from the file name before creating
it. In most cases this suffices.

If you have any other characters you need to escape, please install
the C<URI::Escape> module from CPAN, and pre-encode your URI before
passing it to C<File::Fetch>. You can read about the details of URIs
and URI encoding here:

http://www.faqs.org/rfcs/rfc2396.html

=head1 TODO

=over 4

=item Implement $PREFER_BIN

To indicate to rather use commandline tools than modules

=back

=head1 BUG REPORTS

Please report bugs or other issues to E<lt>bug-file-fetch@rt.cpan.org<gt>.

=head1 AUTHOR

This module by Jos Boumans E<lt>kane@cpan.org<gt>.

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=cut

Found in path(s):
* /opt/cola/permits/1178587157_1625692348.05/0/perl-File-Fetch-0.56-2.el8-1.src.rpm-cosi-expand-archive-ZhMLyg0G/File-Fetch-0.56.tar.gz-cosi-expand-archive-dItWtNIG/File-Fetch-0.56/lib/File/Fetch.pm
No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic
Found in path(s):
* /opt/cola/permits/1178587157_1625692348.05/0/perl-File-Fetch-0.56-2.el8-1.src.rpm-cosi-expand-archive-ZhMLyqG0/perl-File-Fetch.spec

1.611 perl 0.08-416.el8
1.611.1 Available under license:

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The End

#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) { skip_all( "Not all files are available during cross-compilation" ); }

my ($opt) = @ARGV;
my $readme_year = readme_year();
my $v_year = v_year();
# Check that both copyright dates are up-to-date, but only if requested, so # that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
  my $current_year = (gmtime)[5] + 1900;
  is $v_year, $current_year, 'perl -v copyright includes current year';
  is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
  is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
  open my $readme, '<', '../README' or die "Opening README failed: $!";

  # The copyright message is the first paragraph:
  local $/ = "
  my $copyright_msg = <$readme>;

  my ($year) = $copyright_msg =~ /.*\d{4,}/s
    or die "Year not found in README copyright message '$copyright_msg'",

  $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
  my $output = runperl switches => ['-v'];
  my ($year) = $output =~ /copyright 1987.*\d{4,}/i
    or die "Copyright statement not found in perl -v output '$output'",

  $year;
}
1.612 autoconf 2.69-27.el8

1.612.1 Available under license:

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1.618 jetty-continuation 9.4.27.v20200227

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Eclipse

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

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

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

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Oracle

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

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

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

* java.sun.security.ssl

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

OW2

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

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

Apache

The following artifacts are ASL2 licensed.

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

MortBay

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

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Mortbay

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.619 chriswhitcombe-rbac v0.0.0-20150818105158-fc124ee11ce4

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1.621 fontconfig 2.13.0 4.3.el7

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Protocol Buffers for Go with Gadgets

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

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1.631 kmod 20-25.el7_7.1

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1.634 jansson 2.4 6.el7
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1.635 perl-text-glob 0.11-4.el8
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---
abstract: 'match globbing patterns against text'
author:
  - 'Richard Clamp <richardc@unixbeard.net>'
buildRequires:
  ExtUtils::MakeMaker: 0
  Test::More: 0
configureRequires:
  ExtUtils::MakeMaker: 0
dynamicConfig: 0
generatedBy: ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.143240
license: perl
metaSpec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Text-Glob
noIndex:
  directory:
    - t
    - inc
requires:
  Exporter: 0
  constant: 0
  perl: '5.00503'
resources: {}
version: '0.11'

Found in path(s):
  * /opt/cola/permits/1125845235_1611460557.87/0/perl-Text-Glob-0.11-4.el8-1.src.rpm-cosi-expand-archive-uRwMK4vR/Text-Glob-0.11.tar.gz-cosi-expand-archive-AoJS2sEW/Text-Glob-0.11/META.yml
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=head1 NAME

Text::Glob - match globbing patterns against text

=head1 SYNOPSIS

use Text::Glob qw( match_glob glob_to_regex );

print "matched\n" if match_glob( "foo.*", "foo.bar" );

# prints foo.bar and foo.baz
my $regex = glob_to_regex( "foo.*" );
for ( qw( foo.bar foo.baz foo.bar ) ) {
  print "matched: $\n" if /$regex;
}

=head1 DESCRIPTION

Text::Glob implements glob(3) style matching that can be used to match
against text, rather than fetching names from a filesystem. If you
want to do full file globbing use the File::Glob module instead.

=head2 Routines

=over

=item match_glob( $glob, @things_to_test )

Returns the list of things which match the glob from the source list.

=item glob_to_regex( $glob )

Returns a compiled regex which is the equivalent of the globbing pattern.

=item glob_to_regex_string( $glob )

Returns a regex string which is the equivalent of the globbing pattern.

=back

=head1 SYNTAX

The following metacharacters and rules are respected.

=over

=item C<*> - match zero or more characters

C<a*> matches C<a>, C<aa>, C<aaaa> and many many more.

=item C<?,> - match exactly one character

C<a?> matches C<aa>, but not C<a>, or C<aaa>

=item Character sets/ranges

C<example.[ch]> matches C<example.c> and C<example.h>

C<demo.[a-c]> matches C<demo.a>, C<demo.b>, and C<demo.c>

=item alternation

C<example.{foo,bar,baz}> matches C<example.foo>, C<example.bar>, and C<example.baz>

=item leading . must be explicitly matched
C<*.foo> does not match C<.bar.foo>. For this you must either specify the leading . in the glob pattern (C<*.foo>), or set C<$Text::Glob::strict_leading_dot> to a false value while compiling the regex.

=item C<*> and C<??> do not match the separator (i.e. do not match C</>

C<*.foo> does not match C<bar/baz.foo>. For this you must either explicitly match the / in the glob (C<*/foo>), or set C<$Text::Glob::strict_wildcard_slash> to a false value while compiling the regex, or change the separator that Text::Glob uses by setting C<$Text::Glob::separator> to an alternative value while compiling the regex.

=back

=head1 BUGS

The code uses qr// to produce compiled regexes, therefore this module requires perl version 5.005_03 or newer.

=head1 AUTHOR

Richard Clamp <richardc@unixbeard.net>

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=head1 SEE ALSO

L<File::Glob>, glob(3)

=cut

Found in path(s):
  * /opt/cola/permits/1125845235_1611460557.87/0/perl-Text-Glob-0.11-4.el8-1.src.rpm-cosi-expand-archive-uRwMK4vR/Text-Glob-0.11.tar.gz-cosi-expand-archive-AodS2sEW/Text-Glob-0.11/lib/Text/Glob.pm
No license file was found, but licenses were detected in source scan.

Name: perl-Text-Glob
Version: 0.11
Release: 4% (?dist)
Summary: Perl module to match globbing patterns against text
License: GPL+ or Artistic
URL: http://search.cpan.org/dist/Text-Glob/
Source0: http://www.cpan.org/authors/id/R/RC/RCLAMP/Text-Glob-\%{version}.tar.gz

BuildArch: noarch
BuildRequires: perl-generators
BuildRequires: \{%__perl\%
BuildRequires: \{%__make\%

BuildRequires: perl(ExtUtils::MakeMaker)
BuildRequires: perl(Exporter)
BuildRequires: perl(Test::More)
BuildRequires: perl(constant)
BuildRequires: perl(strict)
BuildRequires: perl(vars)
Requires: perl(MODULE_COMPAT_%(eval "\"\%{__perl} -V:version\"; echo $version)\)

%description
Text::Glob implements glob(3) style matching that can be used to match against text, rather than fetching names from a file-system. If you want to do full file globbing use the File::Glob module instead.

%prep
%setup -q -n Text-Glob-\%{version}

%build
\{%__perl\% Makefile.PL INSTALLDIRS=vendor NO_PACKLIST=1
\{%__make\% \{%?_smp_mflags\%

%install
\{%__make\% pure_install DESTDIR=$RPM_BUILD_ROOT
chmod -R u+w $RPM_BUILD_ROOT/*

%check
\{%__make\% test

%files
%doc Changes
\{%perl_vendorlib\%/Text
\{%_mandir\%/man3/*

%changelog
* Fri Feb 09 2018 Fedora Release Engineering <releng@fedoraproject.org> - 0.11-4
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_28_Mass_Rebuild

* Thu Jul 27 2017 Fedora Release Engineering <releng@fedoraproject.org> - 0.11-3
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_27_Mass_Rebuild
* Sun Jun 04 2017 Jitka Plesnikova <jplesnik@redhat.com> - 0.11-2
  - Perl 5.26 rebuild

* Mon Mar 13 2017 Ralf Corspius <corsepiu@fedoraproject.org> - 0.11-1
  - Upstream update.
  - Spec files cosmetics.

* Sat Feb 11 2017 Fedora Release Engineering <releng@fedoraproject.org> - 0.10-2
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_26_Mass_Rebuild

* Thu Sep 22 2016 Ralf Corspius <corsepiu@fedoraproject.org> - 0.10-1
  - Upstream update.

* Sat May 14 2016 Jitka Plesnikova <jplesnik@redhat.com> - 0.09-16
  - Perl 5.24 rebuild

* Thu Feb 04 2016 Fedora Release Engineering <releng@fedoraproject.org> - 0.09-15
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_24_Mass_Rebuild

* Sat Jan 30 2016 Ralf Corspius <corsepiu@fedoraproject.org> - 0.09-14
  - Modernize spec.

* Thu Jun 18 2015 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.09-13
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_23_Mass_Rebuild

* Wed Jun 03 2015 Jitka Plesnikova <jplesnik@redhat.com> - 0.09-12
  - Perl 5.22 rebuild

* Wed Aug 27 2014 Jitka Plesnikova <jplesnik@redhat.com> - 0.09-11
  - Perl 5.20 rebuild

* Sat Jun 07 2014 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.09-10
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_21_Mass_Rebuild

* Sun Aug 04 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.09-9
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_20_Mass_Rebuild

* Wed Jul 17 2013 Petr Pisar <ppisar@redhat.com> - 0.09-8
  - Perl 5.18 rebuild

* Thu Feb 14 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.09-7
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_19_Mass_Rebuild

* Fri Aug 10 2012 Jitka Plesnikova <jplesnik@redhat.com> - 0.09-6
  - Update BRs and remove %%%defattr.

* Fri Jul 20 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.09-5
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild
* Fri Jun 08 2012 Petr Pisar <ppisar@redhat.com> - 0.09-4
  - Perl 5.16 rebuild

* Fri Jan 13 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.09-3
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_17_Mass_Rebuild

* Fri Jun 17 2011 Marcela Malov <mmaslano@redhat.com> - 0.09-2
  - Perl mass rebuild

* Wed Mar 02 2011 Ralf Corspius <corsepiu@fedoraproject.org> - 0.09-1
  - Upstream update.
  - Spec cleanup.

* Wed Feb 09 2011 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.08-11
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_15_Mass_Rebuild

* Thu Dec 23 2010 Marcela Maslanova <mmaslano@redhat.com> - 0.08-10
  - 661697 rebuild for fixing problems with vendorach/lib

* Fri May 07 2010 Marcela Maslanova <mmaslano@redhat.com> - 0.08-9
  - Mass rebuild with perl-5.12.0

* Thu Feb 25 2010 Marcela Malov <mmaslano@redhat.com> - 0.08-8
  - add readme

* Fri Dec 4 2009 Stepan Kasal <skasal@redhat.com> - 0.08-7
  - rebuild against perl 5.10.1

* Sun Jul 26 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.08-6
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_12_Mass_Rebuild

* Thu Feb 26 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.08-5
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_11_Mass_Rebuild

* Wed Feb 27 2008 Tom "spot" Callaway <tcallawa@redhat.com> - 0.08-4
  - Rebuild for perl 5.10 (again)

* Fri Jan 11 2008 Tom "spot" Callaway <tcallawa@redhat.com> - 0.08-3
  - rebuild for new perl

* Sat Aug 18 2007 Ralf Corspius <rc040203@freenet.de> - 0.08-2
  - Update license tag.

* Tue May 08 2007 Ralf Corspius <rc040203@freenet.de> - 0.08-1
  - Upstream update.

* Tue Sep 05 2006 Ralf Corspius <rc040203@freenet.de> - 0.07-2
- Mass rebuild.

* Thu Jul 20 2006 Ralf Corspius <rc040203@freenet.de> - 0.07-1
- Upstream update.

* Tue Feb 28 2006 Ralf Corspius <rc040203@freenet.de> - 0.06-4
- Rebuild for perl-5.8.8.

* Wed Aug 10 2005 Ralf Corsepius <ralf@links2linux.de> - 0.06-3
- Spec cleanup.

* Wed Aug 10 2005 Ralf Corsepius <ralf@links2linux.de> - 0.06-2
- FE resubmission.

* Fri Jul 01 2005 Ralf Corsepius <ralf@links2linux.de> - 0.06-1
- FE submission.

Found in path(s):
* /opt/cola/permits/1125845235_1611460557.87/0/perl-Text-Glob-0.11-4.el8-1.src.rpm-cosi-expand-archive-uRwMK4vR/perl-Text-Glob.spec

1.636 cloudfoundry-candiedyaml 0.1.0

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1.637 vmihailenko-msgpack v5.3.4

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# Jackson JSON processor

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

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Clockwork - a scheduler process to replace cron

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

Cron is non-ideal for running scheduled application tasks, especially in an app

Clockwork is a lightweight, long-running Ruby process which sits alongside your
web processes (Mongrel/Thin) and your worker processes (DJ/Resque/Minion/Stalker)
to schedule recurring work at particular times or dates. For example,
refreshing feeds on an hourly basis, or send reminder emails on a nightly
basis, or generating invoices once a month on the 1st.

Example
-------

Create schedule.rb:

    require 'clockwork'
    include Clockwork

    every('10s') { puts 'every 10 seconds' }
    every('3m') { puts 'every 3 minutes' }
    every('1h') { puts 'once an hour' }
    every('1d', :at => '00:00') { puts 'every night at midnight' }

Run it with the clockwork binary:
$ clockwork schedule.rb

Or run directly with Ruby:

$ ruby -r schedule -e Clockwork.run

Use with queueing

Clockwork only makes sense as a place to schedule work to be done, not to do
the work. It avoids locking by running as a single process, but this makes it
impossible to parallelize. For doing the work, you should be using a job
queueing system, such as

[Delayed Job](http://www.therailsway.com/2009/7/22/do-it-later-with-delayed-job),
[Beanstalk/Stalker](http://adam.heroku.com/past/2010/4/24/beanstalk_a_simple_and_fast_queueing_backend/),
[RabbitMQ/Minion](http://adamblog.heroku.com/past/2009/9/28/background_jobs_with_rabbitmq_and_minion/), or
[Resque](http://github.com/blog/542-introducing-resque). This design allows
a simple scheduler process with no locks, but also offers near infinite
horizontal scalability.

For example, if you're using Beanstalk/Staker:

    require 'clockwork'
    include Clockwork

    require 'stalker'
    include Stalker

    every('1h') { enqueue('feeds.refresh') }
    every('1d', at => '01:30') { enqueue('reminders.send') }

Using a queueing system which doesn't require that your full application be
loaded is preferable, because the scheduler process can keep a tiny memory
footprint. If you're using DJ or Resque, however, you can go ahead and load
your full application enviroment. For example, with DJ/Rails:

    require 'config/boot'
    require 'config/environment'

    require 'clockwork'
    include Clockwork

    every('1h') { Feed.send_later(:refresh) }
    every('1d', at => '01:30') { Reminder.send_later(:send_reminders) }

In production

-------------
Only one scheduler process should ever be running across your whole application deployment. For example, if your app is running on three VPS machines (two app servers and one database), your app machines might have the following process topography:

* Machine 1: 3 web (thin start), 3 workers (rake jobs:work), 1 scheduler (clockwork schedule.rb)
* Machine 2: 3 web (thin start), 3 workers (rake jobs:work)

You should use Monit, God, Upstart, or Inittab to keep your scheduler process running the same way you keep your web and workers running.

Meta
----

Created by Adam Wiggins

Inspired by [rufus-scheduler](http://rufus.rubyforge.org/rufus-scheduler/) and [http://github.com/bvandenbos/resque-scheduler](resque-scheduler)

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

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

---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>."
built_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
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The End
#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
  skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so that tests still pass for people intentionally working on older versions:
if ($opt eq '--now') {
  my $current_year = (gmtime)[5] + 1900;
  is $v_year, $current_year, 'perl -v copyright includes current year';
is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else 
{
  is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
  open my $readme, '<', '../README' or die "Opening README failed: $!";
  # The copyright message is the first paragraph:
  local $/ = '';
  my $copyright_msg = <$readme>;
  my ($year) = $copyright_msg =~ /.*(\d{4,})/s
    or die "Year not found in README copyright message '$copyright_msg'";
  $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
  my $output = runperl switches => ['-v'];
  my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
    or die "Copyright statement not found in perl -v output '$output'";
  $year;
}

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[This is the first released version of the library GPL. It is
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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
  Dynamic chip feature detection (a.k.a. generic chip support) in
  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.

1.661 expat 2.2.5 3.el8
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Julian Seward, jsward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>.
buildRequires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

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

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

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

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

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

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

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

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

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

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

That's all there is to it!

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Preamble

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b) use the modified Package only within your corporation or organization.

c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

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a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) accompany any non-standard executables with their corresponding Standard Version executables, giving the non-standard executables non-standard names, and clearly documenting the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

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The End

#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perlc so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
  skip_all("Not all files are available during cross-compilation");
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so # that tests still pass for people intentionally working on older versions:
if ($opt eq '--now') {
  my $current_year = (gmtime)[5] + 1900;
  is $v_year, $current_year, 'perl -v copyright includes current year';
  is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else {

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = "
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*(\d{4,})/s
        or die "Year not found in README copyright message '$copyright_msg'";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
        or die "Copyright statement not found in perl -v output '$output'";

    $year;
}

1.664 zookeeper-jute 3.6.2
1.664.1 Available under license:
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options {
    STATIC=false;
}

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

import org.apache.jute.compiler.*;
import java.util.ArrayList;
import java.util.Hashtable;
import java.io.File;
import java.io.FileReader;
import java.io.FileNotFoundException;
import java.io.IOException;

@SuppressWarnings("unused")
public class Rcc {
    private static Hashtable<String, JRecord> recTab = new Hashtable<String, JRecord>();
    private static String curDir = System.getProperty("user.dir");
    private static String curFileName;
    private static String curModuleName;

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

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

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

if (recFiles.size() == 0) {
    System.out.println("No record files specified. Exiting.");
    System.exit(1);
}
for (int i=0; i<recFiles.size(); i++) {
    curFileName = recFiles.get(i);
    File file = new File(curFileName);
    try {
        curFile = parseFile(file);
    } catch (FileNotFoundException e) {
        System.out.println("File "+ recFiles.get(i) + " Not found.");
        System.exit(1);
    } catch (ParseException e) {
        System.out.println(e.toString());
        System.exit(1);
    }
    System.out.println(recFiles.get(i) + " Parsed Successfully");
    try {
        curFile.genCode(language, new File("."));
    } catch (IOException e) {
        System.out.println(e.toString());
        System.exit(1);
    }
}

public static JFile parseFile(File file) throws FileNotFoundException, ParseException {
    curDir = file.getParent();
    curFileName = file.getName();
    FileReader reader = new FileReader(file);
    try {
        Rcc parser = new Rcc(reader);
        recTab = new Hashtable<String, JRecord>();
        return parser.Input();
    } finally {
        try {
            reader.close();
        } catch (IOException e) {
        }
    }
}

PARSER_END(Rcc)

SKIP:
JFile Input():
{
    ArrayList<JFile> ilist = new ArrayList<JFile>();
    ArrayList<JRecord> rlist = new ArrayList<JRecord>();
    JFile i;
    ArrayList<JRecord> l;
    
    (i = Include())
    {
        ilist.add(i);
    }
    (l = Module())
    {
        rlist.addAll(l);
    }+
    <EOF>
    {
        return new JFile(curFileName, ilist, rlist);
    }
}

JFile Include():
{
    String fname;
    Token t;
}

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

ArrayList<JRecord> Module() :
{
    String mName;
    ArrayList<JRecord> rlist;
}
{
    <MODULE_TKN>
    mName = ModuleName();
    { curModuleName = mName; }
    <LBRACE_TKN>
    rlist = RecordList();
    <RBRACE_TKN>
    { return rlist; }
}

String ModuleName() :
{
    String name = "";
    Token t;
}
{
    t = <IDENT_TKN>
JRecord Record() :
{
    String rname;
    ArrayList<JField> flist = new ArrayList<JField>();
    Token t;
    JField f;
}
{
    <RECORD_TKN>
    t = <IDENT_TKN>
    { rname = t.image; }
    <LBRACE_TKN>
    ( f = Field() 
        { flist.add(f); } 
    <SEMICOLON_TKN>
    )+
    <RBRACE_TKN>
    {
    String fqn = curModuleName + "." + rname;
    JRecord r = new JRecord(fqn, flist);
    recTab.put(fqn, r);
    return r;
    }
}
JField Field() :
{
    JType jt;
    Token t;
}
{
    jt = Type()
    t = <IDENT_TKN>
    { return new JField(jt, t.image); }
}

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

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

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

Found in path(s):
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/jute/compiler/generated/rcc.jj
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*/

Found in path(s):
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/generated/RccConstants.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/generated/Rcc.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/generated/ParseException.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/generated/TokenMgrError.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/generated/SimpleCharStream.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/generated/Token.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/generated/RccTokenManager.java

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*/

Found in path(s):
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/ConnectRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/GetChildrenResponse.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/ErrorResponse.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/zookeeper/proto/RequestHeader.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/zookeeper/proto/ErrorTxn.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/zookeeper/proto/SetACLTxn.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/zookeeper/proto/ExistsResponse.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/zookeeper/proto/SyncResponse.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/zookeeper/proto/GetChildrenRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/zookeeper/proto/SetSASLResponse.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/zookeeper/txn/Txn.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/zookeeper/txn/CloseSessionTxn.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/zookeeper/txn/AddWatchRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/zookeeper/txn/SetMaxChildrenRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/zookeeper/txn/GetDataResponse.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/zookeeper/txn/TxnDigest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/zookeeper/txn/GetMaxChildrenResponse.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/zookeeper/txn/CreateTTLTxn.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/zookeeper/server/quorum/QuorumAuthPacket.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/zookeeper/proto/ReconfigRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/zookeeper/proto/GetChildren2Request.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/zookeeper/proto/AddWatchRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/zookeeper/proto/SetMaxChildrenTxn.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/zookeeper/proto/GetACLRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/zookeeper/proto/AddWatchResponse.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/zookeeper/proto/GetACLResponse.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/zookeeper/proto/GetMaxChildrenResponse.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/zookeeper/data/Stat.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/zookeeper/proto/CreateResponse.java
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  jar/org/apache/jute/Utils.java
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* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
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The snowball stemmers in
   analysis/common/src/java/net/sf/snowball
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The full snowball package is available from
   http://snowball.tartarus.org/

The KStem stemmer in
   analysis/common/src/org/apache/lucene/analysis/en
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analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers
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analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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

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

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Oracle

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

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

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

* java.sun.security.ssl

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

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OW2

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

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Apache

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

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MortBay

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

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

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Mortbay

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.676 log4j-api 2.14.1
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1.678 jackson-databind 2.10.5.1

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

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1.682 paranamer 2.7

1.683 perl-file-path 2.15-2.el8

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=head1 NAME

File::Path - Create or remove directory trees

=head1 VERSION


=head1 SYNOPSIS

use File::Path qw(make_path remove_tree);

@created = make_path(‘foo/bar/baz’, ‘/zug/zwang’);
@created = make_path('foo/bar/baz', '/zug/zwang', {
    verbose => 1,
    mode => 0711,
});
make_path('foo/bar/baz', '/zug/zwang', {
    chmod => 0777,
});

$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, .... )

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

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

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

The function returns the list of directories actually created during the call; in scalar context the number of directories created.
The following keys are recognised in the option hash:

=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 C<rm -rf> or the Windows commands C<rmdir /s> and C<rd /s>.

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

C<remove_tree()>’s behaviour may be tuned by an optional hashref appearing as the last parameter on the call. If an empty string is passed to C<remove_tree>, an error will occur.
B<NOTE:> For security reasons, we strongly advise use of the
hashref-as-final-argument syntax -- specifically, with a setting of the C<safe>
element to a true value.

```
remove_tree( $dir1, $dir2, ....,
    
    
    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 C<remove_tree> to print the name of each file as
it is unlinked. By default nothing is printed.

=item safe => $bool

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

=item keep_root => $bool

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

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

=item result => \$res

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

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

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

=item error => \$err

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

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

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

=back

=item rmtree( \$dir )

=item rmtree( \$dir, $verbose, $safe )

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

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

The C<rmtree()> 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
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.

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

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

An example usage looks like:

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

Note that if no errors are encountered, C<$err> will reference an empty array. This means that C<$err> will always end up TRUE; so you need to test C<@$err> to determine if errors occurred.
=head2 NOTES

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

use File::Path 'rmtree';

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

use File::Path 'remove_tree';

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

use File::Path qw(remove_tree rmtree);

=head3 API CHANGES

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

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

=head3 SECURITY CONSIDERATIONS

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

See the following pages for more information:

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

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

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

=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.

=back

=head1 SEE ALSO

=over 4

=item *

L<File::Remove>

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

=item *

L<File::Find::Rule>

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

=back

=head1 BUGS AND LIMITATIONS

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

=head2 MULTITHREADED APPLICATIONS

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

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

=head2 NFS Mount Points

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

=head2 REPORTING BUGS

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

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

bug-File-Path@rt.cpan.org

In either case, please attach patches to the bug report rather than including them inline in the web post or the body of the email.

You can also send pull requests to the Github repository:

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

=head1 ACKNOWLEDGEMENTS

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

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

=head1 AUTHORS

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---
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'
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/1178587664_1625692314.05/0/perl-File-Path-2.15-2.el8-1.src.rpm-cosi-expand-archive-0UqTq70B/File-Path-2.15.tar.gz-cosi-expand-archive-QC7Qw6bg/File-Path-2.15/META.yml
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:
  ExtUtil::MakeMaker

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

To test:
  Carp       File::Spec::Functions
  Config     SelectSaver
  Cwd        Test::More
  Errno       Win32   # Windows only
  Fcntl

BUGS
The File-Path bug tracker is located at:

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

File reports by sending email to:

bug-File-Path@rt.cpan.org

Include test programs or patches as email attachments.

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

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>>> freebsd-base64-4.8
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$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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```

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

---

### 1.686 perl-ipc-sysv 2.07-397.el8

#### 1.686.1 Available under license:

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

Found in path(s):
* /opt/cola/permits/1139282076_1614507763.27/0/perl-IPC-SysV-2.07-397.el8-1.src.rpm-cosi-expand-archive-V3CEDbDI/IPC-SysV-2.07.tar.gz-cosi-expand-archive-XOjEixtR/IPC-SysV-2.07/t/podcov.t
```
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SKIP

=head1 NAME

ppport.h - Perl/Pollution/Portability version 9.99

=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 pport.h

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

=head1 COMPATIBILITY

This version of F<pport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.11.5.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<pport.h>.

=head2 --patch=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=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.

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

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

The default namespace is C<DPPP_>.

=back

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

=head1 EXAMPLES

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

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

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

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

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

```
perl ppport.h --nochanges
```

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

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

This would output context diffs with 10 lines of context.

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

```
perl ppport.h --copy=.new
```

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

```
perl ppport.h --api-info=newSVpvn
```

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

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

to display portability information for all C<_nomg> functions or

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

to display information for all known API elements.

=head1 BUGS

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

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

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

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

=item 4.

A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort>
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modify it under the same terms as Perl itself.
See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval \'$\{^\*RE_TRIE_MAXBUF\} = -1\' if \$\} > 5.009004 && \$\} <= 5.009005 }
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
    die "Invalid version number: $opt{'compat-version'}
    $opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
}
else {
    $opt{'compat-version'} = 5;
}

my %API = map { /^(\w+)\|([^|]*)(\[^|]*)\|([^|]*)\|([^|]*)$/
    ? ( $1 => {
        ($2                  ? ( base     => $2 ) : ()),
        ($3                  ? ( todo     => $3 ) : ()),
        (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
        (index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
        (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ()),
    } )
    : die "invalid spec: $_" } qw(AvFILLp|5.004050||p
AvFILL||
CLASS||n
CPERLscope|5.005000||p
CX_CURPAD_SAVE||
CX_CURPAD_SV||
CopFILEAV|5.006000||p
CopFILEGV_set|5.006000||p
CopFILEGV|5.006000||p
CopFILE_set|5.006000||p
CopFILE|5.006000||p
CopSTASHPV_set|5.006000||p
CopSTASHPV|5.006000||p
CopSTASH_eq|5.006000||p
CopSTASH_set|5.006000||p
CopSTASH|5.006000||p
CopyD|5.009002||p
Copy||
CvPADLIST||
CvSTASH
CvWEAKOUTSIDE
DEF_SV_set[5.010001]|\nDEF_SV[5.004050]|\nEND_EXTERN_C[5.005000]|\nENTER
ERRSV[5.004050]|\nEXTEND
EXTERN_C[5.005000]|\nF0convert
FREETMPS
GIMME_V[5.004000]|\nGIMME
GROK_NUMERIC_RADIX[5.007002]|\nG_ARRAY
G_DISCARD
G_EVAL
G_METHOD[5.006001]|\nG_NOARGS
G_SCALAR
G_VOID[5.004000]
GetVars
GvSVn[5.009003]|\nGvSV
Gv_AMupdate[5.011000]
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HeHASH[5.004000]
HeKEY[5.004000]
HeKLEN[5.004000]
HePV[5.004000]
HeSVKEY_force[5.004000]
HeSVKEY_set[5.004000]
HeSVKEY[5.004000]
HeUTF8[5.010001]
HeVAL[5.004000]
HvNAMELEN_get[5.009003]|\nHvNAME_get[5.009003]|\nHvNAME
INT2PTR[5.006000]|\nIN_LOCALE_COMPILETIME[5.007002]|\nIN_LOCALE_RUNTIME[5.007002]|\nIN_LOCALE[5.007002]|\nIN_PERL_COMPILETIME[5.008001]|\nIS_NUMBER_GREATER_THAN_UV_MAX[5.007002]|\nIS_NUMBER_INFINITY[5.007002]|\nIS_NUMBER_IN_UV[5.007002]|\nIS_NUMBER_NAN[5.007003]|\nIS_NUMBER_NEG[5.007002]|\n
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IVSIZE
IVTYPE
IVdf
LEAVE
LVRET
MARK
MULTICALL
MY_CXT_CLONE
MY_CXT_INIT
MY_CXT
MoveD
Move
NOOP
NUM2PTR
NVTYPE
NVef
NVrl
NVgf
Newxc
Newxz
Newx
Nullav
Nullch
Nullcv
Nullhv
Nullsv
ORIGMARK
PAD_BASE_SV
PAD_CLONE_VARS
PAD_COMPNAME_FLAGS
PAD_COMPNAME_GEN_set
PAD_COMPNAME_GEN
PAD_COMPNAME_OURSTASH
PAD_COMPNAME_PV
PAD_COMPNAME_TYPE
PAD_DUP
PAD_RESTORE_LOCAL
PAD_SAVE_LOCAL
PAD_SAVE_SETNULLPAD
PAD_SETSV
PAD_SET_CUR_NOSAVE
PAD_SET_CUR
PAD_SV
PAD_SV
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PERLIO_FUNCS_DECL
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PERL_HASH|5.004000||p
PERL_INT_MAX|5.004000||p
PERL_INT_MIN|5.004000||p
PERL_LONG_MAX|5.004000||p
PERL_LONG_MIN|5.004000||p
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PERL_MAGIC_backref|5.007002||p
PERL_MAGIC_bml|5.007002||p
PERL_MAGIC_collxfrm|5.007002||p
PERL_MAGIC_dbfile|5.007002||p
PERL_MAGIC_dbline|5.007002||p
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PERL_MAGIC_fm|5.007002||p
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PERL_MAGIC_overload_elem|5.007002||p
PERL_MAGIC_overload_table|5.007002||p
PERL_MAGIC_overload|5.007002||p
PERL_MAGIC_pos|5.007002||p
PERL_MAGIC_qr|5.007002||p
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isBLANK
isCNTRL
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isPSXSPC
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is_uni_alpha
is_uni_ascii_lc
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my_htolei
my_htolel
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my_hton1
my_kid
my_letoh16
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my_letohl
my_letohes
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<tbody>
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<tr>
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<td>my_snprintf</td>
<td>5.009004</td>
<td>pvn</td>
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<td>my_socketpair</td>
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<td>n</td>
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<td>my_sprintf</td>
<td>5.009003</td>
<td>pvn</td>
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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][^*]*\*+)* / | /[^\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
}

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```perl
undef $define;
}
}

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

if ($function) {
  if (/^\s*)/) {
    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\s_(\w+)\);$;

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

if (m{^\s*\$rccs\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{^\s*\#s*defined\(\$\w+\)\(\$\w+\)\);$};

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/;
}
```

my $info = 0;
if ($API{$f}{base} || $API{$f}{todo}) {
    my $base = format_version($API{$f}{base} || $API{$f}{todo});
    print "$info
    Supported at least starting from perl-$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$join(\n    \n" if exists $depends{$f};
    print "\nHints\n$TextUtils{$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 \n\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) {
                my $#name = 0;
                if ($API{$f}{base} || $API{$f}{todo}) {
                    my $base = format_version($API{$f}{base} || $API{$f}{todo});
                    print "$info
                    Supported at least starting from perl-$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$join(\n                    \n" if exists $depends{$f};
                    print "\nHints\n$TextUtils{$f}" if exists $Hints{$f};
                    print "\nWARNING:\n$Warnings{$f}" if exists $Warnings{$f};
                    $info++;
                }
                print "No portability information available.\n" unless $info;
                $count++;
            }
        }
    }
    print "Found no API matching \n\n";
    exit 0;
    }
    exit 0;
}
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;

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}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;
my $func;
for $func (keys %API) {
my $match = $func;
$match .= "|$revreplace{$func}" if exists $revreplace{$func};
if ($c =~ /\b(?:Perl_)?($match)\b/) {
$file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
$file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
if (exists $API{$func}{provided}) {
$file{uses_provided}{$func}++;
if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
$file{uses}{$func}++;
my @deps = rec_depend($func);
if (@deps) {
$file{uses_deps}{$func} = \@deps;
for (@deps) {
$file{uses}{$_} = 0 unless exists $file{uses}{$_};
}
}
for ($func, @deps) {
$file{needs}{$_} = 'static' if exists $need{$_};
}

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

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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{\bPerl_$func\s*\([^)]+\)\{|?!aTHX_\?}{^[^]aTHX_}\}\ge);

      if ($changes) {
        warning("Doesn't pass interpreter argument aTHX to Perl_$func");
        $file{changes} += $changes;
      }
    }
    else {
      warning("Uses Perl_$func instead of $func");
      $file{changes} += ($c =~ s{\bPerl_$func\([^)]+\)\{|?!aTHX_\?}{\1$func\2}\ge);
    }
  }
  else {
    warning("Uses Perl_$func instead of $func");
    $file{changes} += ($c =~ s{\bPerl_$func\([^)]+\)\{|?!aTHX_\?}{\1$func\2}\ge);
  }
}

for $func (sort keys %{$file{uses_replace}}) {
  warning("Uses $func instead of replace${func}");
  $file{changes} += ($c =~ s{\b$func\([^)]+\)\{|?!aTHX_\?}{\1replace\$func\2}\ge);
}

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\";
    $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 = "\n";
    $file{changes}++;
}

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

if ($pp) {
    $file{changes} += ($c =~ s/^(?=\$HS*\$HS*define\$HS+NEED_\w+.+)/\1$pp/ms)
        || ($c =~ s/^(?=\$HS*\$HS*include.*\Q$ppport\E.+/\1$pp/m)
        || ($c =~ s/^(?=\$HS*\$HS*include.*XSUB.\*\*\*)/\1$pp/m)
        || ($c =~ s/\$/\$pp/);
}
else {
    if ($file{has_inc_ppport}) {
        diag("No need to include '$ppport'");
        $file{changes} += ($c =~ s/\$/\$pp\n//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 = $warnings ? "$\text{warnings}$$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: $!");
            }
        }
    } elseif (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{$func}}) @{$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 "%.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/;

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$usage =~ s/([A-Z])<([^>]+)>/$1$2$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;
  $self =~ s/$HS+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
/m;
my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
$c =~ s{[[:graph:]][^[:graph:]]}{' '}{gsex};
open OUT, ">$0" or die "cannot strip $0: $\n";
print OUT "$pl$\n";
exit 0;
}

__DATA__
/*

Found in path(s):
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The SysV-IPC contains three packages

IPC::Semaphore
- Provides an object interface to using SysV IPC semaphores

IPC::Msg
- Provides an object interface to using SysV IPC messages

IPC::SysV
- Provides the constants required to use the system SysV IPC calls.

Currently there is not object support for SysV shared memory, but SysV::SharedMem is a project for the future.

Share and enjoy!

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*******************************************************************************/
abstract: 'System V IPC constants and system calls'
author:
  - 'Marcus Holland-Moritz <mhx@cpan.org>'
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.98, CPAN::Meta::Converter version 2.150001'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: IPC-SysV
no_index:
directory:
  - t
  - inc
requires:
  Test::More: '0.45'
version: '2.07'

---

1.687 oniguruma 6.9.4-1.el7.0atomix1

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https://github.com/dradtke/gotk3

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tomb - support for clean goroutine termination in Go.

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1.690 python-setuptools 41.0.0

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1.691 golang-snappy v0.0.3

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1.692 parent-join-client 6.8.3

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1.693 elfutils 0.179-2.el7_9.0atomix1

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<signature of Ty Coon>, 1 April 1989
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b) Convey the object code in, or embodied in, a physical product
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

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

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

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

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

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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.

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END OF TERMS AND CONDITIONS

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

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Version 3, 29 June 2007

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TERMS AND CONDITIONS

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

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

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

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

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

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

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6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms
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in one of these ways:

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(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.

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1.713 sqlite 3.32.3-1.el7_9.0atomix1

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/*
 ** CAPI3REF: Configuration Options
 ** KEYWORDS: {configuration option}
 **
 ** These constants are the available integer configuration options that
 ** can be passed as the first argument to the [sqlite3_config()] interface.
 **
 ** New configuration options may be added in future releases of SQLite.
 ** Existing configuration options might be discontinued. Applications
 ** should check the return code from [sqlite3_config()] to make sure that
 ** the call worked. The [sqlite3_config()] interface will return a
 ** non-zero [error code] if a discontinued or unsupported configuration option
 ** is invoked.
 **
 ** <dl>
 ** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
 ** <dd>There are no arguments to this option. This option sets the
 ** [threading mode] to Single-thread. In other words, it disables
 ** all mutixing and puts SQLite into a mode where it can only be used
** by a single thread.  ^If SQLite is compiled with
** the [SQLITE_THREADSAFE] [SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to change the [threading mode] from its default
** value of Single-thread and so [sqlite3_config()] will return
** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD
** configuration option.</dd>
**
** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Multi-thread.  In other words, it disables
** muting on [database connection] and [prepared statement] objects.
** The application is responsible for serializing access to
** [database connections] and [prepared statements].  But other mutexes
** are enabled so that SQLite will be safe to use in a multi-threaded
** environment as long as no two threads attempt to use the same
** [database connection] at the same time.  ^If SQLite is compiled with
** the [SQLITE_THREADSAFE] [SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Multi-thread [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
**
** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Serialized. In other words, this option enables
** all mutexes including the recursive
** mutexes on [database connection] and [prepared statement] objects.
** In this mode (which is the default when SQLite is compiled with
** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
** to [database connections] and [prepared statements] so that the
** application is free to use the same [database connection] or the
** same [prepared statement] in different threads at the same time.
** ^If SQLite is compiled with
** the [SQLITE_THREADSAFE] [SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Serialized [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_SERIALIZED configuration option.</dd>
**
** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_MALLOC option takes a single argument which is
** a pointer to an instance of the [sqlite3_mem_methods] structure.
** The argument specifies
** alternative low-level memory allocation routines to be used in place of
** the memory allocation routines built into SQLite.)^ ^SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>
**
** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_GETMALLOC option takes a single argument which
is a pointer to an instance of the [sqlite3_mem_methods] structure.
The [sqlite3_mem_methods] structure is filled with the currently defined memory allocation routines.
This option can be used to overload the default memory allocation routines with a wrapper that simulates memory allocation failure or tracks memory usage, for example.

** [[SQLITE_CONFIG_SMALL_MALLOC]] <dt>SQLITE_CONFIG_SMALL_MALLOC</dt>
** <dd>^The SQLITE_CONFIG_SMALL_MALLOC option takes single argument of type int, interpreted as a boolean, which if true provides a hint to SQLite that it should avoid large memory allocations if possible. SQLite will run faster if it is free to make large memory allocations, but some application might prefer to run slower in exchange for guarantees about memory fragmentation that are possible if large allocations are avoided. This hint is normally off.
**</dd>

** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd>^The SQLITE_CONFIG_MEMSTATUS option takes single argument of type int, interpreted as a boolean, which enables or disables the collection of memory allocation statistics. (When memory allocation statistics are disabled, the following SQLite interfaces become non-operational:
** <ul>
** <li>[sqlite3_hard_heap_limit64()]
** <li>[sqlite3_memory_used()]
** <li>[sqlite3_memory_highwater()]
** <li>[sqlite3_soft_heap_limit64()]
** <li>[sqlite3_status64()]
**</ul>)^Memory allocation statistics are enabled by default unless SQLite is compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory allocation statistics are disabled by default.
**</dd>

** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd>The SQLITE_CONFIG_SCRATCH option is no longer used.
**</dd>

** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd>^The SQLITE_CONFIG_PAGECACHE option specifies a memory pool that SQLite can use for the database page cache with the default page cache implementation. This configuration option is a no-op if an application-defined page cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2].
^There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to 8-byte aligned memory (pMem), the size of each page cache line (sz), and the number of cache lines (N).
The sz argument should be the size of the largest database page
** (a power of two between 512 and 65536) plus some extra bytes for each
** page header. ^The number of extra bytes needed by the page header
** can be determined using [SQLITE_CONFIG_PAGECACHE_HDRSZ].
** ^It is harmless, apart from the wasted memory,
** for the sz parameter to be larger than necessary. The pMem
** argument must be either a NULL pointer or a pointer to an 8-byte
** aligned block of memory of at least sz*N bytes, otherwise
** subsequent behavior is undefined.
** ^When pMem is not NULL, SQLite will strive to use the memory provided
** to satisfy page cache needs, falling back to [sqlite3_malloc()] if
** a page cache line is larger than sz bytes or if all of the pMem buffer
** is exhausted.
** ^If pMem is NULL and N is non-zero, then each database connection
** does an initial bulk allocation for page cache memory
** from [sqlite3_malloc()] sufficient for N cache lines if N is positive or
** of -1024*N bytes if N is negative. ^If additional
** page cache memory is needed beyond what is provided by the initial
** allocation, then SQLite goes to [sqlite3_malloc()] separately for each
** additional cache line. </dd>
**
** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** ^The SQLITE_CONFIG_HEAP option specifies a static memory buffer
** that SQLite will use for all of its dynamic memory allocation needs
** beyond those provided for by [SQLITE_CONFIG_PAGECACHE].
** ^The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled
** with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns
** [SQLITE_ERROR] if invoked otherwise.
** ^There are three arguments to SQLITE_CONFIG_HEAP:
** An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum allocation size.
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. ^If the
** memory pointer is not NULL then the alternative memory
** allocator is engaged to handle all of SQLites memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8.</dd>
**
** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
** ^The SQLITE_CONFIG_MUTEX option takes a single argument which is a
** pointer to an instance of the [sqlite3_mutex_methods] structure.
** The argument specifies alternative low-level mutex routines to be used
** in place the mutex routines built into SQLite. ^SQLite makes a copy of
** the content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()] returns. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_GETMUTEX option takes a single argument which
** is a pointer to an instance of the [sqlite3_mutex_methods] structure. The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines.)^
** This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
** profiling or testing, for example. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
** <dd> ^(The SQLITE_CONFIG_LOOKASIDE option takes two arguments that determine
** the default size of lookaside memory on each [database connection].
** The first argument is the
** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.)^^(SQLITE_CONFIG_LOOKASIDE
** sets the <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** option to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)^</dd>
**
** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_PCACHE2 option takes a single argument which is
** a pointer to an [sqlite3_pcache_methods2] object. This object specifies
** the interface to a custom page cache implementation.)^^
** ^SQLite makes a copy of the [sqlite3_pcache_methods2] object.</dd>
**
** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which
** is a pointer to an [sqlite3_pcache_methods2] object. SQLite copies of
** the current page cache implementation into that object.)^</dd>
**
** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
** global [error log].
** ^(The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
** function with a call signature of void(*)(void*,int,const char*),
** and a pointer to void. ^If the function pointer is not NULL, it is
** invoked by [sqlite3_log()] to process each logging event. ^If the
** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is
** passed through as the first parameter to the application-defined logger
** function whenever that function is invoked. ^The second parameter to
** the logger function is a copy of the first parameter to the corresponding
** [sqlite3_log()] call and is intended to be a [result code] or an
** [extended result code]. ^The third parameter passed to the logger is
** log message after formatting via [sqlite3_snprintf()].
** The SQLite logging interface is not reentrant; the logger function
** supplied by the application must not invoke any SQLite interface.
** In a multi-threaded application, the application-defined logger
** function must be threadsafe. </dd>
**
** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
** <dd>^The SQLITE_CONFIG_URI option takes a single argument of type int.
** If non-zero, then URI handling is globally enabled. If the parameter is zero,
** then URI handling is globally disabled.^ ^If URI handling is globally
** enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()],
** [sqlite3_open16()] or
** specified as part of [ATTACH] commands are interpreted as URIs, regardless
** of whether or not the [SQLITE_OPEN_URI] flag is set when the database
** connection is opened. ^If it is globally disabled, filenames are
** only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the
** database connection is opened. ^By default, URI handling is globally
** disabled. The default value may be changed by compiling with the
** [SQLITE_USE_URI] symbol defined.)^
**
** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN
** <dd>^The SQLITE_CONFIG_COVERING_INDEX_SCAN option takes a single integer
** argument which is interpreted as a boolean in order to enable or disable
** the use of covering indices for full table scans in the query optimizer.
** ^The default setting is determined
** by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
** if that compile-time option is omitted.
** The ability to disable the use of covering indices for full table scans
** is because some incorrectly coded legacy applications might malfunction
** when the optimization is enabled. Providing the ability to
** disable the optimization allows the older, buggy application code to work
** without change even with newer versions of SQLite.
**
** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
** <dd>These options are obsolete and should not be used by new code.
** They are retained for backwards compatibility but are now no-ops.
** </dd>
**
** [[SQLITE_CONFIG_SQLLOG]]
** <dt>SQLITE_CONFIG_SQLLOG
** <dd>This option is only available if sqlite is compiled with the
** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
** The second should be of type (void*). The callback is invoked by the library
** in three separate circumstances, identified by the value passed as the
** fourth parameter. If the fourth parameter is 0, then the database connection
** passed as the second argument has just been opened. The third argument
** points to a buffer containing the name of the main database file. If the
** fourth parameter is 1, then the SQL statement that the third parameter
** points to has just been executed. Or, if the fourth parameter is 2, then
** the connection being passed as the second parameter is being closed. The
** third parameter is passed NULL in this case. An example of using this
** configuration option can be seen in the "test_sqllog.c" source file in
** the canonical SQLite source tree.</dd>

** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd>^SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** ^The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control. ^The maximum allowed mmap size
** will be silently truncated if necessary so that it does not exceed the
** compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE] compile-time option.)^
** ^If either argument to this option is negative, then that argument is
** changed to its compile-time default.
**
** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]
** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE
** <dd>^The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
** that specifies the maximum size of the created heap.
**
** [[SQLITE_CONFIG_PCACHE_HDRSZ]]
** <dt>SQLITE_CONFIG_PCACHE_HDRSZ
** <dd>^The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which
** is a pointer to an integer and writes into that integer the number of extra
** bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
** The amount of extra space required can change depending on the compiler,
** target platform, and SQLite version.
**
** [[SQLITE_CONFIG_PMASZ]]
** <dt>SQLITE_CONFIG_PMASZ
** <dd>^The SQLITE_CONFIG_PMASZ option takes a single parameter which
** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
** sorter to that integer. The default minimum PMA Size is set by the
** [SQLITE_SORTER_PMASZ] compile-time option. New threads are launched
** to help with sort operations when multithreaded sorting
** is enabled (using the [PRAGMA threads] command) and the amount of content
** to be sorted exceeds the page size times the minimum of the
** [PRAGMA cache_size] setting and this value.
**
** [[SQLITE_CONFIG_STMTJRNL_SPILL]]
** <dt>SQLITE_CONFIG_STMTJRNL_SPILL
** <dd>*The SQLITE_CONFIG_STMTJRNL_SPILL option takes a single parameter which
** becomes the [statement journal] spill-to-disk threshold.
** [Statement journals] are held in memory until their size (in bytes)
** exceeds this threshold, at which point they are written to disk.
** Or if the threshold is -1, statement journals are always held
** exclusively in memory.
** Since many statement journals never become large, setting the spill
** threshold to a value such as 64KiB can greatly reduce the amount of
** I/O required to support statement rollback.
** The default value for this setting is controlled by the
** [SQLITE_STMTJRNL_SPILL] compile-time option.
**
** [[SQLITE_CONFIG_SORTERREF_SIZE]]
** <dt>SQLITE_CONFIG_SORTERREF_SIZE
** <dd>The SQLITE_CONFIG_SORTERREF_SIZE option accepts a single parameter
** of type (int) - the new value of the sorter-reference size threshold.
** Usually, when SQLite uses an external sort to order records according
** to an ORDER BY clause, all fields required by the caller are present in the
** sorted records. However, if SQLite determines based on the declared type
** of a table column that its values are likely to be very large - larger
** than the configured sorter-reference size threshold - then a reference
** is stored in each sorted record and the required column values loaded
** from the database as records are returned in sorted order. The default
** value for this option is to never use this optimization. Specifying a
** negative value for this option restores the default behaviour.
** This option is only available if SQLite is compiled with the
** [SQLITE_ENABLE_SORTER_REFERENCES] compile-time option.
**
** [[SQLITE_CONFIG_MEMDB_MAXSIZE]]
** <dt>SQLITE_CONFIG_MEMDB_MAXSIZE
** <dd>The SQLITE_CONFIG_MEMDB_MAXSIZE option accepts a single parameter
** [sqlite3_int64] parameter which is the default maximum size for an in-memory
** database created using [sqlite3_deserialize()]. This default maximum
** size can be adjusted up or down for individual databases using the
** [SQLITE_FCNTL_SIZE_LIMIT] [sqlite3_file_control|file-control]. If this
** configuration setting is never used, then the default maximum is determined
** by the [SQLITE_MEMDB_DEFAULT_MAXSIZE] compile-time option. If that
** compile-time option is not set, then the default maximum is 1073741824.
** */
*/

** The "printf" code that follows dates from the 1980's. It is in
** the public domain.
**
**************************************************************************
** This file contains code for a set of "printf"-like routines. These
** routines format strings much like the printf() from the standard C
** library, though the implementation here has enhancements to support
** SQLite.
*/
/*
** 2004 May 22
**
** The author disclaims copyright to this source code. In place of
** a legal notice, here is a blessing:
**
**  May you do good and not evil.
**  May you find forgiveness for yourself and forgive others.
**  May you share freely, never taking more than you give.
**
**************************************************************************
**
** This file contains the VFS implementation for unix-like operating systems
** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.
**
** There are actually several different VFS implementations in this file.
** The differences are in the way that file locking is done. The default
** implementation uses Posix Advisory Locks. Alternative implementations
** use flock(), dot-files, various proprietary locking schemas, or simply
** skip locking all together.
**
** This source file is organized into divisions where the logic for various
** subfunctions is contained within the appropriate division. PLEASE
** KEEP THE STRUCTURE OF THIS FILE INTACT. New code should be placed
** in the correct division and should be clearly labeled.
**
** The layout of divisions is as follows:
**
**  * General-purpose declarations and utility functions.
**  * Unique file ID logic used by VxWorks.
**  * Various locking primitive implementations (all except proxy locking):
**      + for Posix Advisory Locks
**      + for no-op locks
**      + for dot-file locks
**      + for flock() locking
**      + for named semaphore locks (VxWorks only)
**      + for AFP filesystem locks (MacOSX only)
**  * sqlite3_file methods not associated with locking.
**  * Definitions of sqlite3_io_methods objects for all locking
methods plus "finder" functions for each locking method.

* sqlite3_vfs method implementations.

* Locking primitives for the proxy uber-locking-method. (MacOSX only)

* Definitions of sqlite3_vfs objects for all locking methods

* plus implementations of sqlite3_os_init() and sqlite3_os_end().

/*

** Return a pointer to the "temporary page" buffer held internally
** by the pager. This is a buffer that is big enough to hold the
** entire content of a database page. This buffer is used internally
** during rollback and will be overwritten whenever a rollback
** occurs. But other modules are free to use it too, as long as
** no rollbacks are happening.
*/

/*

** CAPI3REF: Configuration Options

** KEYWORDS: {configuration option}

** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.

** New configuration options may be added in future releases of SQLite.

** Existing configuration options might be discontinued. Applications
** should check the return code from [sqlite3_config()] to make sure that
** the call worked. The [sqlite3_config()] interface will return a
** non-zero [error code] if a discontinued or unsupported configuration option
** is invoked.

**

** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>

** <dd>There are no arguments to this option. "This option sets the
** [threading mode] to Single-thread. In other words, it disables
** all mutixing and puts SQLite into a mode where it can only be used
** by a single thread. "If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to change the [threading mode] from its default
** value of Single-thread and so [sqlite3_config()] will return
** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD
** configuration option.</dd>

**

** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>

** <dd>There are no arguments to this option. "This option sets the
**threading mode** to Multi-thread. In other words, it disables mutexing on [database connection] and [prepared statement] objects. The application is responsible for serializing access to [database connections] and [prepared statements]. But other mutexes are enabled so that SQLite will be safe to use in a multi-threaded environment as long as no two threads attempt to use the same [database connection] at the same time. If SQLite is compiled with the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then it is not possible to set the Multi-thread [threading mode] and [sqlite3_config()] will return [SQLITE_ERROR] if called with the SQLITE_CONFIG_MULTITHREAD configuration option.

** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>**

** <dd>There are no arguments to this option. This option sets the [threading mode] to Serialized. In other words, this option enables all mutexes including the recursive mutexes on [database connection] and [prepared statement] objects. In this mode (which is the default when SQLite is compiled with [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access to [database connections] and [prepared statements] so that the application is free to use the same [database connection] or the same [prepared statement] in different threads at the same time. If SQLite is compiled with the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then it is not possible to set the Serialized [threading mode] and [sqlite3_config()] will return [SQLITE_ERROR] if called with the SQLITE_CONFIG_SERIALIZED configuration option.</dd>

** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>**

** <dd>^(The SQLITE_CONFIG_MALLOC option takes a single argument which is a pointer to an instance of the [sqlite3_mem_methods] structure. The argument specifies alternative low-level memory allocation routines to be used in place of the memory allocation routines built into SQLite.)^ SQLite makes its own private copy of the content of the [sqlite3_mem_methods] structure before the [sqlite3_config()] call returns.</dd>

** [[SQLITE_CONFIG_GETMalloc]] <dt>SQLITE_CONFIG_GETMalloc</dt>**

** <dd>^(The SQLITE_CONFIG_GETMalloc option takes a single argument which is a pointer to an instance of the [sqlite3_mem_methods] structure. The [sqlite3_mem_methods] structure is filled with the currently defined memory allocation routines.)^ This option can be used to overload the default memory allocation routines with a wrapper that simulates memory allocation failure or tracks memory usage, for example.</dd>

** [[SQLITE_CONFIG_SMALL_MALLOC]] <dt>SQLITE_CONFIG_SMALL_MALLOC</dt>**

** <dd>^The SQLITE_CONFIG_SMALL_MALLOC option takes single argument of
** type int, interpreted as a boolean, which if true provides a hint to
** SQLite that it should avoid large memory allocations if possible.
** SQLite will run faster if it is free to make large memory allocations,
** but some application might prefer to run slower in exchange for
** guarantees about memory fragmentation that are possible if large
** allocations are avoided. This hint is normally off.
** </dd>
**
** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd> The SQLITE_CONFIG_MEMSTATUS option takes single argument of type int,
** interpreted as a boolean, which enables or disables the collection of
** memory allocation statistics. (When memory allocation statistics are
** disabled, the following SQLite interfaces become non-operational:
** <ul>
** <li> [sqlite3_hard_heap_limit64()]
** <li> [sqlite3_memory_used()]
** <li> [sqlite3_memory_highwater()]
** <li> [sqlite3_soft_heap_limit64()]
** <li> [sqlite3_status64()]
** </ul>)
** ^Memory allocation statistics are enabled by default unless SQLite is
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
** allocation statistics are disabled by default.
** </dd>
**
** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd> The SQLITE_CONFIG_SCRATCH option is no longer used.
** </dd>
**
** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd> The SQLITE_CONFIG_PAGECACHE option specifies a memory pool
** that SQLite can use for the database page cache with the default page
** cache implementation.
** This configuration option is a no-op if an application-defined page
** cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2].
** ^There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to
** 8-byte aligned memory (pMem), the size of each page cache line (sz),
** and the number of cache lines (N).
** The sz argument should be the size of the largest database page
** (a power of two between 512 and 65536) plus some extra bytes for each
** page header. ^The number of extra bytes needed by the page header
** can be determined using [SQLITE_CONFIG_PCACHE_HDRSZ].
** ^It is harmless, apart from the wasted memory,
** for the sz parameter to be larger than necessary. The pMem
** argument must be either a NULL pointer or a pointer to an 8-byte
** aligned block of memory of at least sz*N bytes, otherwise
** subsequent behavior is undefined.
** ^When pMem is not NULL, SQLite will strive to use the memory provided
** to satisfy page cache needs, falling back to [sqlite3_malloc()] if
** a page cache line is larger than sz bytes or if all of the pMem buffer
** is exhausted.
** ^If pMem is NULL and N is non-zero, then each database connection
** does an initial bulk allocation for page cache memory
** from [sqlite3_malloc()] sufficient for N cache lines if N is positive or
** of -1024*N bytes if N is negative. ^If additional
** page cache memory is needed beyond what is provided by the initial
** allocation, then SQLite goes to [sqlite3_malloc()] separately for each
** additional cache line. </dd>
**
** ^[SQLITE_CONFIG_HEAP] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd> ^The SQLITE_CONFIG_HEAP option specifies a static memory buffer
** that SQLite will use for all of its dynamic memory allocation needs
** beyond those provided for by SQLITE_CONFIG_PAGECACHE.
** ^The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled
** with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns
** [SQLITE_ERROR] if invoked otherwise.
** ^There are three arguments to SQLITE_CONFIG_HEAP:
** An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum allocation size.
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. ^If the
** memory pointer is not NULL then the alternative memory
** allocator is engaged to handle all of SQLite's memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8.</dd>
**
** ^[SQLITE_CONFIG_MUTEX] <dt>SQLITE_CONFIG_MUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_MUTEX option takes a single argument which is a
** pointer to an instance of the [sqlite3_mutex_methods] structure.
** The argument specifies alternative low-level mutex routines to be used
** in place the mutex routines built into SQLite.)^ ^SQLite makes a copy of
** the content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()] returns. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** ^[SQLITE_CONFIG_GETMUTEX] <dt>SQLITE_CONFIG_GETMUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_GETMUTEX option takes a single argument which
** is a pointer to an instance of the [sqlite3_mutex_methods] structure. The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines.)^
This option can be used to overload the default mutex allocation routines with a wrapper used to track mutex usage for performance profiling or testing, for example. If SQLite is compiled with the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then the entire mutexing subsystem is omitted from the build and hence calls to [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will return [SQLITE_ERROR].

The SQLITE_CONFIG_LOOKASIDE option takes two arguments that determine the default size of lookaside memory on each database connection. The first argument is the size of each lookaside buffer slot and the second is the number of slots allocated to each database connection. ^SQLite makes a copy of the [sqlite3_pcache_methods2] object. SQLite copies of the current page cache implementation into that object.

The SQLITE_CONFIG_PCACHE2 option takes a single argument which is a pointer to an [sqlite3_pcache_methods2] object. This object specifies the interface to a custom page cache implementation. SQLite makes a copy of the [sqlite3_pcache_methods2] object.

The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which is a pointer to an [sqlite3_pcache_methods2] object. SQLite copies of the current page cache implementation into that object.

The SQLITE_CONFIG_LOG option is used to configure the SQLite global error log. The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a function with a call signature of void(*)(void*,int,const char*), and a pointer to void. If the function pointer is not NULL, it is invoked by [sqlite3_log()] to process each logging event. If the function pointer is NULL, the [sqlite3_log()] interface becomes a no-op. ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is passed through as the first parameter to the application-defined logger function whenever that function is invoked. ^The second parameter to the logger function is a copy of the first parameter to the corresponding [sqlite3_log()] call and is intended to be a [result code] or an [extended result code]. ^The third parameter passed to the logger is the log message after formatting via [sqlite3_snprintf()]. The SQLite logging interface is not reentrant; the logger function supplied by the application must not invoke any SQLite interface. In a multi-threaded application, the application-defined logger function must be threadsafe.
The SQLITE_CONFIG_URI option takes a single argument of type int. If non-zero, then URI handling is globally enabled. If the parameter is zero, then URI handling is globally disabled. If URI handling is globally enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()], [sqlite3_open16()] or specified as part of [ATTACH] commands are interpreted as URIs, regardless of whether or not the SQLITE_OPEN_URI flag is set when the database connection is opened. If it is globally disabled, filenames are only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the database connection is opened. (By default, URI handling is globally disabled. The default value may be changed by compiling with the SQLITE_USE_URI symbol defined.)

The SQLITE_CONFIG_COVERING_INDEX_SCAN option takes a single integer argument which is interpreted as a boolean in order to enable or disable the use of covering indices for full table scans in the query optimizer. The default setting is determined by the SQLITE_ALLOW_COVERING_INDEX_SCAN compile-time option, or is "on" if that compile-time option is omitted. The ability to disable the use of covering indices for full table scans is because some incorrectly coded legacy applications might malfunction when the optimization is enabled. Providing the ability to disable the optimization allows the older, buggy application code to work without change even with newer versions of SQLite.

These options are obsolete and should not be used by new code. They are retained for backwards compatibility but are now no-ops.

This option is only available if sqlite is compiled with the SQLITE_ENABLE_SQLLOG pre-processor macro defined. The first argument should be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int). The second should be of type (void*). The callback is invoked by the library in three separate circumstances, identified by the value passed as the fourth parameter. If the fourth parameter is 0, then the database connection passed as the second argument has just been opened. The third argument points to a buffer containing the name of the main database file. If the fourth parameter is 1, then the SQL statement that the third parameter points to has just been executed. Or, if the fourth parameter is 2, then the connection being passed as the second parameter is being closed. The third parameter is passed NULL In this case. An example of using this
** configuration option can be seen in the "test_sqllog.c" source file in
** the canonical SQLite source tree.\</dd>
**
** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd>^SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** ^The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control. ^[The maximum allowed mmap size
** will be silently truncated if necessary so that it does not exceed the
** compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE] compile-time option.)^
** ^If either argument to this option is negative, then that argument is
** changed to its compile-time default.
**
** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]
** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE
** <dd>^The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
** that specifies the maximum size of the created heap.
**
** [[SQLITE_CONFIG_PCACHE_HDRSZ]]
** <dt>SQLITE_CONFIG_PCACHE_HDRSZ
** <dd>^The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which
** is a pointer to an integer and writes into that integer the number of extra
** bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
** The amount of extra space required can change depending on the compiler,
** target platform, and SQLite version.
**
** [[SQLITE_CONFIG_PMASZ]]
** <dt>SQLITE_CONFIG_PMASZ
** <dd>^The SQLITE_CONFIG_PMASZ option takes a single parameter which
** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
** sorter to that integer. The default minimum PMA Size is set by the
** [SQLITE_SORTER_PMASZ] compile-time option. New threads are launched
** to help with sort operations when multithreaded sorting
** is enabled (using the [PRAGMA threads] command) and the amount of content
** to be sorted exceeds the page size times the minimum of the
** [PRAGMA cache_size] setting and this value.
**
** [[SQLITE_CONFIG_STMTJRNL_SPILL]]
** <dt>SQLITE_CONFIG_STMTJRNL_SPILL
** <dd>^The SQLITE_CONFIG_STMTJRNL_SPILL option takes a single parameter which
** becomes the [statement journal] spill-to-disk threshold.
** [Statement journals] are held in memory until their size (in bytes)
** exceeds this threshold, at which point they are written to disk.
** Or if the threshold is -1, statement journals are always held
** exclusively in memory.
** Since many statement journals never become large, setting the spill
** threshold to a value such as 64KiB can greatly reduce the amount of
** I/O required to support statement rollback.
** The default value for this setting is controlled by the
** [SQLITE_STMTJRNL_SPILL] compile-time option.
**
** [[SQLITE_CONFIG_SORTERREF_SIZE]]
** <dt>SQLITE_CONFIG_SORTERREF_SIZE
** <dd>The SQLITE_CONFIG_SORTERREF_SIZE option accepts a single parameter
** of type (int) - the new value of the sorter-reference size threshold.
** Usually, when SQLite uses an external sort to order records according
** to an ORDER BY clause, all fields required by the caller are present in the
** sorted records. However, if SQLite determines based on the declared type
** of a table column that its values are likely to be very large - larger
** than the configured sorter-reference size threshold - then a reference
** is stored in each sorted record and the required column values loaded
** from the database as records are returned in sorted order. The default
** value for this option is to never use this optimization. Specifying a
** negative value for this option restores the default behaviour.
** This option is only available if SQLite is compiled with the
** [SQLITE_ENABLE_SORTER_REFERENCES] compile-time option.
**
** [[SQLITE_CONFIG_MEMDB_MAXSIZE]]
** <dt>SQLITE_CONFIG_MEMDB_MAXSIZE
** <dd>The SQLITE_CONFIG_MEMDB_MAXSIZE option accepts a single parameter
** [sqlite3_int64] parameter which is the default maximum size for an in-memory
** database created using [sqlite3_deserialize()]. This default maximum
** size can be adjusted up or down for individual databases using the
** [SQLITE_FCNTL_SIZE_LIMIT] [sqlite3_file_control][file-control]. If this
** configuration setting is never used, then the default maximum is determined
** by the [SQLITE_MEMDB_DEFAULT_MAXSIZE] compile-time option. If that
** compile-time option is not set, then the default maximum is 1073741824.
**
*/

Found in path(s):
* /opt/cola/permits/1154067795_1625594828.48/0/sqlite-amalgamation-3320300-zip/sqlite-amalgamation-
3320300/sqlite3.h

1.714 javax-websocket-client-impl
9.4.27.v20200227
Open Source Used In APIC-SE-BATMAN 2.1.1d 8392

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Eclipse

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

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

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

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Oracle

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

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

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Oracle OpenJDK

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

* java.sun.security.ssl

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

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OW2

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

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Apache

The following artifacts are ASL2 licensed.

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

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MortBay

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

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by
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---

* DNS resolver (dirmngr/dns.c)

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

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lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.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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- 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
and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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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:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.1, CPAN::Meta::Converter version 2.150005'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Carp
no_index:
directory:
  - t
  - inc
requires:
  Config: '0'
  Exporter: '0'
  ExtUtils::MakeMaker: '0'
  IPC::Open3: '1.0103'
  Test::More: '0.47'
  overload: '0'
  strict: '0'
  warnings: '0'
  version: '1.38'
x_serialization_backend: 'CPAN::Meta::YAML version 0.017'

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548115_1591901898.54/0/perl-Carp-1.42-396.el8.src.rpm-cosi-expand-archive-6G9eXuF1/Carp-1.38.tar.gz-cosi-expand-archive-ok6zis0t/Carp-1.38/META.yml
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=head1 NAME

Carp - alternative warn and die for modules

=head1 SYNOPSIS

use Carp;

# warn user (from perspective of caller)
The Carp routines are useful in your own modules because they act like \texttt{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 \texttt{C<cluck()\> and C<confess()\>}, that context is a summary of every call in the call-stack; \texttt{C<longmess()\> returns the contents of the error message.}

For a shorter message you can use \texttt{C<carp()\> or C<croak()\> which report the error as being from where your module was called. \texttt{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.}

\texttt{C<Carp> takes care not to clobber the status variables \texttt{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:
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.

=item 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 \texttt{C<%Carp::CarpInternal>}. But it is slightly different for the summary message generated by \texttt{C<carp>} or \texttt{C<croak>}. There errors will not be reported on any lines that are calling packages in \texttt{C<%Carp::CarpInternal>}.

For example \texttt{C<Carp>} itself is listed in \texttt{C<%Carp::CarpInternal>}. Therefore the full stack backtrace from \texttt{C<confess>} will not start inside of \texttt{C<Carp>}, and the short message from calling \texttt{C<croak>} is not placed on the line where \texttt{C<croak>} was called.

=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<Carp>}’s functions. It is fairly easy to count these call frames on calls that generate a full stack backtrace. However it is much harder to do this accounting for calls that generate a short message. Usually people skip too many call frames. If they are lucky they skip enough that \texttt{C<Carp>} goes all of the way through the call stack, realizes that something is wrong, and then generates a full stack backtrace. If they are unlucky then the error is reported from somewhere misleading very high in the call stack.

Therefore it is best to avoid \texttt{C<$Carp::CarpLevel>}. Instead use \texttt{C<CARP_NOT>}, \texttt{C<%Carp::Internal>} and \texttt{C<%Carp::CarpInternal>}.

Defaults to \texttt{C<0>}.

=head1 BUGS

The \texttt{Carp} routines don’t handle exception objects currently. If called with a first argument that is a reference, they simply call \texttt{die()} or \texttt{warn()}, as appropriate.

=head1 SEE ALSO

\texttt{L<Carp::Always>}, \texttt{L<Carp::Clan>}

=head1 AUTHOR

The \texttt{Carp} module first appeared in Larry Wall’s perl 5.000 distribution. Since then it has been modified by several of the perl 5 porters. Andrew Main (Zefram) <zefram@fysh.org> divested \texttt{Carp} into an independent distribution.
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Found in path(s):
   * /opt/ws_local/PERMITS_SQL/1009548115_1591901898.54/0/perl-Carp-1.42-396.el8.src.rpm-cosi-expand-archive-6G9eXuF1/Carp-1.38.tar.gz-cosi-expand-archive-ok6zis0t/Carp-1.38/lib/Carp.pm

1.736 x-net v0.0.0-20200602114024-627f9648deb9

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1.737 sarama v1.22.2-0.20190604114437-cd910a683f9f

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1.739 man-db 2.6.3 9.el7

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package cloud

import (  
  "bytes"
  "io/ioutil"
  "os"
  "path/filepath"
  "strings"
  "testing"
)

var sentinels = []string{  
  "Copyright",
  "Google",
  "Licensed under the Apache License, Version 2.0 (the "License");",}
func TestLicense(t *testing.T) {
  t.Parallel()
  err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
    if err != nil {
      return err
    }
    if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
      return nil
    }
    if strings.HasSuffix(path, ".pb.go") {
      // .pb.go files are generated from the proto files.
      // .proto files must have license headers.
      return nil
    }
    if path == "bigtable/cmd/cbt/cbtdoc.go" {
      // Automatically generated.
      return nil
    }
    if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
      // BSD license, which is compatible, is embedded in the file.
      return nil
    }
    src, err := ioutil.ReadFile(path)
    if err != nil {
      return nil
    }
    src = src[:300] // Ensure all of the sentinel values are at the top of the file.

    // Find license
    for _, sentinel := range sentinels {
      if !bytes.Contains(src, []byte(sentinel)) {
        t.Errorf("%v: license header not present. want %q", path, sentinel)
        return nil
      }
    }

    return nil
  })
  if err != nil {
    t.Fatal(err)
  }
}

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

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1.750 geo-ip 1.5.0 14.el7

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  @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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

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

------

Oracle

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

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

------

Oracle OpenJDK

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

* java.sun.security.ssl

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

------

OW2

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

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

------

Apache

The following artifacts are ASL2 licensed.

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

------

MortBay

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

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

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

-----
Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

-----
Assorted

The UnixCrypt.java code implements the one way cryptography used by
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* /opt/cola/permits/1154644470_1618870926.16/0/decorator-3-4-0-1-tar-gz/decorator-3.4.0/src/decorator.py
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try:
    from setuptools import setup
except ImportError:
    from distutils.core import setup
import os, path

def getversion(fname):
    
"""Get the __version__ reading the file: works both in Python 2.X and 3.X,
whereas direct importing would break in Python 3.X with a syntax error
for line in open(fname):
    if line.startswith('__version__'):
        return eval(line[13:])
raise NameError('Missing __version__ in decorator.py')

VERSION = getversion(
    os.path.join(os.path.dirname(__file__), 'src/decorator.py'))

if __name__ == '__main__':
    setup(name='decorator',
          version=VERSION,
          description='Better living through Python with decorators',
          long_description=open('README.txt').read(),
          author='Michele Simionato',
          author_email='michele.simionato@gmail.com',
          url='http://pypi.python.org/pypi/decorator',
          license='BSD License',
          package_dir = {'': 'src'},
          py_modules = ['decorator'],
          keywords='decorators generic utility',
          platforms=['All'],
          classifiers=['Development Status :: 5 - Production/Stable',
                       'Intended Audience :: Developers',
                       'License :: OSI Approved :: BSD License',
                       'Natural Language :: English',
                       'Operating System :: OS Independent',
                       'Programming Language :: Python',
                       'Programming Language :: Python :: 3',
                       'Topic :: Software Development :: Libraries',
                       'Topic :: Utilities'],
          use_2to3=True,
          zip_safe=False)

Found in path(s):
* /opt/cola/permits/1154644470_1618870926.16/0/decorator-3.4.0-1.tar.gz/decorator-3.4.0/setup.py
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Decorator module

==================================
Installation
-------------

If you are lazy, just perform

$ easy_install decorator

which will install just the module on your system. Notice that Python 3 requires the easy_install version of the distribute project.

If you prefer to install the full distribution from source, including the documentation, download the tarball, unpack it and run

$ python setup.py install

in the main directory, possibly as superuser.

.. _tarball: http://pypi.python.org/pypi/decorator
.. _distribute: http://packages.python.org/distribute/

Testing
--------

For Python 2.5, 2.6, 2.7 run

$ python documentation.py

for Python 3.X run

$ python documentation3.py

You will see a few innocuous errors with Python 2.5, because some inner details such as the introduction of the ArgSpec namedtuple and Thread.__repr__ changed. You may safely ignore them.

You cannot run the tests in Python 2.4, since there is a test using the with statement, but the decorator module is expected to work anyway (it has been used in production with Python 2.4 for years). My plan is to keep supporting all Python versions >= 2.4 in the core module, but I will keep the documentation and the tests updated only for the latest Python versions in both the 2.X and 3.X branches.
Finally, notice that you may run into trouble if in your system there is an older version of the decorator module; in such a case remove the old version.

Documentation
--------------

There are various versions of the documentation:

- `HTML version (Python 2)`_
- `PDF version (Python 2)`_

- `HTML version (Python 3)`_
- `PDF version (Python 3)`_


Repository
-----------

The project is hosted on GoogleCode as a Mercurial repository. You can look at the source here:

http://code.google.com/p/micheles/source/browse/#hg%2Fdecorator

Found in path(s):
* /opt/cola/permits/1154644470_1618870926.16/0/decorator-3-4-0-1-tar-gz/decorator-3.4.0/README.txt

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Metadata-Version: 1.1
Name: decorator
Version: 3.4.0
Summary: Better living through Python with decorators
Home-page: http://pypi.python.org/pypi/decorator
Author: Michele Simionato
Author-email: michele.simionato@gmail.com
License: BSD License
Description: Decorator module

:Author: Michele Simionato
:E-mail: michele.simionato@gmail.com
:Requires: Python 2.4+
Installation

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

If you are lazy, just perform

```
$ easy_install decorator
```

which will install just the module on your system. Notice that Python 3 requires the easy_install version of the distribute project.

If you prefer to install the full distribution from source, including the documentation, download the tarball_, unpack it and run

```
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```

in the main directory, possibly as superuser.

.. _tarball: http://pypi.python.org/pypi/decorator
 .. _distribute: http://packages.python.org/distribute/

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```
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Keywords: decorators generic utility
Platform: All
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Natural Language :: English
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 3
Classifier: Topic :: Software Development :: Libraries
Classifier: Topic :: Utilities

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* /opt/cola/permits/1154644470_1618870926.16/0/decorator-3.4.0-1-tar-gz/decorator-3.4.0/src/decorator.egg-info/PKG-INFO
* /opt/cola/permits/1154644470_1618870926.16/0/decorator-3.4.0-1-tar-gz/decorator-3.4.0/PKG-INFO
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* /opt/cola/permits/1154644470_1618870926.16/0/decorator-3-4-0-1-tar-gz/decorator-3.4.0/documentation3.py

1.757 jackson-databind 2.12.1
1.757.1 Available under license :

# Jackson JSON processor

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1.761 x-crypto v0.0.0-20200220183623-bac4c82f6975

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1.762 jetty-annotations 9.4.27.v20200227

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

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

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

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

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Oracle OpenJDK

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* java.sun.security.ssl

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

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OW2

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

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

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.764 coreutils 8.30 7.el8_2.1

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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/DCPathButton/Classes/DCPathItemButton.m
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/DCPathButton/Classes/DCPathItemButton.m
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/DCPathButton/Classes/DCPathItemButton.m
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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/AppExample/AppDelegate.m
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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/AppExample/Pods/DCPathButton/DCPathButton/Classes/DCPathItemButton.h
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Pod::Spec.new do |s|
  s.name = "DCPathButton"
  s.version = "2.1.1"
  s.summary = "A beautiful button copy from Path®"
end
DCPathButton is a menu button, design by an famous App Path®. Since Path® 4.0, it return to use a tab bar instead of a side bar, and also change the menu button. So I try to implement it and then the DCPathButton born :) DESC

s.homepage = "https://github.com/Tangdixi/DCPathButton"

s.license = {
:type => 'MIT',
text => 'The DCPathButton use the MIT license'
}

s.author = { "Tangdixi" => "Tangdixi@gmail.com" }

s.platform = :ios, '7.0'

s.source = {
:git => "https://github.com/Tangdixi/DCPathButton.git",
tag => "2.1.1"
}

s.source_files = 'DCPathButton/Classes/*.{h,m}'

s.resources = ['DCPathButton/Sounds/*']

s.frameworks = 'QuartzCore','AudioToolbox'

s.requires_arc = true

end

Found in path(s):
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/DCPathButton.podspec
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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/BarButtonItemViewController.m

1.776 json-c 0.13.1 0.2.el8
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1.787 guble 2.2.3
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1.793 systemd 219-78.el7

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# binary only, patch it back to the system, and then use a wrapper

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* /opt/cola/permits/1160879685_1620412725.56/0/pallets-click-7-1-1-0-gef1dd69-1-tar-gz/pallets-click-ef1dd69/src/click/_compat.py
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```python
import io
import re
from setuptools import find_packages
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
    readme = f.read()

with io.open("src/click/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r'__version__ = "(.*)"', f.read()).group(1)

setup(
    name="click",
    version=version,
    url="https://palletsprojects.com/p/click/",
    project_urls={
        "Documentation": "https://click.palletsprojects.com/",
        "Code": "https://github.com/pallets/click",
        "Issue tracker": "https://github.com/pallets/click/issues",
    },
)```
As the userbase of Click grows, more and more major feature requests pop up in Click's bugtracker. As reasonable as it may be for those features to be bundled with Click instead of being a standalone project, many of those requested features are either highly experimental or have unproven practical use, while potentially being a burden to maintain.

This is why click-contrib_ exists. The GitHub organization is a collection of possibly experimental third-party packages whose feature set does not belong into Click, but also a playground for major features that may be added to Click in the future. It is also meant to coordinate and concentrate effort on writing third-party extensions for Click, and to ease the effort of searching for such extensions. In that sense it could be described as a low-maintenance alternative to extension repositories of other frameworks.

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.. _click-contrib: https://github.com/click-contrib/

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## 1.797 shadow 4.2-3+deb8u3

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c ispell-local-pdict: "ispell-dict"
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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

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1.807 snake-yaml 1.17
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1.808 x-tools v0.0.0-20200702044944-0cc1aa72b347

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package copyright

import (
    "os"
    "path/filepath"
    "strings"
    "testing"
)

func TestToolsCopyright(t *testing.T) {
cwd, err := os.Getwd()
if err != nil {
    t.Fatal(err)
}

tools := filepath.Dir(cwd)
if !strings.HasSuffix(filepath.Base(tools), "tools") {
    t.Fatalf("current working directory is %s, expected tools", tools)
}
files, err := checkCopyright(tools)
if err != nil {
    t.Fatal(err)
}
if len(files) > 0 {
    t.Errorf("The following files are missing copyright notices:
%s", strings.Join(files, 
"\n"))
}
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//go:generate ./gen-licenses.sh licenses.go
package hooks

const licensesText = `-- github.com/BurntSushi/toml COPYING --
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// Package copyright checks that files have the correct copyright notices.
package copyright
import (  
"go/ast"  
"go/parser"  
"go/token"  
"io/ioutil"  
"os"  
"path/filepath"  
"regexp"  
"strings"  
)

func checkCopyright(dir string) ([]string, error) {  
var files []string  
err := filepath.Walk(dir, func(path string, info os.FileInfo, err error) error {  
if err != nil {  
return err  
}  
if info.IsDir() {  
// Skip directories like ".git".  
if strings.HasPrefix(info.Name(), ".") {  
return filepath.SkipDir  
}  
return nil  
}  
needsCopyright, err := checkFile(dir, path)  
if err != nil {  
return nil  
}  
if needsCopyright {  
files = append(files, path)  
}  
return nil  
})  
return files, err  
}

var copyrightRe = regexp.MustCompile(`Copyright \d{4} The Go Authors. All rights reserved. Use of this source code is governed by a BSD-style license that can be found in the LICENSE file.`)

func checkFile(toolsDir, filename string) (bool, error) {  
// Only check Go files.  
if !strings.HasSuffix(filename, "go") {  
return false, nil  
}  
// Don't check testdata files.  
normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
if strings.Contains(normalized, "/testdata") {
    return false, nil
}

// goyacc is the only file with a different copyright header.
if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
    return false, nil
}

content, err := ioutil.ReadFile(filename)
if err != nil {
    return false, err
}

fset := token.NewFileSet()
parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
if err != nil {
    return false, err
}

// Don't require headers on generated files.
if isGenerated(fset, parsed) {
    return false, nil
}

shouldAddCopyright := true
for _, c := range parsed.Comments {
    // The copyright should appear before the package declaration.
    if c.Pos() > parsed.Package {
        break
    }
    if copyrightRe.MatchString(c.Text()) {
        shouldAddCopyright = false
        break
    }
}

return shouldAddCopyright, nil

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
// https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text); !matched {
                continue
            }
            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {
                return true
            }
        }
    }
    return false
}
package hooks

import (
    "crypto/sha256"
    "encoding/hex"
    "io/ioutil"
    "testing"
)

func TestLicenses(t *testing.T) {
    sumBytes, err := ioutil.ReadFile("../../go.sum")
    if err != nil {
        t.Fatal(err)
    }
    sumSum := sha256.Sum256(sumBytes)
    if licensesGeneratedFrom != hex.EncodeToString(sumSum[:]) {
        t.Error("combined license text needs updating. Run: `go generate ./internal/hooks` from the gopls module.")
    }
}

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1.810 atom-cmd-statscollect 1.59.0

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1.811 pcre 8.35-3.3+deb8u4

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

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compiler/cpp/src/generate/t_java_generator.cc
compiler/cpp/src/generate/t_ocaml_generator.cc
compiler/cpp/src/generate/t_perl_generator.cc
For the `aclocal/ax_boost_base.m4` and `contrib/fb303/aclocal/ax_boost_base.m4` components:

```
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   L. Peter Deutsch
   ghost@aladdin.com

   */
```

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```
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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root
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1.816 perl-b-debug 1.26-2.el8

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The End

1.817 gofuzz v1.0.0
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1.818 perl-pod-escapes 1.07-395.el8

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548111_1591901918.14/0/perl-Pod-Escapes-1.07-395.el8.src.rpm-cosi-expand-archive-AcQ8bnL/perl-Pod-Escapes.spec

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=heal NAME
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...

This module provides things that are useful in decoding Pod EE<lt>...E<gt> sequences. Presumably, it should be used only by Pod parsers and/or formatters.

By default, Pod::Escapes exports none of its symbols. But you can request any of them to be exported. Either request them individually, as with
C<use Pod::Escapes qw(symbolname symbolname2...);>,
or you can do C<use Pod::Escapes qw(:ALL)> to get all exportable symbols.

=over
=item e2char($e_content)

Given a name or number that could appear in a C<EE<lt>name_or_numE<gt>> sequence, this returns the string that it stands for. For example, C<e2char('sol')>, C<e2char('47')>, C<e2char('0x2f')>, and C<e2char('057')> all return "/", because C<EE<lt>solE<gt>>, C<EE<lt>47E<gt>>, C<EE<lt>0x2fE<gt>>, and C<EE<lt>057E<gt>>, all mean "/". If the name has no known value (as with a name of "qacute") or is syntactically invalid (as with a name of "1/4"), this returns undef.

=item e2charnum($e_content)

Given a name or number that could appear in a C<EE<lt>name_or_numE<gt>> sequence, this returns the number of the Unicode character that this stands for. For example, C<e2char('sol')>, C<e2char('47')>, C<e2char('0x2f')>, and C<e2char('057')> all return 47, because C<EE<lt>solE<gt>>, C<EE<lt>47E<gt>>, C<EE<lt>0x2fE<gt>>, and C<EE<lt>057E<gt>>,
and `C<lt>057E<gt>`, all mean "/'", whose Unicode number is 47. If the name has no known value (as with a name of "qacute") or is syntactically invalid (as with a name of "1/4"), this returns undef.

=item $Name2character{I<name>}

Maps from names (as in `C<lt>I<name>E<gt>`) like "eacute" or "sol" to the string that each stands for. Note that this does not include numerics (like "64" or "x981c"). Under old Perl versions (before 5.7) you get a "?" in place of characters whose Unicode value is over 255.

=item $Name2character_number{I<name>}

Maps from names (as in `C<lt>I<name>E<gt>`) like "eacute" or "sol" to the Unicode value that each stands for. For example, `C<$Name2character_number{'eacute'}>` is 201, and `C<$Name2character_number{'eacute'}>` is 8364. You get the correct Unicode value, regardless of the version of Perl you're using -- which differs from `%Name2character`'s behavior under pre-5.7 Perls.

Note that this hash does not include numerics (like "64" or "x981c").

=item $Latin1Code_to_fallback{I<Integer>}

For numbers in the range 160 (0x00A0) to 255 (0x00FF), this maps from the character code for a Latin-1 character (like 233 for lowercase e-acute) to the US-ASCII character that best approximates it (like "e"). You may find this useful if you are rendering POD in a format that you think deals well only with US-ASCII characters.

=item $Latin1Char_to_fallback{I<Character>}

Just as above, but maps from characters (like "xE9", lowercase e-acute) to characters (like "e").

=item $Code2USASCII{I<Integer>}

This maps from US-ASCII codes (like 32) to the corresponding character (like space, for 32). Only characters 32 to 126 are defined. This is meant for use by `C<e2char($x)>` when it senses that it's running on a non-ASCII platform (where chr(32) doesn't get you a space -- but $Code2USASCII{32} will). It's documented here just in case you might find it useful.

=back
=head1 CAVEATS

On Perl versions before 5.7, Unicode characters with a value over 255 (like lambda or emdash) can't be conveyed. This module does work under such early Perl versions, but in the place of each such character, you get a "?". Latin-1 characters (characters 160-255) are unaffected.

Under EBCDIC platforms, C<e2char($n)> may not always be the same as C<chr(e2charnum($n))>, and ditto for C<$Name2character{$Name}> and C<chr($Name2character_number{$Name})>, because the strings are returned as native, and the numbers are returned as Unicode. However, for Perls starting with v5.8, C<e2char($n)> is the same as C<chr(utf8::unicode_to_native(e2charnum($n)))>, and ditto for C<$Name2character{$Name}> and C<chr(utf8::unicode_to_native($Name2character_number{$Name}))>.

=head1 SEE ALSO

L<Pod::Browser> - a pod web server based on L<Catalyst>.

L<Pod::Checker> - check pod documents for syntax errors.

L<Pod::Coverage> - check if the documentation for a module is comprehensive.

L<perlpod> - description of pod format (for people documenting with pod).

L<perlpodspec> - specification of pod format (for people processing it).

L<Text::Unidecode> - ASCII transliteration of Unicode text.

=head1 REPOSITORY

L<https://github.com/neilbowers/Pod-Escapes>

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Portions of the data tables in this module are derived from the
entity declarations in the W3C XHTML specification.
Currently (October 2001), that's these three:
http://www.w3.org/TR/xhtml1/DTD/xhtml-lat1.ent
http://www.w3.org/TR/xhtml1/DTD/xhtml-special.ent
http://www.w3.org/TR/xhtml1/DTD/xhtml-symbol.ent
=head1 AUTHOR
Sean M. Burke C<sburke@cpan.org>
Now being maintained by Neil Bowers E<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 $file...\n";
while(<IN>) {
if(m/<!ENTITY\s+(\S+)\s+"&#([^;]+);">/) {
my($name, $value) = ($1,$2);
next if $name eq 'quot' or $name eq 'apos' or $name eq 'gt';
$value = hex $1 if $value =~ m/^x([a-fA-F0-9]+)$/s;
print "ILLEGAL VALUE $value" unless $value =~ m/^\d+$/s;
if($value > 255) {
push @good , sprintf " %-10s , chr(%s),\n", "'$name'", $value;
push @bad , sprintf " %-10s , \$bad,\n", "'$name'", $value;
} else {
push @norms, sprintf " %-10s , chr(%s),\n", "'$name'", $value;
}
} elsif(m/<!ENT/) {
print "# Skipping $_";
}
}

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close(IN);
}

print @norms;
print "un ($] \neq 5.006001 \? (un";
print @good;
print " ) : (un";
print @bad;
print " )
);

__END__
#~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548111_1591901918.14/0/perl-Pod-Escapes-1.07-395.el8.src.rpm-cosi-expand-archive-AcQE8bnL/Pod-Escapes-1.07.tar.gz-cosi-expand-archive-GKGiQNjB/Pod-Escapes-1.07/lib/Pod/Escapes.pm

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---
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'
Found in path(s):

1.819 json-smart 2.4.7
1.819.1 Available under license:

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 */

Found in path(s):
* /opt/cola/permits/1160226211_1620275398.98/0/json-smart-2-4-7-sources-jar/net/minidev/json/parser/JSONParserReader.java
* /opt/cola/permits/1160226211_1620275398.98/0/json-smart-2-4-7-sources-jar/net/minidev/json/parser/ParseException.java
* /opt/cola/permits/1160226211_1620275398.98/0/json-smart-2-4-7-sources-jar/net/minidev/json/JSONNavi.java
* /opt/cola/permits/1160226211_1620275398.98/0/json-smart-2-4-7-sources-jar/net/minidev/json/parser/JSONParserMemory.java
* /opt/cola/permits/1160226211_1620275398.98/0/json-smart-2-4-7-sources-jar/net/minidev/json/writer/ArraysMapper.java
* /opt/cola/permits/1160226211_1620275398.98/0/json-smart-2-4-7-sources-jar/net/minidev/json/writer/CollectionMapper.java
* /opt/cola/permits/1160226211_1620275398.98/0/json-smart-2-4-7-sources-jar/net/minidev/json/writer/FakeMapper.java
* /opt/cola/permits/1160226211_1620275398.98/0/json-smart-2-4-7-sources-jar/net/minidev/json/writer/BeansMapper.java
* /opt/cola/permits/1160226211_1620275398.98/0/json-smart-2-4-7-sources-jar/net/minidev/json/parser/JSONParserByteArray.java
* /opt/cola/permits/1160226211_1620275398.98/0/json-smart-2-4-7-sources-jar/net/minidev/json/parser/JSONParserString.java
* /opt/cola/permits/1160226211_1620275398.98/0/json-smart-2-4-7-sources-jar/net/minidev/json/JSONAware.java
* /opt/cola/permits/1160226211_1620275398.98/0/json-smart-2-4-7-sources-jar/net/minidev/json/parser/JSONParser.java
* /opt/cola/permits/1160226211_1620275398.98/0/json-smart-2-4-7-sources-jar/net/minidev/json/JSONUtil.java
* /opt/cola/permits/1160226211_1620275398.98/0/json-smart-2-4-7-sources-jar/net/minidev/json/writer/DefaultMapperOrdered.java
* /opt/cola/permits/1160226211_1620275398.98/0/json-smart-2-4-7-sources-jar/net/minidev/json/JSONValue.java
* /opt/cola/permits/1160226211_1620275398.98/0/json-smart-2-4-7-sources-jar/net/minidev/json/writer/CompessorMapper.java
* /opt/cola/permits/1160226211_1620275398.98/0/json-smart-2-4-7-sources-jar/net/minidev/json/JSONArray.java
* /opt/cola/permits/1160226211_1620275398.98/0/json-smart-2-4-7-sources-jar/net/minidev/json/writer/DefaultMapperCollection.java
* /opt/cola/permits/1160226211_1620275398.98/0/json-smart-2-4-7-sources-jar/net/minidev/json/JSONStreamAware.java
* /opt/cola/permits/1160226211_1620275398.98/0/json-smart-2-4-7-sources-jar/net/minidev/json/parser/JSONParserBase.java
* /opt/cola/permits/1160226211_1620275398.98/0/json-smart-2-4-7-sources-jar/net/minidev/json/writer/JsonReader.java
* /opt/cola/permits/1160226211_1620275398.98/0/json-smart-2-4-7-sources-jar/net/minidev/json/parser/JSONParserInputStream.java
* /opt/cola/permits/1160226211_1620275398.98/0/json-smart-2-4-7-sources-jar/net/minidev/json/JStylerObj.java
* /opt/cola/permits/1160226211_1620275398.98/0/json-smart-2-4-7-sources-jar/net/minidev/json/JSONAwareEx.java
* /opt/cola/permits/1160226211_1620275398.98/0/json-smart-2-4-7-sources-jar/net/minidev/json/JSONStyle.java
* /opt/cola/permits/1160226211_1620275398.98/0/json-smart-2-4-7-sources-jar/net/minidev/json/writer/JsonReaderI.java
* /opt/cola/permits/1160226211_1620275398.98/0/json-smart-2-4-7-sources-jar/net/minidev/json/parser/JSONParserInputStream.java
* /opt/cola/permits/1160226211_1620275398.98/0/json-smart-2-4-7-sources-jar/net/minidev/json/JStylerObj.java
* /opt/cola/permits/1160226211_1620275398.98/0/json-smart-2-4-7-sources-jar/net/minidev/json/JSONAwareEx.java
* /opt/cola/permits/1160226211_1620275398.98/0/json-smart-2-4-7-sources-jar/net/minidev/json/JSONStyle.java

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1.820 opencontainers-umoci v0.4.7-0.20200704224433-977db481b72c

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1.822 perl-config-perl-v 0.30-1.el8

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abstract: Structured data retrieval of perl -V output
author:
  - H.Merijn Brand <h.m.brand@xs4all.nl>
build_requires:
  perl: '5.006'
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: Author, 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: Config-Perl-V
provides:
  Config::Perl::V:
    file: V.pm
    version: '0.30'
requires:
  Config: 0
  Test::More: 0
  Test::NoWarnings: 0
  perl: '5.006'
resources:
  license: http://dev.perl.org/licenses/
  repository: https://github.com/Tux/Config-Perl-V
  version: '0.30'

Found in path(s):
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=head1 NAME

Config::Perl::V - Structured data retrieval of perl -V output

=head1 SYNOPSIS

use Config::Perl::V;

my $local_config = Config::Perl::V::myconfig ();
print $local_config->{config}->{osname};

=head1 DESCRIPTION

=head2 $conf = myconfig ()

This function will collect the data described in L<the hash structure> below, and return that as a hash reference. It optionally accepts an option to include more entries from %ENV. See L<environment> below.

Note that this will not work on uninstalled perls when called with C<-I/path/to/uninstalled/perl/lib>, but it works when that path is in C<SPEARL5LIB> or in C<SPEARL5OPT>, as paths passed using C<-I> are not known when the C<-V> information is collected.

=head2 $conf = plv2hash ($text [, ...])
Convert a sole ‘perl -V’ text block, or list of lines, to a complete myconfig hash. All unknown entries are defaulted.

=head2 $info = summary ($conf)

Return an arbitrary selection of the information. If no $conf is given, myconfig () is used instead.

=head2 $md5 = signature ($conf)

Return the MD5 of the info returned by summary () without the config_args entry.

If Digest::MD5 is not available, it return a string with only 0's.

=head2 The hash structure

The returned hash consists of 4 parts:

=over 4

=item build

This information is extracted from the second block that is emitted by perl -V, and usually looks something like

Characteristics of this binary (from libperl):
  Compile-time options: DEBUGGING USE_64_BIT_INT USE_LARGE_FILES
  Locally applied patches:
    defined-or
    MAINT24637
  Built under linux
  Compiled at Jun 13 2005 10:44:20
@INC:
  /usr/lib/perl5/5.8.7/i686-linux-64int
  /usr/lib/perl5/5.8.7
  /usr/lib/perl5/site_perl/5.8.7/i686-linux-64int
  /usr/lib/perl5/site_perl/5.8.7
  /usr/lib/perl5/site_perl

or

Characteristics of this binary (from libperl):
  Compile-time options: DEBUGGING MULTIPLICITY
  PERL_DONT_CREATE_GVSV PERL_IMPLICIT_CONTEXT
  PERL_MALLOC_WRAP PERL_TRACK_MEMPOOL
PERL_USE_SAFE_PUTENV USE_ITHREADS
USE_LARGE_FILES USE_PERLIO
USE_REENTRANT_API
Built under linux
Compiled at Jan 28 2009 15:26:59

This information is not available anywhere else, including C<%Config>,
but it is the information that is only known to the perl binary.

The extracted information is stored in 5 entries in the C<build> hash:

=over 4

=item osname

This is most likely the same as C<$Config{osname}>, and was the name
known when perl was built. It might be different if perl was cross-compiled.

The default for this field, if it cannot be extracted, is to copy
C<$Config{osname}>. The two may be differing in casing (OpenBSD vs openbsd).

=item stamp

This is the time string for which the perl binary was compiled. The default
value is 0.

=item options

This is a hash with all the known defines as keys. The value is either 0,
which means unknown or unset, or 1, which means defined.

=item derived

As some variables are reported by a different name in the output of C<perl -V>
than their actual name in C<%Config>, I decided to leave the C<config> entry
as close to reality as possible, and put in the entries that might have been
guessed by the printed output in a separate block.

=item patches

This is a list of optionally locally applied patches. Default is an empty list.

=back

=item environment

By default this hash is only filled with the environment variables
out of %ENV that start with C<PERL>, but you can pass the C<env> option
to myconfig to get more

my $conf = Config::Perl::V::myconfig ({ env => qr/^ORACLE/ });
my $conf = Config::Perl::V::myconfig ({ env => qr/^ORACLE/ });

=item config

This hash is filled with the variables that `perl -V` fills its report
with, and it has the same variables that `Config::myconfig` returns
from `Config`.

=item inc

This is the list of default @INC.

=back

t=ead1 REASONING

This module was written to be able to return the configuration for the
currently used perl as deeply as needed for the CPANTESTERS framework.
Up until now they used the output of myconfig as a single text blob,
and so it was missing the vital binary characteristics of the running
perl and the optional applied patches.

=ead1 BUGS

Please feedback what is wrong

=ead1 TODO

* Implement retrieval functions/methods
* Documentation
* Error checking
* Tests

=ead1 AUTHOR

H.Merijn Brand <h.m.brand@xs4all.nl>

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=cut
Config::Perl::V

A module that will return you the output of `perl -V` in a structure.

DESCRIPTION

The command `perl -V` will return you an excerpt from the `%Config` hash combined with the output of `perl -V` that is not stored inside `%Config`, but only available to the perl binary itself.

PREREQUISITES

A working perl

BUILDING AND INSTALLATION

As most perl modules

$ perl Makefile.PL
$ make test
$ make install UNINST=1

SOURCE CODE

Recent changes can be (re)viewed in the public GIT repository at http://repo.or.cz/w/Config-Perl-V
Feel free to clone your own copy:

$ git clone https://github.com/Tux/Config-Perl-V Config-Perl-V

or get it as a tgz:

$ wget --output-document=Config-Perl-V.tgz \  https://github.com/Tux/Config-Perl-V/archive/master.tar.gz

CHANGES

See Changelog

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1.824 rank-eval-client 6.8.3

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1.825 log-rotate 3.8.6 19.el7

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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.
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It was downloaded from ftp://ftp.gnu.org/gnu/findutils

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* @(#)ip_var.h 8.1 (Berkeley) 6/10/93
* ip_var.h,v 1.10 1995/05/30 08:09:50 rgrimes Exp
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* Hack by Pierre Beyssac (pb@fasterix.freenix.fr), based on FreeBSD ping.
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* Original ping author -
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*U. S. Army Ballistic Research Laboratory
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* ip.h,v 1.5 1995/05/30 08:09:33 rgrimes Exp
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1.838 xorg-randr 1.5.1

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1.839 perl 5.20.2-3+deb8u6

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

---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the\n    Module-Build mailing list at <module-build@perl.org>.'"
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
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The End

#!perl
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.

```perl
use strict;
use Config;
BEGIN { require './test.pl' }

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so # that tests still pass for people intentionally working on older versions:
if ($opt eq '--now') {
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else {
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;
```
sub readme_year
# returns the latest copyright year from the top-level README file
{

open my $readme, '<', '../README' or die "Opening README failed: $!";

# The copyright message is the first paragraph:
local $/ = "";
my $copyright_msg = <$readme>;

my ($year) = $copyright_msg =~ /.*\d{4,}\b/;  # Match any number of digits
  or die "Year not found in README copyright message '$copyright_msg'";

$year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{

my $output = runperl switches => ['-v'];
my ($year) = $output =~ /copyright \d{4,}/i;  # Match any number of digits
  or die "Copyright statement not found in perl -v output '$output'";

$year;
}

The "Artistic License"

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1.840 python37 3.7.9-3.el7_9.0atomix2
1.840.1 Available under license:
No license file was found, but licenses were detected in source scan.

License: Python

Found in path(s):
* /opt/cola/permits/1171240917_1627324786.27/0/python37-python37-3-7-9-3-el7-9-0atomix2-zip/python37-
python37-3.7.9-3.el7_9.0atomix2/python37.spec

1.841 perl-pod-usage 1.69 395.el8
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1.842 fipscheck 1.4.1 6.el7

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1.843 augeas 1.4.0 2.el7
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 * */
/**
 * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 * */
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package spec

import "testing"

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

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

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject

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

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  jar/io/netty/handler/pcap/UDPPacket.java
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* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
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* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
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* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/pcap/IPPacket.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
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* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
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* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
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* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
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jar/io/netty/handler/ssl/JdkSslEngine.java
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* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
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* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
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* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
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* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1.jar/io/netty/handler/ssl/SslContextBuilder.java
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* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1.jar/io/netty/handler/ssl/util/LazyJavaxX509Certificate.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1.jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java

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

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* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/ssl/OpenSslClientSessionCache.java
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  jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
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  jar/io/netty/handler/ssl/SniCompletionEvent.java
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* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
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jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
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jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
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* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/ipfilter/IpSubnetFilter.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/ssl/SslClosedEngineException.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/address/ResolveAddressHandler.java

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Found in path(s):
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/util/SelfSignedCertificate.java

1.859 jackc-chunkreader v2.0.1
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1.861 selinux 2.5-14.1.el7

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

---
abstract: 'Build and install Perl modules'
author:
   - 'Ken Williams <kwilliams@cpan.org>'
   - "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>.'
build_requires:
   File::Temp: 0.15
   Test::Harness: 3.16
   Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
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    Gnomovision version 69, Copyright (C) 19xx 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 parts of the General Public License. Of course, the
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    program `Gnomovision' (a program to direct compilers to make passes
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    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

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    The End
    #!perl

    =head1 NAME

    copyright.t
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.

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
  skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;
my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
  my $current_year = (gmtime)[5] + 1900;
  is $v_year, $current_year, 'perl -v copyright includes current year';
  is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
  is $readme_year, $v_year, 'README and perl -v copyright dates match';
}
done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
open my $readme, '<', '../README' or die "Opening README failed: $!";

# The copyright message is the first paragraph:
local $/ = "
my $copyright_msg = <$readme>;

my ($year) = $copyright_msg =~ /.*\d\d\d\d\b\d\d\/.s
   or die "Year not found in README copyright message '$copyright_msg'");

$year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
my $output = runperl switches => ['-v'];
my ($year) = $output =~ /copyright \d\d\d\d\b\d\d\d\d\b\d\d\/.i
   or die "Copyright statement not found in perl -v output '$output'");

$year;
}

1.863 libmetalink 0.1.3 7.el8
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1.864 cyphar-filepath-securejoin v0.2.2

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1.865 open-ldap 2.4.44-22.el7_7.0atomix1

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1.866 netty-handler 4.1.50.Final

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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
  jar/io/netty/handler/stream/ChunkedStream.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
  jar/io/netty/handler/ssl/package-info.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
  jar/io/netty/handler/timeout/IdleStateEvent.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
  jar/io/netty/handler/timeout/TimeoutException.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
  jar/io/netty/handler/timeout/package-info.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
  jar/io/netty/handler/timeout/IdleStateEvent.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-

jar/io/netty/handler/timeout/IdleStateHandler.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/timeout/WriteTimeoutHandler.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/SslHandler.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/stream/ChunkedInput.java
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3.6.2

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1.869 perl-text-template 1.51-1.el8

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=head1 NAME

Exporter - Implements default import method for modules

=head1 SYNOPSIS

In module F<YourModule.pm>:

package YourModule;
require Exporter;
@ISA = qw(Exporter);
@EXPORT_OK = qw(munge frobnicate);  # symbols to export on request

or

package YourModule;
use Exporter 'import'; # gives you Exporter's import() method directly
@EXPORT_OK = qw(munge frobnicate);  # symbols to export on request

In other files which wish to use C<YourModule>:

use YourModule qw(frobnicate);      # import listed symbols
frobnicate ($left, $right)          # calls YourModule::frobnicate

Take a look at L</Good Practices> for some variants
you will like to use in modern Perl code.

=head1 DESCRIPTION

The Exporter module implements an 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.

```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.

=head2 Selecting What to Export

Do <b>not</b> export method names!

Do <b>not</b> export anything else by default without a good reason!

Exports pollute the namespace of the module user. If you must export try to use <tt>C:@EXPORT_OK</tt> in preference to <tt>C:@EXPORT</tt> 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 <tt>C:YourModule::item_name</tt> (or <tt>C:<< $blessed_ref->method >></tt>) 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 <tt>C:@EXPORT_OK</tt> anything but use <tt>C:@EXPORT</tt> 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:
This imports all the symbols from YourModule's @EXPORT into the namespace of the use statement.

This causes perl to load your module but does not import any symbols.

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.

=head1 Advanced Features

=head2 Specialised Import Lists

If any of the entries in an import list begins with !, : or / then the list is treated as a series of specifications which either add to or delete from the list of names to import. They are processed left to right. Specifications are in the form:

[!]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., F<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)]);
Note that you cannot use tags in @EXPORT or @EXPORT_OK.

Names in EXPORT_TAGS must also appear in @EXPORT or @EXPORT_OK.

An application using Module can say something like:

```perl
use Module qw(:DEFAULT :T2 !B3 A3);
```

Other examples include:

```perl
use Socket qw(!/^\[AP\]F_/ !SOMAXCONN !SOL_SOCKET);
use POSIX  qw(:,errno_h :termios_h !TCSADRAIN !/^EXIT/);
```

Remember that most patterns (using //) will need to be anchored with a leading ^, e.g., C</^EXIT/> rather than C</EXIT/>.

You can say C<BEGIN { $Exporter::Verbose=1 } > to see how the specifications are being processed and what is actually being imported into modules.

=head2 Exporting Without Using Exporter's import Method

Exporter has a special method, 'export_to_level' which is used in situations where you can't directly call Exporter's import method. The export_to_level method looks like:

```perl
MyPackage->export_to_level(
$where_to_export, $package, @what_to_export );
```

where C<$where_to_export> is an integer telling how far up the calling stack to export your symbols, and C<$package> 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;
  A->export_to_level(1, @_);
}
```

This will export the symbols one level 'above' the current package - i.e. 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 <code>C<require_version></code>.

Since the <code>C<UNIVERSAL::VERSION></code> method treats the <code>C<$VERSION></code> 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 <code>C<@EXPORT_FAIL></code> 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-&gt;export_fail(@failed_symbols);
```

If the <code>C<export_fail></code> 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 <code>C<export_fail></code> method which simply returns the list unchanged.

Uses for the <code>C<export_fail></code> method include giving better error messages for some symbols and performing lazy architectural checks (put more symbols into <code>C<@EXPORT_FAIL></code> 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 <code>C<%EXPORT_TAGS></code> must also appear in either <code>C<@EXPORT></code> or <code>C<@EXPORT_OK></code>, two utility functions are provided which allow you to easily add tagged sets of symbols to <code>C<@EXPORT></code> or <code>C<@EXPORT_OK></code>:

```perl
%EXPORT_TAGS = (foo =&gt; [qw(aa bb cc)], bar =&gt; [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 <code>C<@EXPORT></code> or <code>C<@EXPORT_OK></code> unchanged but will trigger a warning (with <code>C<-w></code>) 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:

\%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<br!/perl/sub> 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 `BEGIN` block:

```perl
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 `used`.

=head1 Good Practices

=head2 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.

```perl
our @ISA = qw(Exporter);
our @EXPORT_OK = qw(munge frobnicate);
```

If backward compatibility for Perls under 5.6 is important, one must write instead a `use vars` statement.

```perl
use vars qw(@ISA @EXPORT_OK);
@ISA = qw(Exporter);
@EXPORT_OK = qw(munge frobnicate);
```

=head2 Playing Safe

There are some caveats with the use of runtime statements like `require Exporter` and the assignment to package variables, which can be very subtle for the unaware programmer. This may happen for instance with mutually recursive modules, which are affected by the time the relevant constructions are executed.

The ideal (but a bit ugly) way to never have to think
about that is to use 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 C<BEGIN> will assure that the loading of F<Exporter.pm>
and the assignments to C:@ISA> and C:@EXPORT_OK> happen
immediately, leaving no room for something to get awry
or just plain wrong.

With respect to loading C<Exporter> and inheriting, there
are alternatives with the use of modules like C<base> and C<parent>.

use base qw(Exporter);
    # or
use parent qw(Exporter);

Any of these statements are nice replacements for
C<BEGIN { require Exporter; @ISA = qw(Exporter); }>
with the same compile-time effect. The basic difference
is that C<base> code interacts with declared C<fields>
while C<parent> is a streamlined version of the older
C<base> code to just establish the IS-A relationship.

For more details, see the documentation and code of
L<base> and L<parent>.

Another thorough remedy to that runtime
vs. compile-time trap is to use L<Exporter::Easy>,
which is a wrapper of Exporter that allows all
boilerplate code at a single gulp in the
use statement.

use Exporter::Easy (
    OK => [ qw(munge frobnicate) ],
);  # @ISA setup is automatic
    # all assignments happen at compile time
What Not to Export

You have been warned already in Selecting What to Export to not export:

- Over 4 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.

```perl
@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.

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. 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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---
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

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/**
 * A [@link WebApplicationContext] that can be used to bootstrap itself from a contained
 * [@link ServletWebServerFactory] bean.
 * This context will create, initialize and run an [@link WebServer] by searching for a
 * single [@link ServletWebServerFactory] bean within the [@link ApplicationContext]
 * itself. The [@link ServletWebServerFactory] is free to use standard Spring concepts
 * (such as dependency injection, lifecycle callbacks and property placeholder variables).
 * In addition, any [@link Servlet] or [@link Filter] beans defined in the context will be
 * automatically registered with the web server. In the case of a single Servlet bean, the
 * '/' mapping will be used. If multiple Servlet beans are found then the lowercase bean
 * name will be used as a mapping prefix. Any Servlet named 'dispatcherServlet' will
 * always be mapped to '/'. Filter beans will be mapped to all URLs ('/*').
 * For more advanced configuration, the context can instead define beans that implement
 * the [@link ServletContextInitializer] interface (most often
 * [@link ServletRegistrationBean]s and/or [@link FilterRegistrationBean]s). To prevent
 * double registration, the use of [@link ServletContextInitializer] beans will disable
 * automatic Servlet and Filter bean registration.
 * Although this context can be used directly, most developers should consider using the
 * [@link AnnotationConfigServletWebServerApplicationContext] or
 * [@link XmlServletWebServerApplicationContext] variants.
 *
 * @author Phillip Webb
 * @author Dave Syer
 * @since 2.0.0
 */

Found in path(s):
1.879 nghttp2 1.33.0 3.el8_2.1

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set yrange [0:]
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set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
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1.880 ebtables 2.0.10.4-3

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1.890 perl-extutils-parsexs 3.35-2.el8

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NAME

ExtUtils::ParseXS - converts Perl XS code into C code

SYNOPSIS

use ExtUtils::ParseXS;

my $pxs = ExtUtils::ParseXS->new;
$pxs->process_file( filename => 'foo.xs' );

$pxs->process_file( filename => 'foo.xs',
   output => 'bar.c',
);
'C++' => 1,
typemap => 'path/to/typemap',
hiertype => 1,
except => 1,
versioncheck => 1,
linenumbers => 1,
optimize => 1,
prototypes => 1,
);

# Legacy non-OO interface using a singleton:
use ExtUtils::ParseXS qw(process_file);
process_file( filename => 'foo.xs' );

DESCRIPTION
"ExtUtils::ParseXS" will compile XS code into C code by embedding the
constructs necessary to let C functions manipulate Perl values and
creates the glue necessary to let Perl access those functions. The
compiler uses typemaps to determine how to map C function parameters and
variables to Perl values.

The compiler will search for typemap files called *typemap*. It will use
the following search path to find default typemaps, with the rightmost
typemap taking precedence.

   ../../../typemap:../../typemap:../typemap:typemap

EXPORT
None by default. "process_file()" and/or "report_error_count()" may be
exported upon request. Using the functional interface is discouraged.

METHODS
$pxs->new()
   Returns a new, empty XS parser/compiler object.

$pxs->process_file()
   This method processes an XS file and sends output to a C file. The
   method may be called as a function (this is the legacy interface)
   and will then use a singleton as invocant.

   Named parameters control how the processing is done. The following
   parameters are accepted:

   C++ Adds "extern "C"" to the C code. Default is false.

   hiertype
   Retains ":.;" in type names so that C++ hierarchical types can be
   mapped. Default is false.
except
   Adds exception handling stubs to the C code. Default is false.

.typemap
   Indicates that a user-supplied typemap should take precedence
   over the default typemaps. A single typemap may be specified as
   a string, or multiple typemaps can be specified in an array
   reference, with the last typemap having the highest precedence.

.prototypes
   Generates prototype code for all xsubs. Default is false.

.versioncheck
   Makes sure at runtime that the object file (derived from the
   ".xs" file) and the ".pm" files have the same version number.
   Default is true.

.linenumbers
   Adds "#line" directives to the C output so error messages will
   look like they came from the original XS file. Default is true.

.optimize
   Enables certain optimizations. The only optimization that is
   currently affected is the use of *target*s by the output C code
   (see perl guts). Not optimizing may significantly slow down the
   generated code, but this is the way xsubpp of 5.005 and earlier
   operated. Default is to optimize.

.inout
   Enable recognition of "IN", "OUT_LIST" and "INOUT_LIST"
   declarations. Default is true.

.argtypes
   Enable recognition of ANSI-like descriptions of function
   signature. Default is true.

   *Maintainer note:* I have no clue what this does. Strips
   function prefixes?

$pxs->report_error_count()
   This method returns the number of [a certain kind of] errors
   encountered during processing of the XS file.

   The method may be called as a function (this is the legacy
   interface) and will then use a singleton as invocant.

AUTHOR
Based on xsubpp code, written by Larry Wall.

Maintained by:

* Ken Williams, <ken@mathforum.org>
* David Golden, <dagolden@cpan.org>
* James Keenan, <jkeenan@cpan.org>
* Steffen Mueller, <smueller@cpan.org>

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SEE ALSO
perl, ExtUtils::xsubpp, ExtUtils::MakeMaker, perlxs, perlxstut.

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=head1 NAME

ExtUtils::ParseXS - converts Perl XS code into C code

=head1 SYNOPSIS

use ExtUtils::ParseXS;

my $pxs = ExtUtils::ParseXS->new;
$pxs->process_file( filename => 'foo.xs' );
$pxs->process_file( filename => 'foo.xs',
    output => 'bar.c',
    'C++' => 1,
    typemap => 'path/to/typemap',
    hiertype => 1,
    except => 1,
    versioncheck => 1,
    linenumbers => 1,
    optimize => 1,
    prototypes => 1,
);)

# Legacy non-OO interface using a singleton:
use ExtUtils::ParseXS qw(process_file);
process_file( filename => 'foo.xs' );

=head1 DESCRIPTION

C<ExtUtils::ParseXS> will compile XS code into C code by embedding the constructs necessary to let C functions manipulate Perl values and creates the glue necessary to let Perl access those functions. The compiler uses typemaps to determine how to map C function parameters and variables to Perl values.

The compiler will search for typemap files called I<typemap>. It will use the following search path to find default typemaps, with the rightmost typemap taking precedence.

    ../../../typemap:../../typemap:../typemap:typemap

=head1 EXPORT

None by default. C<process_file()> and/or C<report_error_count()> may be exported upon request. Using the functional interface is discouraged.

=head1 METHODS

=over 4

=item $pxs->new()

Returns a new, empty XS parser/compiler object.

=item $pxs->process_file()

This method processes an XS file and sends output to a C file. The method may be called as a function (this is the legacy interface) and will then use a singleton as invocant.
Named parameters control how the processing is done.
The following parameters are accepted:

-over 4

- **item B<C++>**

  Adds C<extern "C"> to the C code. Default is false.

- **item B<hiertype>**

  Retains C<::> in type names so that C++ hierarchical types can be mapped. Default is false.

- **item B<except>**

  Adds exception handling stubs to the C code. Default is false.

- **item B<typemap>**

  Indicates that a user-supplied typemap should take precedence over the default typemaps. A single typemap may be specified as a string, or multiple typemaps can be specified in an array reference, with the last typemap having the highest precedence.

- **item B<prototypes>**

  Generates prototype code for all xsubs. Default is false.

- **item B<versioncheck>**

  Makes sure at run time that the object file (derived from the C<.xs> file) and the C<.pm> files have the same version number. Default is true.

- **item B<linenumbers>**

  Adds C<#line> directives to the C output so error messages will look like they came from the original XS file. Default is true.

- **item B<optimize>**

  Enables certain optimizations. The only optimization that is currently affected is the use of I<target>s by the output C code (see L<perlguts>). Not optimizing may significantly slow down the generated code, but this is the way B<xsubpp> of 5.005 and earlier operated. Default is to optimize.
Enable recognition of `C<IN>`, `C<OUT_LIST>` and `C<INOUT_LIST>`
declarations. Default is true.

Enable recognition of ANSI-like descriptions of function signature.
Default is true.

I<Maintainer note:> I have no clue what this does. Strips function prefixes?

This method returns the number of [a certain kind of] errors
encountered during processing of the XS file.

The method may be called as a function (this is the legacy
interface) and will then use a singleton as invocant.

Based on xsubpp code, written by Larry Wall.

Maintained by:

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James Keenan, <jkeenan@cpan.org>
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=head1 SEE ALSO

L<perl>, ExtUtils::xsubpp, ExtUtils::MakeMaker, L<perlxs>, L<perlxstat>.

=cut

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---
abstract: 'converts Perl XS code into C code'
author:  
  - 'Ken Williams <ken@mathforum.org>'
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '6.46'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.0401, CPAN::Meta::Converter version 2.150005'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: ExtUtils-ParseXS
no_index:
directory:
  - t
  - inc
requires:
  Carp: '0'
Cwd: '0'
DynaLoader: '0'
Exporter: '5.57'
ExtUtils::CBuilder: '0'
ExtUtils::MakeMaker: '6.46'
File::Basename: '0'
File::Spec: '0'
Symbol: '0'
Test::More: '0.47'
resources:
  bugtracker: http://rt.perl.org/rt3/
  repository: git://perl5.git.perl.org/gitroot/perl.git
version: '3.35'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

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=head1 NAME

ExtUtils::Typemaps::Cmd - Quick commands for handling typemaps

=head1 SYNOPSIS

From XS:

INCLUDE_COMMAND: $^X -MExtUtils::Typemaps::Cmd \-e "print embeddable_typemap(q{Excommunicated})"

Loads C<ExtUtils::Typemaps::Excommunicated>, instantiates an object, and dumps it as an embeddable typemap for use directly in your XS file.

=head1 DESCRIPTION

This is a helper module for L<ExtUtils::Typemaps> for quick one-liners, specifically for inclusion of shared typemaps that live on CPAN into an XS file (see SYNOPSIS).

For this reason, the following functions are exported by default:

=head1 EXPORTED FUNCTIONS

=head2 embeddable_typemap

Given a list of identifiers, C<embeddable_typemap>
tries to load typemaps from a file of the given name(s),
or from a module that is an C<ExtUtils::Typemaps> subclass.

Returns a string representation of the merged typemaps that can
be included verbatim into XS. Example:

    print embeddable_typemap(
        "Excommunicated", "ExtUtils::Typemaps::Basic", "./typemap"
    );

This will try to load a module C<ExtUtils::Typemaps::Excommunicated>
and use it as an C<ExtUtils::Typemaps> subclass. If that fails, it'll
try loading C<Excommunicated> as a module, if that fails, it'll try to
read a file called F<Excommunicated>. It'll work similarly for the
second argument, but the third will be loaded as a file first.

After loading all typemap files or modules, it will merge them in the
specified order and dump the result as an embeddable typemap.

=head1 SEE ALSO

L<ExtUtils::Typemaps>

L<perlxs>

=head1 AUTHOR

Steffen Mueller C<<smueller@cpan.org>>

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=head1 SEE ALSO

L<ExtUtils::Typemaps>
Open Source Used In APIC-SE-BATMAN 2.1.1d 9874

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* /opt/cola/permits/1178585024_1625692181.32/0/perl-ExtUtils-ParseXS-3.35-2.el8-1.src.rpm-cosi-expand-archive-bekpeO8y/ExtUtils-ParseXS-3.35.tar.gz-cosi-expand-archive-tD0Ewyio/ExtUtils-ParseXS-3.35/lib/ExtUtils/Typemaps/InputMap.pm
* /opt/cola/permits/1178585024_1625692181.32/0/perl-ExtUtils-ParseXS-3.35-2.el8-1.src.rpm-cosi-expand-archive-bekpeO8y/ExtUtils-ParseXS-3.35.tar.gz-cosi-expand-archive-tD0Ewyio/ExtUtils-ParseXS-3.35/lib/ExtUtils/Typemaps/OutputMap.pm

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=head1 CAVEATS

Inherits some evil code from C<ExtUtils::ParseXS>.

=head1 SEE ALSO

The parser is heavily inspired from the one in L<ExtUtils::ParseXS>.

For details on typemaps: L<perlxstut>, L<perlxs>.

=head1 AUTHOR

Steffen Mueller C<<smueller@cpan.org>>

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1.891 talloc 2.1.5-1.el7_2
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1.904 gophercloud v0.3.0
1.904.1 Available under license:

    package RESOURCE

    import (
      "github.com/gophercloud/gophercloud"
      "github.com/gophercloud/gophercloud/pagination"
    )

    // RESOURCE represents...
    type Resource struct {
    }

    type commonResult struct {
      gophercloud.Result
    }

    // GetResult is the response from a Get operation. Call its Extract method
    // to interpret it as a RESOURCE.
    type GetResult struct {
      commonResult
    }

    // CreateResult is the response from a Create operation. Call its Extract method
    // to interpret it as a RESOURCE.
    type CreateResult struct {
      commonResult
    }

    // DeleteResult is the response from a Delete operation. Call its ExtractErr to
    // determine if the request succeeded or failed.
    type DeleteResult struct {
      gophercloud.ErrResult
    }
// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
    commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
    pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            Next string `json:"next"`
            Previous string `json:"previous"
        } `json:"links"
    }
    err := r.ExtractInto(&s)
    if err != nil {
        return "", err
    }
    return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
    var s struct {
        Resources []Resource `json:"resources"
    }
    err := (r.(ResourcePage)).ExtractInto(&s)
    return s.Resources, err
}

// Extract interprets any commonResult as a Resource.
func (r commonResult) Extract() (*Resource, error) {
    var s struct {
        Resource *Resource `json:"resource"
    }
    err := (r.(commonResult)).ExtractInto(&s)
    return s.Resource, err
}
This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](/.github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](/.github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.
### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* https://github.com/gophercloud/gophercloud/pull/584
* https://github.com/gophercloud/gophercloud/pull/586
* https://github.com/gophercloud/gophercloud/pull/587
* https://github.com/gophercloud/gophercloud/pull/594

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request
---------------------------------

Each Pull Request should contain the following:
1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're testing with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

Dealing with Related Pull Requests
----------------------------------

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```shell
$ git checkout master
```
Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:
* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child
  Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and
proceed to [Step 6](step-06-code-review.md).

**Step 6: Code Review**

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional
changes to your code.

While you're working on the finishing touches to your code, it is helpful
to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull
Request. As well, take advantage of the automatic testing that is done to
each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all
of your code. Travis will also report errors with unit tests, so you should
ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have
provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review
----------------------

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used).

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes
-------------------

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal
-------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.
Please don’t take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

```go
go
package testing

import (   "fmt"
            "net/http"
            "testing"

            "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
            th "github.com/gophercloud/gophercloud/testhelper"
            "github.com/gophercloud/gophercloud/testhelper/client"
)

// ListResult provides a single page of RESOURCE results.
const ListResult = `   {
   }`

// GetResult provides a Get result.
const GetResult = `   {
   }`

// CreateRequest provides the input to a Create request.
const CreateRequest = `   {
   }`

// UpdateRequest provides the input to as Update request.
const UpdateRequest = `   {
   }`

// UpdateResult provides an update result.
const UpdateResult = `   

---

Open Source Used In APIC-SE-BATMAN 2.1.1d 9954
// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{
}

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{
}

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{
}

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, ListResult)
    })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusCreated)
        fmt.Fprintf(w, CreateResult)
    })
}
th.TestMethod(t, r, "POST")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
th.TestJSONRequest(t, r, CreateRequest)

w.WriteHeader(http.StatusCreated)
fmt.Fprintf(w, GetResult)
}
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "DELETE")
    th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
    w.WriteHeader(http.StatusNoContent)
})
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "PATCH")
    th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
    th.TestJSONRequest(t, r, UpdateRequest)
    w.WriteHeader(http.StatusOK)
    fmt.Fprintf(w, UpdateResult)
})
}

package RESOURCE

import (  
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}
// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
q, err := gophercloud.BuildQueryString(opts)
return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
url := listURL(client)
if opts != nil {
query, err := opts.ToResourceListQuery()
if err != nil {
return pagination.Pager{Err: err}
}
url += query
}
return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
})
}

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
_, r.Err = client.Get(getURL(client, id), &r.Body, nil)
return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
b, err := opts.ToResourceCreateMap()
if err != nil {
    r.Err = err
}
return
}

_, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
  OkCodes: []int{201},
})
return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
  _, r.Err = client.Delete(deleteURL(client, id), nil)
  return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
  ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
  return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
  b, err := opts.ToResourceUpdateMap()
  if err != nil {
    r.Err = err
    return
  }
  _, r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
    OkCodes: []int{200},
  })
  return
}

package testing

import (
  "testing"

  "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
  "github.com/gophercloud/gophercloud/pagination"
func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0
        count++
        actual, err := resources.ExtractResources(page)
        th.AssertNoErr(t, err)
        th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
        return true, nil
    })
    th.AssertNoErr(t, err)
    th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
    actual, err := resources.ExtractResources(allPages)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleGetResourceSuccessfully(t)

    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
defer th.TeardownHTTP()
HandleCreateResourceSuccessfully(t)

createOpts := resources.CreateOpts{
Name: "resource two",
}

actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
th.SetupHTTP()
defer th.TeardownHTTP()
HandleDeleteResourceSuccessfully(t)

res := resources.Delete(client.ServiceClient(), "9fe1d3")
th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
th.SetupHTTP()
defer th.TeardownHTTP()
HandleUpdateResourceSuccessfully(t)

updateOpts := resources.UpdateOpts{
Description: "Staging Resource",
}

actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

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package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}
func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

Step 7: Congratulations!
=================================

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

Step 4: Acceptance Testing
=================================

If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

```Go
/*
Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE
```
Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/
package RESOURCE
Step 2: Create an Issue
========================

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug
-------------

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
* https://github.com/gophercloud/gophercloud/issues/647

Feature Request
-------------

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is to start a discussion about whether or not the feature should be included in Gophercloud. We don't want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

#### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.
Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.
### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* [https://github.com/gophercloud/gophercloud/issues/539](https://github.com/gophercloud/gophercloud/issues/539)
* [https://github.com/gophercloud/gophercloud/issues/555](https://github.com/gophercloud/gophercloud/issues/555)
* [https://github.com/gophercloud/gophercloud/issues/571](https://github.com/gophercloud/gophercloud/issues/571)
* [https://github.com/gophercloud/gophercloud/issues/583](https://github.com/gophercloud/gophercloud/issues/583)
* [https://github.com/gophercloud/gophercloud/issues/605](https://github.com/gophercloud/gophercloud/issues/605)

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service’s Python code. These links are not required for _issues_, but it’s usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* [https://github.com/gophercloud/gophercloud/issues/723](https://github.com/gophercloud/gophercloud/issues/723)

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

Step 3: Code Hunting

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

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621). In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package.
Meaning, we want to change:

```go
type Network struct {
    ID           string   `json:"
Name         string   `json:"name"
AdminStateUp bool     `json:"admin_state_up"
Status       string   `json:"status"
Subnets      []string `json:"subnets"
TenantID     string   `json:"tenant_id"
Shared       bool     `json:"shared"
}
```

to look like

```go
type Network struct {
    ID                    string   `json:"
Name                  string   `json:"name"
AdminStateUp          bool     `json:"admin_state_up"
Status                string   `json:"status"
Subnets               []string `json:"subnets"
TenantID              string   `json:"tenant_id"
Shared                bool     `json:"shared"

AvailabilityZoneHints []string `json:"availability_zone_hints"
}
```

We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/).

However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are not implying that the API docs aren't useful or that the contributors who work on the API docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields,
the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[]`string`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Code Hunting Tips
-----------------

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

Step 1: Read Our Guides

========================
There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

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

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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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1.915 debian-archive-keyring 2014.3

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Found in path(s):
* /opt/cola/permits/1178587648_1625691811.72/0/perl-IPC-Cmd-1.02-1.el8-1.src.rpm-cosi-expand-archive-kstgiDNh/perl-IPC-Cmd.spec
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This is the README file for IPC::Cmd -- a cross platform way of running (interactive) commandline programs.

Please type "perldoc IPC::Cmd" after installation to see the module usage information.

###########################################################

* Description

IPC::Cmd

Allows for the searching and execution of any binary on your system.

It adheres to verbosity settings and is able to run interactive. It also has an option to capture output/error buffers.

###########################################################

* Installation

IPC::Cmd uses the standard perl module install process:

perl Makefile.PL
make
make test
make install

###########################################################

AUTHOR

This module by Jos Boumans <kane@cpan.org>.

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* /opt/cola/permits/1178587648_1625691811.72/0/perl-IPC-Cmd-1.02-1.el8-1.src.rpm-cosi-expand-archive-kstgiDNh/IPC-Cmd-1.02.tar.gz-cosi-expand-archive-bIIIMjLP/IPC-Cmd-1.02/README
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---
abstract: 'A cross platform way of running (interactive) commandline programs.'
author:
- 'Jos Boumans <kane[at]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 2.150010'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: IPC-Cmd
no_index:
directory:
  - t
  - inc
requires:
  ExtUtils::MakeMaker: '0'
File::Spec: '0'
File::Temp: '0'
Locale::Maketext::Simple: '0'
Module::Load::Conditional: '0.66'
Params::Check: '0.20'
Test::More: '0'
resources:
  repository: https://github.com/jib/ipc-cmd
version: '1.02'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
* /opt/cola/permits/1178587648_1625691811.72/0/perl-IPC-Cmd-1.02-1.el8-1.src.rpm-cosi-expand-archive-kstgiDNh/IPC-Cmd-1.02.tar.gz-cosi-expand-archive-bIIIMjLP/IPC-Cmd-1.02/META.yml
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=head2 $q = QUOTE
Returns the character used for quoting strings on this platform. This is usually a C<'>' (single quote) on most systems, but some systems use different quotes. For example, C<Win32> uses C<'"'> (double quote).

You can use it as follows:

```perl
use IPC::Cmd qw[run QUOTE];
my $cmd = q[echo ] . QUOTE . q[foo bar] . QUOTE;
```

This makes sure that C<foo bar> is treated as a string, rather than two separate arguments to the C<echo> function.

=head1 HOW IT WORKS

C<run> will try to execute your command using the following logic:

=over 4

=item *

If you have C<IPC::Run> installed, and the variable C<$IPC::Cmd::USE_IPC_RUN> is set to true (See the L<"Global Variables"> section) use that to execute the command. You will have the full output available in buffers, interactive commands are sure to work and you are guaranteed to have your verbosity settings honored cleanly.

=item *

Otherwise, if the variable C<$IPC::Cmd::USE_IPC_OPEN3> is set to true (See the L<"Global Variables"> section), try to execute the command using L<IPC::Open3>. Buffers will be available on all platforms, interactive commands will still execute cleanly, and also your verbosity settings will be adhered to nicely;

=item *

Otherwise, if you have the C<verbose> argument set to true, we fall back to a simple C<system()> call. We cannot capture any buffers, but interactive commands will still work.

=item *

Otherwise we will try and temporarily redirect STDERR and STDOUT, do a C<system()> call with your command and then re-open STDERR and STDOUT. This is the method of last resort and will still allow you to execute your commands cleanly. However, no buffers will be available.

=back
Global Variables

The behaviour of IPC::Cmd can be altered by changing the following global variables:

$IPC::Cmd::VERBOSE

This controls whether IPC::Cmd will print any output from the commands to the screen or not. The default is 0.

$IPC::Cmd::USE_IPC_RUN

This variable controls whether IPC::Cmd will try to use L<IPC::Run> when available and suitable.

$IPC::Cmd::USE_IPC_OPEN3

This variable controls whether IPC::Cmd will try to use L<IPC::Open3> when available and suitable. Defaults to true.

$IPC::Cmd::WARN

This variable controls whether run-time warnings should be issued, like the failure to load an C<IPC::*> module you explicitly requested.

Defaults to true. Turn this off at your own risk.

$IPC::Cmd::INSTANCES

This variable controls whether C<can_run> will return all instances of the binary it finds in the C<PATH> when called in a list context.

Defaults to false, set to true to enable the described behaviour.

$IPC::Cmd::ALLOW_NULL_ARGS

This variable controls whether C<run> will remove any empty/null arguments it finds in command arguments.

Defaults to false, so it will remove null arguments. Set to true to allow them.

Caveats

Whitespace and IPC::Open3 / system()
When using C<IPC::Open3> or C<system>, if you provide a string as the C<command> argument, it is assumed to be appropriately escaped. You can use the C<QUOTE> constant to use as a portable quote character (see above). However, if you provide an array reference, special rules apply:

If your command contains B<special characters> (< > | &), it will be internally stringified before executing the command, to avoid that these special characters are escaped and passed as arguments instead of retaining their special meaning.

However, if the command contained arguments that contained whitespace, stringifying the command would lose the significance of the whitespace. Therefore, C<IPC::Cmd> will quote any arguments containing whitespace in your command if the command is passed as an arrayref and contains special characters.

=item Whitespace and IPC::Run

When using C<IPC::Run>, if you provide a string as the C<command> argument, the string will be split on whitespace to determine the individual elements of your command. Although this will usually just Do What You Mean, it may break if you have files or commands with whitespace in them.

If you do not wish this to happen, you should provide an array reference, where all parts of your command are already separated out. Note however, if there are extra or spurious whitespaces in these parts, the parser or underlying code may not interpret it correctly, and cause an error.

Example:
The following code

    gzip -c df foo.tar.gz | tar -x f -

should either be passed as

    "gzip -c df foo.tar.gz | tar -x f -"

or as

    ['gzip', '-c df', 'foo.tar.gz', '|', 'tar', '-x f', '-']

But take care not to pass it as, for example

    ['gzip -c df foo.tar.gz', '|', 'tar -x f -']

Since this will lead to issues as described above.
=item IO Redirect

Currently it is too complicated to parse your command for IO redirections. For capturing STDOUT or STDERR there is a work around however, since you can just inspect your buffers for the contents.

=back

=head1 See Also

L<IPC::Run>, L<IPC::Open3>

=head1 ACKNOWLEDGEMENTS

Thanks to James Mastros and Martijn van der Streek for their help in getting L<IPC::Open3> to behave nicely.

Thanks to Petya Kohts for the C<run_forked> code.

=head1 BUG REPORTS

Please report bugs or other issues to E<lt>bug-ipc-cmd@rt.cpan.orgE<gt>.

=head1 AUTHOR

Original author: Jos Boumans E<lt>kane@cpan.orgE<gt>.
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1.917 jemalloc 5.2.1

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

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1.919 lang-expression 6.8.3
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1.927 afero v1.1.2

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package main

import (  "bufio"  "bytes"  "flag"  "fmt"  "io"  "log"  "os"  "path/filepath"  "strings"
)
const crUsageString = `xb copyright [options] <path>....
The xb copyright command adds a copyright remark to all go files below path.
-h prints this message and exits
`
func crUsage(w io.Writer) {
fmt.Fprint(w, crUsageString)
}
const copyrightText = `
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`
func goComment(text string) string {
buf := new(bytes.Buffer)
scanner := bufio.NewScanner(strings.NewReader(text))
var err error
for scanner.Scan() {
s := strings.TrimSpace(scanner.Text())
if len(s) == 0 {
continue
}
if _, err = fmt.Fprintln(buf, "//", s); err != nil {
panic(err)
}
}
if err = scanner.Err(); err != nil {
panic(err)
}
if _, err = fmt.Fprintln(buf); err != nil {
panic(err)
}
return buf.String()
}
var goCopyright = goComment(copyrightText)
func addCopyright(path string) (err error) {
log.Printf("adding copyright to %s", path)
src, err := os.Open(path)
if err != nil {
return err

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defer func() {
  cerr := src.Close()
  if cerr != nil && err == nil {
    err = cerr
  }
}

newPath := path + ".new"
dst, err := os.Create(newPath)
if err != nil {
  return err
}

dst, err = os.Create(newPath)
if err != nil {
  return err
}

dst, err = os.Create(newPath)
if err != nil {
  return err
}

def er := dst.Close()
if cerr != nil && err == nil {
  err = cerr
}
()

out := bufio.NewWriter(dst)
fmt.Fprintf(out, goCopyright)
scanner := bufio.NewScanner(src)
line := 0
del := false
for scanner.Scan() {
  line++
txt := scanner.Text()
  if line == 1 && strings.Contains(txt, "Copyright") {
    del = true
    continue
  }
  if del {
    s := strings.TrimSpace(txt)
    if len(s) == 0 {
      del = false
    }
    continue
  }
  fmt.Fprintf(out, txt)
}
if err = scanner.Err(); err != nil {
  return err
}
if err = out.Flush(); err != nil {
  return
}
err = os.Rename(newPath, path)
return
}
func walkCopyrights(path string, info os.FileInfo, err error) error {
    if err != nil {
        return err
    }
    if info.IsDir() {
        return nil
    }
    if !strings.HasSuffix(info.Name(), ".go") {
        return nil
    }
    return addCopyright(path)
}

func copyright() {
    cmdName := os.Args[0]
    log.SetPrefix(fmt.Sprintf("%s: ", cmdName))
    log.SetFlags(0)
    flag.CommandLine = flag.NewFlagSet(cmdName, flag.ExitOnError)
    flag.Usage = func() { crUsage(os.Stderr); os.Exit(1) }
    help := flag.Bool("h", false, "")
    flag.Parse()

    if *help {
        crUsage(os.Stdout)
        os.Exit(0)
    }

    for _, path := range flag.Args() {
        fi, err := os.Stat(path)
        if err != nil {
            log.Print(err)
            continue
        }
        if !fi.IsDir() {
            log.Printf("%s is not a directory", path)
            continue
        }
        if err = filepath.Walk(path, walkCopyrights); err != nil {
            log.Fatalf("%s error %s", path, err)
        }
    }
}

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1.933 byte-buddy 1.9.10
1.933.1 Available under license:

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

Manifest-Version: 1.0
Bundle-Description: Byte Buddy is a Java library for creating Java classes at run time. This artifact is a build of Byte Buddy with all ASM dependencies repackaged into its own name space.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-SymbolicName: net.bytebuddy.byte-buddy
Built-By: rafael
Bnd-LastModified: 1549908028499
Bundle-ManifestVersion: 2
Tool: Bnd-3.5.0.201709291849
Main-Class: net.bytebuddy.build.Plugin$Engine$Default
Export-Package: net.bytebuddy;version="1.9.10",net.bytebuddy.agent.builder;version="1.9.10",net.bytebuddy.asm;version="1.9.10",net.bytebuddy.build;version="1.9.10",net.bytebuddy.description;version="1.9.10",net.bytebuddy.description.annotation;version="1.9.10",net.bytebuddy.description.enumeration;version="1.9.10",net.bytebuddy.description.field;version="1.9.10",net.bytebuddy.description.method;version="1.9.10",net.bytebuddy.description.modifier;version="1.9.10",net.bytebuddy.description.type;version="1.9.10",net.bytebuddy.dynamic;version="1.9.10",net.bytebuddy.dynamic.loading;version="1.9.10",net.bytebuddy.dynamic.scaffold;version="1.9.10",net.bytebuddy.dynamic.scaffold.inline;version="1.9.10",net.bytebuddy.dynamic.scaffold.subclass;version="1.9.10",net.bytebuddy.implementation;version="1.9.10",net.bytebuddy.implementation.attribute;version="1.9.10",net.bytebuddy.implementation.auxiliary;version="1.9.10",net.bytebuddy.implementation.bind;version="1.9.10",net.bytebuddy.implementation.bind.annotation;version="1.9.10",net.bytebuddy.implementation.bytecode;version="1.9.10",net.bytebuddy.implementation.bytecode.assign;version="1.9.10",net.bytebuddy.implementation.bytecode.assign.primitive;version="1.9.10",net.bytebuddy.implementation.bytecode.assign.reference;version="1.9.10",net.bytebuddy.implementation.bytecode.collection;version="1.9.10",net.bytebuddy.implementation.bytecode.constant;version="1.9.10",net.bytebuddy.implementation.bytecode.member;version="1.9.10",net.bytebuddy.matcher;version="1.9.10",net.bytebuddy.pool;version="1.9.10",net.bytebuddy.utility;version="1.9.10",net.bytebuddy.utility.privilege;version="1.9.10",net.bytebuddy.utility.visitor;version="1.9.10",net.bytebuddy.jar.asm;version="1.9.10",net.bytebuddy.jar.asm.signature;version="1.9.10",net.bytebuddy.jar.asm.commons;version="1.9.10"
Bundle-Name: Byte Buddy (without dependencies)
Bundle-Version: 1.9.10
Multi-Release: true
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_201

Found in path(s):
* /opt/ cola/ permits/ 1200619934_1630904807.75/0/ byte- buddy-1-9-10-sources-2- jar/META-INF/ MANIFEST.MF
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* /opt/ cola/ permits/ 1200619934_1630904807.75/0/ byte- buddy-1-9-10-sources-2- jar/net/ bytebuddy/ dynamic/ scaffold/ inline/ RebaseImplementationTarget.java
* /opt/ cola/ permits/ 1200619934_1630904807.75/0/ byte- buddy-1-9-10-sources-2- jar/net/ bytebuddy/ implementation/ bind/ annotation/ SuperMethod.java
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* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/matcher/AccessibilityMatcher.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/dynamic/scaffold/ClassWriterStrategy.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/matcher/IsNamedMatcher.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/dynamic/scaffold/MethodRegistry.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/description/annotation/package-info.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/matcher/SignatureTokenMatcher.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/implementation/auxiliary/PrivilegedMemberLookupAction.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/description/annotation/AnnotationSource.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/matcher/InstanceTypeMatcher.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/implementation/bytecode/Multiplication.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/implementation/bind/annotation/StubValue.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/implementation/bytecode/collection/package-info.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/dynamic/scaffold/inline/MethodRebaseResolver.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/matcher/MethodExceptionTypeMatcher.java
- /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/implementation/bytecode/collection/ArrayFactory.java
- /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/utility/visitor/MetadataAwareClassVisitor.java
- /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/description/modifier/MethodStrictness.java
- /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/utility/visitor/LineNumberPrependingMethodVisitor.java
- /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/description/modifier/FieldManifestation.java
- /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/implementation/attribute/TypeAttributeAppender.java
- /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/implementation/bind/MethodNameEqualityResolver.java
- /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/utility/privilege/package-info.java
- /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/dynamic/scaffold/MethodGraph.java
- /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/description/type/TypeVariableSource.java
- /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/dynamic/scaffold/FieldRegistry.java
- /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/helper/OpenedClassReader.java
- /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/dynamic/scaffold/inline/RebaseDynamicTypeBuilder.java
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-
jar/net/bytebuddy/jar/asm/ByteVector.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-
jar/net/bytebuddy/jar/asm/TypePath.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-
jar/net/bytebuddy/jar/asm/MethodTooLargeException.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-
jar/net/bytebuddy/jar/asm/Constants.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-
jar/net/bytebuddy/jar/asm/AnnotationVisitor.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-
jar/net/bytebuddy/jar/asm/ModuleWriter.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-
jar/net/bytebuddy/jar/asm/Handler.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-
jar/net/bytebuddy/jar/asm/signature/SignatureWriter.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-
jar/net/bytebuddy/jar/asm/FieldWriter.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-
jar/net/bytebuddy/jar/asm/SymbolTable.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-
jar/net/bytebuddy/jar/asm/TypeReference.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-
jar/net/bytebuddy/jar/asm/ModuleVisitor.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-
jar/net/bytebuddy/jar/asm/Opcodes.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-
jar/net/bytebuddy/jar/asm/Attribute.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-
jar/net/bytebuddy/jar/asm/AnnotationWriter.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-
jar/net/bytebuddy/jar/asm/MethodWriter.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-
jar/net/bytebuddy/jar/asm/Edge.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-
jar/net/bytebuddy/jar/asm/ConstantDynamic.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-
jar/net/bytebuddy/jar/asm/CurrentFrame.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-
jar/net/bytebuddy/jar/asm/FieldVisitor.java
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-
jar/net/bytebuddy/jar/asm/package.html
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-
jar/net/bytebuddy/jar/asm/signature/package.html

1.934 mesa 10.6.5 3.20150824.el7

1.934.1 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>
Sent: January 8, 2013 6:49 PM
To: Jorge Jimenez <iryoku@gmail.com>
CC: jorge@iryoku.com
Subject: Re: Question about Mesa MLAA license

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’s MLAA. 0 to disable, 8 for default quality". Is this in compliance with your exception?

Thanks again,

~tom

---

Fedora Project

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:39 PM
To: "jorge@iryoku.com" <jorge@iryoku.com>, Tom Callaway <tcallawa@redhat.com>

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!

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

Some parts of Mesa are copyrighted under the GNU LGPL. See the Mesa/docs/COPYRIGHT file for details.

The following is the standard GNU copyright file.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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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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
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:

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

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

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

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

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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1.938 llvm 3.6.2-2.el7

1.938.1 Available under license :

; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | 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: 
  %L34 = load i8, i8* %0
  %Cmp56 = icmp sgt i8 undef, %L34
  br label %CF246

CF246:
  ; preds = %CF246, %BB
  %S1163 = select i1 %Cmp56, i8 %L34, i8 undef
  br i1 undef, label %CF246, label %CF248

CF248:
  ; preds = %CF248, %CF246
  store i8 %S1163, i8* %0
  br label %CF248
}
; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=avx512vl,avx512bw,avx512dq,prefer-256-bit | FileCheck %s
This file primarily contains tests for specific places in X86ISelLowering.cpp that needed to be made aware of the legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

```assembly
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 (%rsi), %ymm0, %ymm0
    ; CHECK-NEXT:  vpaddd 32(%rsi), %ymm1, %ymm1
    ; CHECK-NEXT:  vmovdqa %ymm1, 32(%rdx)
    ; CHECK-NEXT:  vmovdqa %ymm0, (%rdx)
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %d = load <16 x i32>, <16 x i32>* %a
    %e = load <16 x i32>, <16 x i32>* %b
    %f = add <16 x i32> %d, %e
    store <16 x i32> %f, <16 x i32>* %c
    ret void
}

define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: add512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vmovdqa64 (%rdi), %zmm0
    ; CHECK-NEXT:  vpaddd (%rsi), %zmm0, %zmm0
    ; CHECK-NEXT:  vmovdqa64 %zmm0, (%rdx)
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %d = load <16 x i32>, <16 x i32>* %a
    %e = load <16 x i32>, <16 x i32>* %b
    %f = add <16 x i32> %d, %e
    store <16 x i32> %f, <16 x i32>* %c
    ret void
}

define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: avg_v64i8_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vmovdqa (%rsi), %ymm0
    ; CHECK-NEXT:  vmovdqa 32(%rsi), %ymm1
    ; CHECK-NEXT:  vpavgb (%rdi), %ymm0, %ymm0
    ; CHECK-NEXT:  vpavgb 32(%rdi), %ymm1, %ymm1
    ; CHECK-NEXT:  vmovdqu %ymm1, (%rax)
    ; CHECK-NEXT:  vmovdqu %ymm0, (%rax)
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
```
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:    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, %4
    %7 = lshr <64 x i32> %6, %5
    %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 @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:    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, %4
    %7 = lshr <64 x i32> %6, %5
    %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 @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:    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, %4
    %7 = lshr <64 x i32> %6, %5
    %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_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="512" {  
; CHECK-LABEL: pmaddwd_32_512:  
; CHECK:      # %bb.0:  
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0  
; CHECK-NEXT: vmovdqa64 (%rsi), %zmm0  
; CHECK-NEXT: vpmaddwd (%rsi), %zmm0, %zmm1  
; CHECK-NEXT: vmovdqa64 %zmm1, (%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  
}
; CHECK-LABEL: psusbus_64i8_max_256:
; CHECK:  # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpsubusb (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vpsubusb 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vmovdqa %ymm0, (%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 @psusbus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" { 
; CHECK-LABEL: psusbus_64i8_max_512:
; CHECK:  # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpsubusb (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%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 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:
; CHECK-NEXT: movl %edx, %eax
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
; 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: vpmaddwd %ymm4, %ymm3, %ymm3
; CHECK-NEXT: addq $32, %rcx
; CHECK-NEXT: cmpq %rcx, %rax
; CHECK-NEXT: jne .LBB8_1
; CHECK-NEXT: # %bb.2: # %middle.block
; CHECK-NEXT: vpaddd %ymm0, %ymm1, %ymm1
; CHECK-NEXT: vpaddd %ymm0, %ymm2, %ymm0
; CHECK-NEXT: vpaddd %ymm0, %ymm1, %ymm1
; CHECK-NEXT: vextract128 $1, %ymm0, %xmm1
; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT: vpaddd %ymm1, %ymm0, %ymm0
; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vmovd %xmm0, %eax
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq

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
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%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,
define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: _Z9test_charPcS_i_512:
  ; 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:  .p2align 4, 0x90
  ; CHECK-NEXT:  .LBB9_1: # %vector.body
  ; 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:  .LBB9_2: # %middle.block
  ; CHECK-NEXT:  vpaddd %zmm0, %zmm1, %zmm0
  ; CHECK-NEXT:  ret
}

define i32 @_Z11check_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: _Z11check_charPcS_i_512:
  ; 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:  .p2align 4, 0x90
  ; CHECK-NEXT:  .LBB9_2: # %middle.block
  ; CHECK-NEXT:  vpaddd %zmm0, %zmm1, %zmm0
  ; CHECK-NEXT:  ret
}

define i32 @_Z11check_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: _Z11check_charPcS_i_512:
  ; 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:  .p2align 4, 0x90
  ; CHECK-NEXT:  .LBB9_2: # %middle.block
  ; CHECK-NEXT:  vpaddd %zmm0, %zmm1, %zmm0
  ; CHECK-NEXT:  ret
}

define i32 @_Z11check_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: _Z11check_charPcS_i_512:
  ; 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:  .p2align 4, 0x90
  ; CHECK-NEXT:  .LBB9_2: # %middle.block
  ; CHECK-NEXT:  vpaddd %zmm0, %zmm1, %zmm0
  ; CHECK-NEXT:  ret
}

define i32 @_Z11check_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: _Z11check_charPcS_i_512:
  ; 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:  .p2align 4, 0x90
  ; CHECK-NEXT:  .LBB9_2: # %middle.block
  ; CHECK-NEXT:  vpaddd %zmm0, %zmm1, %zmm0
  ; CHECK-NEXT:  ret
}

define i32 @_Z11check_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: _Z11check_charPcS_i_512:
  ; 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:  .p2align 4, 0x90
  ; CHECK-NEXT:  .LBB9_2: # %middle.block
  ; CHECK-NEXT:  vpaddd %zmm0, %zmm1, %zmm0
  ; CHECK-NEXT:  ret
}

define i32 @_Z11check_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: _Z11check_charPcS_i_512:
  ; 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:  .p2align 4, 0x90
  ; CHECK-NEXT:  .LBB9_2: # %middle.block
  ; CHECK-NEXT:  vpaddd %zmm0, %zmm1, %zmm0
  ; CHECK-NEXT:  ret
}
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
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%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, 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 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, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%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, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%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, 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>
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = 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, 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>
%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), %ymm2
   ; CHECK-NEXT:    vpsadbw b+1024(%rax), %ymm2, %ymm2
   ; CHECK-NEXT:    vpaddd %ymm1, %ymm2, %ymm1
   ; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm0
   ; CHECK-NEXT:    vextracti128 $1, %ymm0, %ymm1
   ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
   ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
   ; CHECK-NEXT:    vpaddd %ymm1, %ymm0, %ymm0
   ; 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>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i32> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, <16 x i32> %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> undef, <16 x i32> undef, <16 x i32> undef, %i32 10, %i32 11, %i32 12, %i32 13, %i32 14, %i32 15, %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> undef, <16 x i32> undef, <16 x i32> undef, %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.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, %i32 2, %i32 3, %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> undef, <16 x i32> undef, %i32 1, %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
}
; CHECK-NEXT:  vpsadbwb +1024(%rax), %xmm1, %zmm0
; CHECK-NEXT:  vpaddd %zmm0, %zmm1, %zmm0
; CHECK-NEXT:  addq $4, %rax
; CHECK-NEXT:  jne .LBB11_1
; CHECK-NEXT:  # %bb.2: # %middle.block
; CHECK-NEXT:  vextracti64x4 $1, %zmm0, %ymm1
; CHECK-NEXT:  vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:  vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:  vpaddd %zmm1, %zmm0, %zmm0
; 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>
  %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 %10, %index
  %index.next = add i64 %index
  %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, %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
%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, 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 void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" { CHECK-LABEL: sbto16f32_256:
  ; CHECK: 
  # %bb.0:
  ; CHECK-NEXT:   vpmovw2m %ymm0, %k0 
  ; CHECK-NEXT:   kshiftrw $8, %k0, %k1 
  ; CHECK-NEXT:   vpmovm2d %k0, %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, zeroinitialzier 
  %1 = sitofp <16 x i1> %mask to <16 x float> 
  store <16 x float> %1, <16 x float>* %res 
  ret void 
}
define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" { CHECK-LABEL: sbto16f32_512:
  ; CHECK: 
  # %bb.0:
  ; CHECK-NEXT:   vpmovw2m %zmm0, %k0 
  ; CHECK-NEXT:   kshiftrw $8, %k0, %k1 
  ; CHECK-NEXT:   vpmovm2d %k0, %zmm0 
  ; CHECK-NEXT:   vcvtdq2ps %zmm0, %zmm0 
  ; CHECK-NEXT:   vmovaps %zmm0, (%rdi) 
  ; CHECK-NEXT:   vmovaps %zmm0, 32(%rdi) 
  ; CHECK-NEXT:   vzeroupper 
  ; CHECK-NEXT:   retq 
  %mask = icmp slt <16 x i16> %a, zeroinitialzier 
  %1 = sitofp <16 x i1> %mask to <16 x float> 
  store <16 x float> %1, <16 x float>* %res 
  ret void 
}
define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res)  "min-legal-vector-width"="256" { 

%mask = icmp slt <16 x i16> %a, zeroinitializer 
%1 = sitofp <16 x i1> %mask to <16 x double> 
store <16 x double> %1, <16 x double>* %res 
ret void 
}

define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res)  "min-legal-vector-width"="512" { 

%mask = icmp slt <16 x i16> %a, zeroinitializer 
%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, zeroinitializer 
%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" {
 ; CHECK-LABEL: ubto16f32_512:
 ; CHECK:      # %bb.0:
 ; CHECK-NEXT: vpmovw2m %ymm0, %k0
 ; CHECK-NEXT: vpmovm2d %k0, %zmm0
 ; CHECK-NEXT: vpsrld $31, %zmm0, %zmm0
 ; CHECK-NEXT: vcvtqd2ps %zmm0, %zmm0
 ; CHECK-NEXT: vpmovaps %zmm0, (%rdi)
 ; CHECK-NEXT: vzeroupper
 ; CHECK-NEXT: retq
 %mask = icmp slt <16 x i16> %a, zeroinitializer
 %l = uitofp <16 x i1> %mask to <16 x float>
 store <16 x float> %l, <16 x float>* %res
 ret void
}

define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
 ; CHECK-LABEL: ubto16f64_256:
 ; CHECK:      # %bb.0:
 ; CHECK-NEXT: vpmovw2m %ymm0, %k0
 ; CHECK-NEXT: kshiftrw $8, %k0, %k1
 ; CHECK-NEXT: vpmovm2d %k1, %ymm0
 ; CHECK-NEXT: vpsrld $31, %ymm0, %ymm0
 ; CHECK-NEXT: vcvtqd2pd %xmm0, %ymm1
 ; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
 ; CHECK-NEXT: vcvtqd2pd %xmm0, %ymm0
 ; CHECK-NEXT: vpmovm2d %k0, %ymm2
 ; CHECK-NEXT: vpsrld $31, %ymm2, %ymm2
 ; CHECK-NEXT: vcvtqd2pd %xmm2, %ymm3
 ; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2
 ; CHECK-NEXT: vcvtqd2pd %xmm2, %ymm2
 ; CHECK-NEXT: vpmovaps %ymm2, 32(%rdi)
 ; CHECK-NEXT: vmovaps %ymm3, (%rdi)
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:   vpsrl $31, %zmm0, %zmm0
; CHECK-NEXT:   vcvtdq2pd %ymm0, %zmm1
; CHECK-NEXT:   vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT:   vcvtdq2pd %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 void @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:   vcvttps2dq (%rdi), %ymm1
; CHECK-NEXT:   vpslld $31, %ymm1, %ymm1
; CHECK-NEXT:   vpmovd2m %ymm1, %k0
; CHECK-NEXT:   vcvttps2dq 32(%rdi), %ymm1
; CHECK-NEXT:   vpslld $31, %ymm1, %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 = 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: vcvttps2dq (%rdi), %zmm1  
; CHECK-NEXT: vpslld $31, %zmm1, %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 = fptoui <16 x float> %a to <16 x i1>  
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitilizer  
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> zeroinitilizer  
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> zeroinitilizer  
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), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT: vpunpckhbw {{.*#*}} ymm4 =
  ymm2[8],ymm0[8],ymm3[8],ymm0[9],ymm2[9],ymm0[10],ymm2[10],ymm0[11],ymm2[11],ymm0[12],ymm2[12],ymm0[13],ymm2[13],ymm0[14],ymm3[14],ymm0[15],ymm3[15],ymm2[14],ymm0[16],ymm3[16],ymm2[15],ymm0[17],ymm3[17],ymm2[16],ymm0[18],ymm3[18],ymm2[17],ymm0[19],ymm3[19],ymm2[18],ymm0[20],ymm3[20],ymm2[19],ymm0[21],ymm3[21],ymm2[20],ymm0[22],ymm3[22],ymm2[21],ymm0[23],ymm3[23],ymm2[22],ymm0[24],ymm3[24],ymm2[23],ymm0[25],ymm3[25],ymm2[24],ymm0[26],ymm3[26],ymm2[25],ymm0[27],ymm3[27],ymm2[26],ymm0[28],ymm3[28],ymm2[27],ymm0[29],ymm3[29],ymm2[28],ymm0[30],ymm3[30],ymm2[30],ymm0[31]
; CHECK-NEXT: vpunpckhbw {{.*#*}} ymm5 =
  ymm0[8,9,9,10,10,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-NEXT: vpmullw %ymm4, %ymm5, %ymm4
; CHECK-NEXT: vpmullw %ymm4, %ymm5, %ymm4
; CHECK-NEXT: vpand %ymm5, %ymm4, %ymm4
; CHECK-NEXT: vpunpckhbw {{.*#*}} ymm2 =
  ymm2[0],ymm0[0],ymm1[0],ymm2[0],ymm3[0],ymm4[0],ymm5[0],ymm6[0],ymm7[0],ymm8[0],ymm9[0],ymm10[0],ymm11[0],ymm12[0],ymm13[0],ymm14[0],ymm15[0],ymm16[0],ymm17[0],ymm18[0],ymm19[0],ymm20[0],ymm21[0],ymm22[0],ymm23[0],ymm24[0],ymm25[0],ymm26[0],ymm27[0],ymm28[0],ymm29[0],ymm30[0],ymm31[0],ymm0[31]
; CHECK-NEXT: vpackuswb %ymm4, %ymm0, %ymm0
; CHECK-NEXT: vpackuswb %ymm4, %ymm0, %ymm0
; CHECK-NEXT: vpunpckhbw {{.*#*}} ymm3 =
  ymm3[1],ymm1[1],ymm4[1],ymm5[1],ymm6[1],ymm7[1],ymm8[1],ymm9[1],ymm10[1],ymm11[1],ymm12[1],ymm13[1],ymm14[1],ymm15[1],ymm16[1],ymm17[1],ymm18[1],ymm19[1],ymm20[1],ymm21[1],ymm22[1],ymm23[1],ymm24[1],ymm25[1],ymm26[1],ymm27[1],ymm28[1],ymm29[1],ymm30[1],ymm31[1],ymm0[31]
; CHECK-NEXT: vpunpckhbw {{.*#*}} ymm1 =
  ymm1[0],ymm0[0],ymm1[0],ymm2[0],ymm3[0],ymm4[0],ymm5[0],ymm6[0],ymm7[0],ymm8[0],ymm9[0],ymm10[0],ymm11[0],ymm12[0],ymm13[0],ymm14[0],ymm15[0],ymm16[0],ymm17[0],ymm18[0],ymm19[0],ymm20[0],ymm21[0],ymm22[0],ymm23[0],ymm24[0],ymm25[0],ymm26[0],ymm27[0],ymm28[0],ymm29[0],ymm30[0],ymm31[0],ymm0[31]
; CHECK-NEXT: vpmullw %ymm2, %ymm4, %ymm2
; CHECK-NEXT: vpmullw %ymm2, %ymm4, %ymm2
; CHECK-NEXT: vpand %ymm5, %ymm2, %ymm2
; CHECK-NEXT: vpand %ymm5, %ymm2, %ymm2
; CHECK-NEXT: vpackuswb %ymm2, %ymm1, %ymm1
; CHECK-NEXT: vpackuswb %ymm2, %ymm1, %ymm1
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 =
        zmm1[8],zmm0[8],zmm1[9],zmm0[9],zmm1[10],zmm0[10],zmm1[11],zmm0[11],zmm1[12],zmm0[12],zmm1[13],zmm0[13],zmm1[14],zmm0[14],zmm1[15],zmm0[15],zmm1[24],zmm0[24],zmm1[25],zmm0[25],zmm1[26],zmm0[26],zmm1[27],zmm0[27],zmm1[28],zmm0[28],zmm1[29],zmm0[29],zmm1[30],zmm0[30],zmm1[31],zmm0[31],zmm1[40],zmm0[40],zmm1[41],zmm0[41],zmm1[42],zmm0[42],zmm1[43],zmm0[43],zmm1[44],zmm0[44],zmm1[45],zmm0[45],zmm1[46],zmm0[46],zmm1[47],zmm0[47],zmm1[56],zmm0[56],zmm1[57],zmm0[57],zmm1[58],zmm0[58],zmm1[59],zmm0[59],zmm1[60],zmm0[60],zmm1[61],zmm0[61],zmm1[62],zmm0[62],zmm1[63],zmm0[63]
    ; CHECK-NEXT: vpunpckhbw {{.*#+}} zmm3 =
        zmm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,42,42,43,43,44,44,45,45,46,46,47,47,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
    ; CHECK-NEXT: vpmullw %zmm2, %zmm3, %zmm2
    ; CHECK-NEXT: vpmullw %zmm2, %zmm3, %zmm2
    ; CHECK-NEXT: vpandq %zmm2, %zmm3
    ; CHECK-NEXT: vmovdqa64 (%rdx)
    ; CHECK-NEXT: vzeroupper
    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
}

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Developed by:

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</table>

; 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
; RUN: opt < %s > -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC256,SKX256
; RUN: opt < %s > -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512

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>
define void @zext256() "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 3 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
  
  ; %A = zext <8 x i16> undef to <8 x i64>
  %B = zext <8 x i32> undef to <8 x i64>
  %C = zext <16 x i8> undef to <16 x i32>
  %D = zext <16 x i16> undef to <16 x i32>
  %E = zext <32 x i8> undef to <32 x i16>
  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 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
  ret void
}

; VEC512-LABEL: 'zext512'
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

%A = zext <8 x i16> undef to <8 x i64>
%B = zext <8 x i32> undef to <8 x i64>
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
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
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>  
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: 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>  
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void  
  ;  
  ; VEC512-LABEL: 'sext512'  
  ; 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 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>  
  ;  
}
; 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 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; 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
}
$OpenBSD: COPYRIGHT,v 1.3 2003/06/02 20:18:36 millert Exp $

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*#@(#)COPYRIGHT8.1 (Berkeley) 3/16/94
*/
; 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: sshll.2d [[[BLOCK0_HI:v[0-9]+]], v0, #0
  ; CHECK-DAG: sshll.2d [[[BLOCK1_HI:v[0-9]+]], v1, #0
  ; CHECK-DAG: sshll.2d [[[BLOCK2_HI:v[0-9]+]], v2, #0
  ; CHECK-DAG: sshll.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]]]

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; 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
%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>
ret <16 x double> %res

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
  ; CHECK-LABEL: test_sitofp_fixed_shortish:
  ; CHECK-DAG: scvtf.2d v0, v0
  ; CHECK-DAG: scvtf.2d v1, v1

  ; CHECK: ret
  %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>
  ret <4 x double> %res
}

; RUN: opt %s -inline -S | FileCheck %s

define internal void @innerSmall() "min-legal-vector-width"="128" {
  ret void
}

define internal void @innerLarge() "min-legal-vector-width"="512" {
  ret void
}

define internal 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
}

; 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" }
; RUN: opt -consthoist -S -o - %s | FileCheck %s
target triple = "i386-unknown-gnu"; 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: %[[M2:const_mat[0-9]?] = add i32 %[[C2]], 31
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] 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: %[[M3:const_mat[0-9]?] = add i32 %[[C1]], 7
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i8*
; 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
ret void
}

; 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
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
}

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 805874720 to i32*), align 4
  %3 = load volatile i32, i32* inttoptr (i32 805874750 to i32*), align 4
  %4 = load volatile i32, i32* inttoptr (i32 805874752 to i32*), align 4
  %5 = load volatile i32, i32* inttoptr (i32 805874774 to i32*), align 4
  ret void
}

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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
}

define fp128 @TestFabs(fp128 %a) {
  %cmp = fcmp ogt fp128 %a, %b
  %f1 = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %f1, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
}
define fp128 @TestCopysign(fp128 %a, fp128 %b) {
    %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
    ret fp128 %res
}

define fp128 @TestFneg(fp128 %a) {
    %mul = fmul fp128 %a, %a
    %res = fsub fp128 0xL00000000000000008000000000000000, %mul
    ret fp128 %res
}

define fp128 @TestFfabs(fp128 %a) {
    %res = call fp128 @llvm.fabs.f128(fp128 %a)
    ret fp128 %res
}; CHECK-LABEL: TestFfabs:
    ; CHECK andps .LCPI1_0(%rip), %xmm0
    ; CHECK-NEXT retq
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
    %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
    ret fp128 %res
}; CHECK-LABEL: TestCopysign:
    ; CHECK andps .LCPI2_1(%rip), %xmm0
    ; CHECK-NEXT orps %xmm1, %xmm0
    ; CHECK-NEXT retq
}

define fp128 @TestFneg(fp128 %a) {
    %mul = fmul fp128 %a, %a
    %res = fsub fp128 0xL00000000000000008000000000000000, %mul
    ret fp128 %res
}; CHECK-LABEL: TestFneg:
    ; CHECK movaps %xmm0, %xmm1
    ; CHECK-NEXT callq __multf3
    ; CHECK-NEXT xorps .LCPI3_0(%rip), %xmm0
    ; CHECK-NEXT popq %rax
    ; CHECK-NEXT retq
}

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* /opt/cola/permits/1136663414_1613849809.98/0/zookeeper-3-6-2-sources-2.jar/org/apache/zookeeper/ZooKeeperTestable.java
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* /opt/cola/permits/1136663414_1613849809.98/0/zookeeper-3-6-2-sources-2-jar/org/apache/zookeeper/cli/VersionCommand.java
* /opt/cola/permits/1136663414_1613849809.98/0/zookeeper-3-6-2-sources-2-jar/org/apache/zookeeper/cli/GetAclCommand.java
* /opt/cola/permits/1136663414_1613849809.98/0/zookeeper-3-6-2-sources-2-jar/org/apache/zookeeper/cli/GetEphemeralsCommand.java
* /opt/cola/permits/1136663414_1613849809.98/0/zookeeper-3-6-2-sources-2-jar/org/apache/zookeeper/cli/SyncCommand.java
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* /opt/cola/permits/1136663414_1613849809.98/0/zookeeper-3-6-2-sources-2-
  jar/org/apache/zookeeper/server/watch/PathParentIterator.java
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  jar/org/apache/zookeeper/util/CircularBlockingQueue.java
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  jar/org/apache/zookeeper/server/TxnLogEntry.java
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  jar/org/apache/zookeeper/server/watch/WatcherModeManager.java
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  jar/org/apache/zookeeper/server/util/MessageTracker.java
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jar/org/springframework/expression/spel/standard/SpelExpression.java
* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1-
jar/org/springframework/expression/spel/support/ReflectivePropertyAccessor.java

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1.955 unzip 6.0 43.el8

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The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

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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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tomb - support for clean goroutine termination in Go.

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1.963 openssl 1.0.1e-51.el7_2.7

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1.964 perl-mro-compat 0.13-4.el8

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NAME
MRO::Compat - mro::* interface compatibility for Perls < 5.9.5

SYNOPSIS
package PPP;      use base qw/Exporter/;
package X;        use base qw/PPP/;
package Y;        use base qw/PPP/;
package Z;        use base qw/PPP/;

package FooClass; use base qw/X Y Z/;

package main;
use MRO::Compat;
my @linear = mro::get_linear_isa('FooClass');
print join(q{, }, @linear);

# Prints: FooClass, X, PPP, Exporter, Y, Z

DESCRIPTION
The "mro" namespace provides several utilities for dealing with method
resolution order and method caching in general in Perl 5.9.5 and higher.

This module provides those interfaces for earlier versions of Perl (back
to 5.6.0 anyways).

It is a harmless no-op to use this module on 5.9.5+. That is to say,
icode which properly uses MRO::Compat will work unmodified on both older
Perls and 5.9.5+.

If you're writing a piece of software that would like to use the parts
of 5.9.5+'s mro:: interfaces that are supported here, and you want
compatibility with older Perls, this is the module for you.

Some parts of this code will work better and/or faster with
Class::C3::XS installed (which is an optional prereq of Class::C3, which
is in turn a prereq of this package), but it's not a requirement.
This module never exports any functions. All calls must be fully qualified with the "mro:::" prefix.

The interface documentation here serves only as a quick reference of what the function basically does, and what differences between MRO::Compat and 5.9.5+ one should look out for. The main docs in 5.9.5's mro are the real interface docs, and contain a lot of other useful information.

Functions
mro::get_linear_isa($classname[, $type])
Returns an arrayref which is the linearized "ISA" of the given class. Uses whichever MRO is currently in effect for that class by default, or the given MRO (either "c3" or "dfs" if specified as $type).

The linearized ISA of a class is a single ordered list of all of the classes that would be visited in the process of resolving a method on the given class, starting with itself. It does not include any duplicate entries.

Note that "UNIVERSAL" (and any members of "UNIVERSAL"’s MRO) are not part of the MRO of a class, even though all classes implicitly inherit methods from "UNIVERSAL" and its parents.

mro::import
This allows the "use mro 'dfs'" and "use mro 'c3'" syntaxes, providing you "use MRO::Compat" first. Please see the "USING C3" section for additional details.

mro::set_mro($classname, $type)
Sets the mro of $classname to one of the types "dfs" or "c3". Please see the "USING C3" section for additional details.

mro::get_mro($classname)
Returns the MRO of the given class (either "c3" or "dfs").

It considers any Class::C3-using class to have C3 MRO even before Class::C3::initialize() is called.

mro::get_isarev($classname)
Returns an arrayref of classes who are subclasses of the given classname. In other words, classes in whose @ISA hierarchy we appear, no matter how indirectly.

This is much slower on pre-5.9.5 Perls with MRO::Compat than it is on 5.9.5+, as it has to search the entire package namespace.
mro::is_universal($classname)
Returns a boolean status indicating whether or not the given classname
is either "UNIVERSAL" itself, or one of "UNIVERSAL"'s parents by @ISA
inheritance.

Any class for which this function returns true is "universal" in the
sense that all classes potentially inherit methods from it.

mro::invalidate_all_method_caches
Increments "PL_sub_generation", which invalidates method caching in all
packages.

Please note that this is rarely necessary, unless you are dealing with a
situation which is known to confuse Perl's method caching.

mro::method_changed_in($classname)
Invalidates the method cache of any classes dependent on the given
class. In MRO::Compat on pre-5.9.5 Perls, this is an alias for
"mro::invalidate_all_method_caches" above, as pre-5.9.5 Perls have no
other way to do this. It will still enforce the requirement that you
pass it a classname, for compatibility.

Please note that this is rarely necessary, unless you are dealing with a
situation which is known to confuse Perl's method caching.

mro::get_pkg_gen($classname)
Returns an integer which is incremented every time a local method of or
the @ISA of the given package changes on Perl 5.9.5+. On earlier Perls
with this MRO::Compat module, it will probably increment a lot more
often than necessary.

USING C3
While this module makes the 5.9.5+ syntaxes "use mro 'c3'" and
"mro::set_mro("Foo", 'c3')" available on older Perls, it does so merely
by passing off the work to Class::C3.

It does not remove the need for you to call "Class::C3::initialize()",
"Class::C3::reinitialize()", and/or "Class::C3::uninitialize()" at the
appropriate times as documented in the Class::C3 docs. These three
functions are always provided by MRO::Compat, either via Class::C3
itself on older Perls, or directly as no-ops on 5.9.5+.

SEE ALSO
Class::C3

mro

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author:
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  Test::More: '0.47'
configure_requires:
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license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: MRO-Compat
no_index:
directory:
  - t
  - xt
requires:
  perl: '5.006'
resources:
  bugtracker: https://rt.cpan.org/Public/Dist/Display.html?Name=MRO-Compat
  homepage: https://metacpan.org/release/MRO-Compat
  license: http://dev.perl.org/licenses/
  repository: git://github.com/moose/MRO-Compat.git
  version: '0.13'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
* /opt/cola/permits/1139282463_1614507698.92/0/perl-MRO-Compat-0.13-4.el8-1.src.rpm-cosi-expand-archive-TXxAdBQC/MRO-Compat-0.13.tar.gz-cosi-expand-archive-YJJGu59i/MRO-Compat-0.13/META.yml
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=head1 USING C3
While this module makes the 5.9.5+ syntaxes
C<use mro 'c3'> and C<mro::set_mro("Foo", 'c3')> available
on older Perls, it does so merely by passing off the work
to L<Class::C3>.

It does not remove the need for you to call
C<Class::C3::initialize>(), C<Class::C3::reinitialize>(), and/or
C<Class::C3::uninitialize>() at the appropriate times
as documented in the L<Class::C3> docs. These three functions
are always provided by L<MRO::Compat>, either via L<Class::C3>
itself on older Perls, or directly as no-ops on 5.9.5+.

=head1 SEE ALSO

L<Class::C3>

L<mro>

=head1 AUTHOR

Brandon L. Black, E<lt>blblack@gmail.comE<gt>

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* /opt/cola/permits/1139282463_1614507698.92/0/perl-MRO-Compatible-0.13-4.el8-1.src.rpm-cosi-expand-archive-
TXxAoBQC|MRO-Compatible-0.13.tar.gz-cosi-expand-archive-YJGu59i|MRO-Compatible-0.13/lib/MRO/Compat.pm
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TXxAoBQC/perl-MRO-Compatible.spec

1.965 absl-py 0.1.1
Open Source Used In APIC-SE-BATMAN 2.1.1d 10551

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

Metadata-Version: 1.1
Name: absl-py
Version: 0.1.1
Summary: Abseil Python Common Libraries
Home-page: https://github.com/abseil/abseil-py
Author: The Abseil Authors
Author-email: UNKNOWN
License: Apache 2.0
Description: UNKNOWN
Platform: UNKNOWN
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
Classifier: Intended Audience :: Developers
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: License :: OSI Approved :: Apache Software License
Classifier: Operating System :: OS Independent

Found in path(s):
* /opt/cola/permits/1170068035_1622537687.99/0/absl-py-0-1-1-tar-gz/absl-py-0.1.1/PKG-INFO
* /opt/cola/permits/1170068035_1622537687.99/0/absl-py-0-1-1-tar-gz/absl-py-0.1.1/absl_py.egg-info/PKG-INFO

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* /opt/cola/permits/1170068035_1622537687.99/0/absl-py-0-1-1-tar-gz/absl-py-0.1.1/absl/flags/_defines.py
* /opt/cola/permits/1170068035_1622537687.99/0/absl-py-0-1-1-tar-gz/absl-py-0.1.1/absl/flags/_helpers.py
* /opt/cola/permits/1170068035_1622537687.99/0/absl-py-0-1-1-tar-gz/absl-py-0.1.1/absl/flags/_validators.py
* /opt/cola/permits/1170068035_1622537687.99/0/absl-py-0-1-1-tar-gz/absl-py-0.1.1/absl/testing/_bazelize_command.py
* /opt/cola/permits/1170068035_1622537687.99/0/absl-py-0-1-1-tar-gz/absl-py-0.1.1/setup.py
1.966 perl-thread-queue 3.13-1.el8

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Found in path(s):
* /opt/cola/permits/1137994296_1614192680.16/0/perl-Thread-Queue-3.13-1.el8-1.src.rpm-cosi-expand-archive-kcqlQwJIN/perl-Thread-Queue.spec
No license file was found, but licenses were detected in source scan.

=head1 NAME
Thread::Queue - Thread-safe queues

=head1 VERSION
This document describes Thread::Queue version 3.13

=head1 SYNOPSIS

use strict;
use warnings;

use threads;
use Thread::Queue;

my $q = Thread::Queue->new();    # A new empty queue

# Worker thread
my $thr = threads->create(
    sub { 
        # Thread will loop until no more work
        while (defined(my $item = $q->dequeue())) { 


# Do work on $item
...
}
}
);

# Send work to the thread
$q->enqueue($item1, ...);
# Signal that there is no more work to be sent
$q->end();
# Join up with the thread when it finishes
$thr->join();

...

# Count of items in the queue
my $left = $q->pending();

# Non-blocking dequeue
if (defined(my $item = $q->dequeue_nb())) {
    # Work on $item
}

# Blocking dequeue with 5-second timeout
if (defined(my $item = $q->dequeue_timed(5))) {
    # Work on $item
}

# Set a size for a queue
$q->limit = 5;

# Get the second item in the queue without dequeuing anything
my $item = $q->peek(1);

# Insert two items into the queue just behind the head
$q->insert(1, $item1, $item2);

# Extract the last two items on the queue
my ($item1, $item2) = $q->extract(-2, 2);

=head1 DESCRIPTION

This module provides thread-safe FIFO queues that can be accessed safely by
any number of threads.

Any data types supported by L<threads::shared> can be passed via queues:

'=over
=item Ordinary scalars

=item Array refs

=item Hash refs

=item Scalar refs

=item Objects based on the above

Ordinary scalars are added to queues as they are.

If not already thread-shared, the other complex data types will be cloned (recursively, if needed, and including any C<bless>ings and read-only settings) into thread-shared structures before being placed onto a queue.

For example, the following would cause L<Thread::Queue> to create a empty, shared array reference via C<&shared([])>, copy the elements 'foo', 'bar' and 'baz' from C<&@ary> into it, and then place that shared reference onto the queue:

```perl
my @ary = qw/foo bar baz/;
$q->enqueue(&@ary);
```

However, for the following, the items are already shared, so their references are added directly to the queue, and no cloning takes place:

```perl
my @ary :shared = qw/foo bar baz/;
$q->enqueue(&@ary);
```

```perl
my $obj = &shared({});
$$obj{foo} = 'bar';
$$obj{qux} = 99;
bless($obj, 'My::Class');
$q->enqueue($obj);
```

See L</"LIMITATIONS"> for caveats related to passing objects via queues.

=head1 QUEUE CREATION

=over

=item ->new()

Creates a new empty queue.
=item ->new(LIST)

Creates a new queue pre-populated with the provided list of items.

=back

=head1 BASIC METHODS

The following methods deal with queues on a FIFO basis.

=over

=item ->enqueue(LIST)

Adds a list of items onto the end of the queue.

=item ->dequeue()

=item ->dequeue(COUNT)

Removes the requested number of items (default is 1) from the head of the queue, and returns them. If the queue contains fewer than the requested number of items, then the thread will be blocked until the requisite number of items are available (i.e., until other threads C<enqueue> more items).

=item ->dequeue_nb()

=item ->dequeue_nb(COUNT)

Removes the requested number of items (default is 1) from the head of the queue, and returns them. If the queue contains fewer than the requested number of items, then it immediately (i.e., non-blocking) returns whatever items there are on the queue. If the queue is empty, then C<undef> is returned.

=item ->dequeue_timed(TIMEOUT)

=item ->dequeue_timed(TIMEOUT, COUNT)

Removes the requested number of items (default is 1) from the head of the queue, and returns them. If the queue contains fewer than the requested number of items, then the thread will be blocked until the requisite number of items are available, or until the timeout is reached. If the timeout is reached, it returns whatever items there are on the queue, or C<undef> if the queue is empty.

The timeout may be a number of seconds relative to the current time (e.g., 5
seconds from when the call is made), or may be an absolute timeout in I<epoch> seconds the same as would be used with L<cond_timedwait()> threads::shared("cond_timedwait VARIABLE, ABS_TIMEOUT"). Fractional seconds (e.g., 2.5 seconds) are also supported (to the extent of the underlying implementation).

If C<TIMEOUT> is missing, C<undef>, or less than or equal to 0, then this call behaves the same as C<dequeue_nb>.

=item -> pending()

Returns the number of items still in the queue. Returns C<undef> if the queue has been ended (see below), and there are no more items in the queue.

=item -> limit

Sets the size of the queue. If set, calls to C<enqueue()> will block until the number of pending items in the queue drops below the C<limit>. The C<limit> does not prevent enqueuing items beyond that count:

my $q = Thread::Queue->new(1, 2);
$q->limit = 4;
$q->enqueue(3, 4, 5); # Does not block
$q->enqueue(6); # Blocks until at least 2 items are # dequeued
my $size = $q->limit; # Returns the current limit (may return # 'undef')
$q->limit = 0; # Queue size is now unlimited

Calling any of the dequeue methods with C<COUNT> greater than a queue's C<limit> will generate an error.

=item -> end()

Declares that no more items will be added to the queue.

All threads blocking on C<dequeue()> calls will be unblocked with any remaining items in the queue and/or C<undef> being returned. Any subsequent calls to C<dequeue()> will behave like C<dequeue_nb()>.

Once ended, no more items may be placed in the queue.

=back

=head1 ADVANCED METHODS

The following methods can be used to manipulate items anywhere in a queue.
To prevent the contents of a queue from being modified by another thread while it is being examined and/or changed, `lock()` the queue inside a local block:

```perl
{
    lock($q);  # Keep other threads from changing the queue's contents
    my $item = $q->peek();
    if ($item ...) {
        ...
    }
    # Queue is now unlocked
}
```

=item ->peek()
=item ->peek(INDEX)

Returns an item from the queue without dequeuing anything. Defaults to the head of queue (at index position 0) if no index is specified. Negative index values are supported as with `arrays` (i.e., -1 is the end of the queue, -2 is next to last, and so on).

If no items exists at the specified index (i.e., the queue is empty, or the index is beyond the number of items on the queue), then `undef` is returned.

Remember, the returned item is not removed from the queue, so manipulating a `peek`ed at reference affects the item on the queue.

=item ->insert(INDEX, LIST)

Adds the list of items to the queue at the specified index position (0 is the head of the list). Any existing items at and beyond that position are pushed back past the newly added items:

```perl
$q->enqueue(1, 2, 3, 4);
$q->insert(1, qw/foo bar/);
# Queue now contains:  1, foo, bar, 2, 3, 4
```

Specifying an index position greater than the number of items in the queue just adds the list to the end.

Negative index positions are supported:

```perl
$q->enqueue(1, 2, 3, 4);
$q->insert(-2, qw/foo bar/);
# Queue now contains:  1, 2, foo, bar, 3, 4
```
Specifying a negative index position greater than the number of items in the queue adds the list to the head of the queue.

=item ->extract()

=item ->extract(INDEX)

=item ->extract(INDEX, COUNT)

Removes and returns the specified number of items (defaults to 1) from the specified index position in the queue (0 is the head of the queue). When called with no arguments, C<extract> operates the same as C<dequeue_nb>.

This method is non-blocking, and will return only as many items as are available to fulfill the request:

$q->enqueue(1, 2, 3, 4);
my $item = $q->extract(2)     # Returns 3
# Queue now contains: 1, 2, 4
my @items = $q->extract(1, 3) # Returns (2, 4)
# Queue now contains: 1

Specifying an index position greater than the number of items in the queue results in C<undef> or an empty list being returned.

$q->enqueue('foo');
my $nada = $q->extract(3)      # Returns undef
my @nada = $q->extract(1, 3)   # Returns ()

Negative index positions are supported. Specifying a negative index position greater than the number of items in the queue may return items from the head of the queue (similar to C<dequeue_nb>) if the count overlaps the head of the queue from the specified position (i.e. if queue size + index + count is greater than zero):

$q->enqueue(qw/foo bar baz/);
my @nada = $q->extract(-6, 2); # Returns () - (3+(-6)+2) <= 0
my @some = $q->extract(-6, 4); # Returns (foo) - (3+(-6)+4) > 0
# Queue now contains: bar, baz
my @rest = $q->extract(-3, 4); # Returns (bar, baz) -
# (2+(-3)+4) > 0

=back

=head1 NOTES

Queues created by L<Thread::Queue> can be used in both threaded and
non-threaded applications.

=head1 LIMITATIONS

Passing objects on queues may not work if the objects' classes do not support sharing. See L<threads::shared/"BUGS AND LIMITATIONS"> for more.

Passing array/hash refs that contain objects may not work for Perl prior to 5.10.0.

=head1 SEE ALSO

Thread::Queue on MetaCPAN:
L<https://metacpan.org/release/Thread-Queue>

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

L<threads>, L<threads::shared>

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

=head1 MAINTAINER

Jerry D. Hedden, S<E<lt>jdhedden AT cpan orgE<gt>>

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---
abstract: 'Thread-safe queues'
author:
  - '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: Thread-Queue
no_index:
directory:
    - t
    - inc
requires:
    Scalar::Util: '1.1'
    Test::More: '0.5'
    Thread::Semaphore: '0'
    threads::shared: '1.21'
version: '3.13'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

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d) If a facility in the modified Library refers to a function or a
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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 be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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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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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,
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will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
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c) Accompany the work with a written offer, valid for at least
three years, to give the same user the materials specified in
Subsection 6a, above, for a charge no more than the cost of
performing this distribution.

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

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

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

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

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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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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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Manifest-Version: 1.0
Bnd-LastModified: 1595302282882
Build-Jdk: 1.8.0_162
Built-By: tatu
Bundle-Description: Support for reading and writing CSV-encoded data via Jackson abstractions.
Bundle-DocURL: https://github.com/FasterXML/jackson-dataformats-text
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Bundle-ManifestVersion: 2
Bundle-Name: Jackson-dataformat-Csv
Bundle-SymbolicName: com.fasterxml.jackson.dataformat.jackson-dataformat-csv
Bundle-Vendor: FasterXML
Bundle-Version: 2.10.5
Created-By: Apache Maven Bundle Plugin
Implementation-Build-Date: 2020-07-21 03:31:04+0000
Implementation-Title: Jackson-dataformat-CSV
Implementation-Vendor: FasterXML
Implementation-Vendor-Id: com.fasterxml.jackson.dataformat
Implementation-Version: 2.10.5
Import-Package: com.fasterxml.jackson.core;version="[2.10,3)",com.fasterxml.jackson.core.base;version="[2.10,3)",com.fasterxml.jackson.core.format;version="[2.10,3)",com.fasterxml.jackson.core.io;version="[2.10,3)",com.fasterxml.jackson.core.json;version="[2.10,3)",com.fasterxml.jackson.core.type;version="[2.10,3)",com.fasterxml.jackson.core.util;version="[2.10,3)",com.fasterxml.jackson.databind;version="[2.10,3)",com.fasterxml.jackson.databind.cfg;version="[2.10,3)",com.fasterxml.jackson.databind.introspect;version="[2.10,3)",com.fasterxml.jackson.databind.databind.cfg;version="[2.10,3)",com.fasterxml.jackson.databind.util;version="[2.10,3)",com.fasterxml.jackson.dataformat.csv;version="[2.10,3)",com.fasterxml.jackson.dataformat.csv.impl;version="[2.10,3)"
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1.1002 gogoprotobuf v1.3.2

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1.1003 zookeeper-recipes-queue 3.6.2

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

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Go support for Protocol Buffers - Google's data interchange format
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# Jackson JSON processor

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

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Other developers who have contributed code are:

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# Jackson JSON processor

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

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<meta http-equiv="X-UA-Compatible" content="IE=edge">
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<span class="sr-only">Toggle navigation</span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
</button>
<a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
</div>
<div class="collapse navbar-collapse" id="mainnav-collapse">

</div>
</div>
</nav>
</header>

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```
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   *
   *    "Hand any two wizards a piece of rope and they would instinctively pull in
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   *   --Sourcery
   *
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ppport.h -- Perl/Pollution/Portability Version 3.19

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

Do NOT edit this file directly! -- Edit PPPort.pm.PL and the
includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

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

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.19

=head1 SYNOPSIS

perl ppport.h [options] [source files]

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

--help show short help

--version show version

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

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

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

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

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

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl
installations back to 5.003, and has been tested up to 5.10.0.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=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=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=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=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.

=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:

```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>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>
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</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_2pv_flags()</td>
<td>NEED_sv_2pv_flags</td>
<td>NEED_sv_2pv_flags_GLOBAL</td>
</tr>
</tbody>
</table>
sv_2pvbyte()      NEED_sv_2pvbyte      NEED_sv_2pvbyte_GLOBAL
sv_catpvf_mg()    NEED_sv_catpvf_mg    NEED_sv_catpvf_mg_GLOBAL
sv_catpvf_mg_nocontext() NEED_sv_catpvf_mg_nocontext NEED_sv_catpvf_mg_nocontext_GLOBAL
sv_pvn_force_flags() NEED_sv_pvn_force_flags   NEED_sv_pvn_force_flags_GLOBAL
sv_setpvf_mg()    NEED_sv_setpvf_mg    NEED_sv_setpvf_mg_GLOBAL
sv_setpvf_mg_nocontext() NEED_sv_setpvf_mg_nocontext NEED_sv_setpvf_mg_nocontext_GLOBAL
vload_module()    NEED_vload_module    NEED_vload_module_GLOBAL
vnewSVpvf()       NEED_vnewSVpvf       NEED_vnewSVpvf_GLOBAL
warner()          NEED_warner          NEED_warner_GLOBAL

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 `diff` program or options, using the `--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 `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 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.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2009, 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;

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 $rcce = quotemeta $ccs;
my $rccs = 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+)\|(\[^|\]*)\|(\[^|\]*)\|(\w*)$/
    ? ( $1 => 
        ($2                  ? ( base     => $2 ) : ()),
        ($3                  ? ( todo     => $3 ) : ()),
        (index($4, 'v') >= 0 ? ( varargs => 1  ) : ()),
        (index($4, 'p') >= 0 ? ( provided => 1  ) : ()),
        (index($4, 'n') >= 0 ? ( nothxarg => 1  ) : ())
    )
    : die "invalid spec: $_" } qw( 
AvFILLp|5.004050||p
AvFILL||
CLASS||n
CPERLscope|5.005000||p
CX_CURPAD_SAVE||
CX_CURPAD_SV||
CopFILEAV|5.006000||p
CopFILEGV_set|5.006000||p
CopFILEGV|5.006000||p
CopFILESV|5.006000||p
CopFILE_set|5.006000||p
CopFILE|5.006000||p
CopSTASHPV_set|5.006000||p
CopSTASHPV|5.006000||p
CopSTASH_eq|5.006000||p
CopSTASH_set|5.006000||p
CopSTASH|5.006000||p
CopyD|5.009002||p
Copy||
CvPADLIST||
CvSTASH||
CvWEAKOUTSIDE||
DEFSV_set|5.011000||p
DEFSV|5.004050||p
END_EXTERN_C|5.005000||p
ENTER||
ERRSV|5.004050||p
EXTEND||
EXTERN_C|5.005000||p
F0convert||n
FREETMPS||
GIMME_V|5.004000||n
GIMME||n
GROK_NUMERIC_RADIX|5.007002||p
)
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|5.011000||p
PERL_MAGIC_isaelem|5.007002||p
PERL_MAGIC_isa|5.007002||p
PERL_MAGIC_mutex|5.011000||p
PERL_MAGIC_nkeys|5.007002||p
PERL_MAGIC_overload_elem|5.007002||p
PERL_MAGIC_overload_table|5.007002||p
PERL_MAGIC_overload|5.007002||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_tieelem|5.007002||p
PERL_MAGIC_tiedscalar|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_QUAD_MAX|5.004000||p
PERL_QUAD_MIN|5.004000||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|5.004000||p
PERL_SHORT_MIN|5.004000||p
PERL_SIGNALS_UNSAFE_FLAG|5.008001||p
PERL_SUBVERSION|5.006000||p
PERL_SYS_INIT3|5.006000|
PERL_SYS_INIT||
PERL_SYS_TERM|5.011000|
PERL_UCHAR_MAX|5.004000||p
PERL_UCHAR_MIN|5.004000||p
PERL_UINT_MAX|5.004000||p
PERL_UINT_MIN|5.004000||p
PERL_UQUAD_MAX|5.004000||p
PERL_UQUAD_MIN|5.004000||p
PERL_UNUSED_ARG|5.009003||p
PERL_UNUSED_CONTEXT|5.009004||p
PERL_UNUSEDDECL|5.007002||p
PERL_UNUSED_VAR|5.007002||p
PERL_UQUAD_MAX|5.004000||p
PERL_UQUAD_MIN|5.004000||p
PERL_USE_GCC_BRACE_GROUPS|5.009004||p
PERL_USHORT_MAX|5.004000||p
PERL_USHORT_MIN|5.004000||p
PERL_VERSION|5.006000||p
PL_DBsignal|5.005000||p
PL_DBsingle||pn
PL_DBsub||pn
PL_DBtrace||pn
PL_Sv|5.005000||p
PL_bufend|5.011000||p
PL_bufptr|5.011000||p
PL_compiling|5.004050||p
PL_copline|5.011000||p
PL_curcop|5.004050||p
PL_curstash|5.004050||p
PL_debstash|5.004050||p
PL_diehook|5.004050||p
PL_dirty|5.004050||p
PL_dowarn||pn
PL_errgv|5.004050||p
PL_error_count|5.011000||p
PL_expect|5.011000||p
PL_hexdigit|5.005000||p
PLhints|5.005000||p
PLin_mystash|5.011000||p
PLin_my|5.011000||p
PL_last_in_gv||n
PL_laststatval|5.005000||p
PL_lex_state|5.011000||p
PL_lex_stuff|5.011000||p
PL_linestr|5.011000||p
PL_modglobal|5.005000||n
PL_na|5.004050||pn
PL_no_modify|5.006000||p
PL_ofsgv||n
PL_parser|5.009005||p
PL_perl_destruct_level|5.004050||p
PL_perldb|5.004050||p
PL_ppaddr|5.006000||p
PL_rsfp_filters|5.004050||p
PL_rsfp|5.004050||p
PL_rs||n
PL_signals|5.008001||p
PL_stack_base|5.004050||p
PL_stack_sp|5.004050||p
PL_stdcache|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|5.011000||p
POP_MULTICALL|5.011000|
POPi||n
POPl||n
POPn||n
POPbytex|5.007001||n
POPPx|5.005030||n
POPi||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|5.011000|
PUSHi|
PUSHmortal|5.009002||p
PUSHn||
PUSHp||
PUSHs||
PUSHu|5.004000||p
PUTBACK||
PerlIO_clearerr|5.007003|
PerlIO_close|5.007003|
PerlIO_context_layers|5.009004|
PerlIO_eof|5.007003|
PerlIO_error|5.007003|
PerlIO_fileno|5.007003|
PerlIO_fill|5.007003|
PerlIO_flush|5.007003|
PerlIO_get_base|5.007003|
PerlIO_get_bufsiz|5.007003|
PerlIO_get_cnt|5.007003|
PerlIO_get_ptr|5.007003|
PerlIO_read|5.007003|
PerlIO_seek|5.007003|
PerlIO_set_cnt|5.007003|
PerlIO_set_pitrn|5.007003|
PerlIO_setlinebuf|5.007003|
PerlIO_stderr|5.007003|
PerlIO_stdin|5.007003|
PerlIO_stdout|5.007003|
PerlIO_tell|5.007003|
PerlIO_unread|5.007003|
PerlIO_write|5.007003|
Perl_signbit|5.009005|n
PoisonFree|5.009004|p
PoisonNew|5.009004|p
PoisonWith|5.009004|p
Poison|5.008000|p
RETV|||n
Renewc||
Renew||
SAVECLEARSV||
SAVECOMPPAD||
SAVEPADSV||
SAVETMPS||
SAVE.DEFSV|5.004050|p
SPAGAIN||
SP||
START_EXTERN_C|5.005000|p
START_MY_CXT|5.007003|p
STMT_END|||p
STMT_START|||p
SvLEN_set
SvLEN
SvLOCK[5.007003]
SvMAGIC_set[5.009003]
SvNIOK_off
SvNIOKp
SvNIOK
SvNOK_off
SvNOK_only
SvNOK_on
SvNOKp
SvNOK
SvNVX
SvNV_set
SvNVx
SvNV
SvOK
SvOOK_offset[5.011000]
SvOOK
SvPOK_off
SvPOK_only_UTF8[5.006000]
SvPOK_only
SvPOK_on
SvPOKp
SvPOK
SvPVX_const[5.009003]
SvPVXmutable[5.009003]
SvPVX
SvPV_const[5.009003]
SvPVflags_const_nolen[5.009003]
SvPVflags_const[5.009003]
SvPVflags_mutable[5.009003]
SvPVflags[5.007002]
SvPVforce_flags_mutable[5.009003]
SvPVforce_flags_nolen[5.009003]
SvPVforce_flags[5.007002]
SvPVforce_nolen[5.009003]
SvPVforce_nomg_nolen[5.009003]
SvPVforce_nomg[5.007002]
SvPVforce
SvPVmutable[5.009003]
SvPVnolen_const[5.009003]
SvPVnolen[5.006000]
SvPVnomg_const_nolen[5.009003]
SvPVnomg_const[5.009003]
SvPVnomg[5.007002]
SvPVrenew[5.009003]
SvPV_set
SvPVbyte_force[5.009002]
SvPVbyte_nolen[5.006000]
SvPVbyte_force[5.006000]
SvPVbyte[5.006000]
SvPVbyte[5.006000]|p
SvPVutf8_force[5.006000]
SvPVutf8_nolen[5.006000]
SvPVutf8x_force[5.006000]
SvPVutf8x[5.006000]
SvPVutf8[5.006000]
SvPVx[]]
SvPV[]
SvREFCNT_dec[]
SvREFCNT_inc_NN[5.009004]|p
SvREFCNT_inc_simple_NN[5.009004]|p
SvREFCNT_inc_simple_void_NN[5.009004]|p
SvREFCNT_inc_simple_void[5.009004]|p
SvREFCNT_inc_simple[5.009004]|p
SvREFCNT_inc_void_NN[5.009004]|p
SvREFCNT_inc_void[5.009004]|p
SvREFCNT_inc[]|p
SvREFCNT[]
SvROK_off[]
SvROK_on[]
SvROK[]]
SvRV_set[5.009003]|p
SvRV[]
SvRXOK[5.009005]
SvRX[5.009005]
SvSETMAGIC[]]
SvSHARE[5.007003]
SvSTASH_set[5.009003]|p
SvSTASH[]
SvSetMagicSV_nosteal[5.004000]
SvSetMagicSV[5.004000]
SvSetSV_nosteal[5.004000]
SvSetSV[]
SvTAINTED_off[5.004000]
SvTAINTED_on[5.004000]
SvTAINTED[5.004000]
SvTAINT[]]
SvTRUE[]
SvTYPE[]
SvUNLOCK[5.007003]
SvUOK[5.007003][5.006000]|p
SvUPGRADE[]]
SvUTF8_off|5.006000|
SvUTF8_on|5.006000|
SvUTF8|5.006000|
SvUVx|5.004000||p
SvUVX|5.004000||p
SvUV_nomg|5.009001||p
SvUV_set|5.009003||p
SvUVx|5.004000||p
SvUV|5.004000||p
SvVOK|5.008001|
SvVSTRING_mg|5.009004||p
THIS||n
UNDERBAR|5.009002||p
UTF8_MAXBYTES|5.009002||p
UVSIZE|5.006000||p
UVTYPE|5.006000||p
UVx|5.007001||p
UVof|5.006000||p
UVuf|5.006000||p
WARN_ALL|5.006000||p
WARN_AMBIGUOUS|5.006000||p
WARN_ASSERTIONS|5.011000||p
WARN_BAREWORD|5.006000||p
WARN_CLOSED|5.006000||p
WARN_CLOSURE|5.006000||p
WARN_DEBUGGING|5.006000||p
WARN_DEPRECATED|5.006000||p
WARN_DIGIT|5.006000||p
WARN_EXEC|5.006000||p
WARN_EXITING|5.006000||p
WARN_GLOB|5.006000||p
WARN_INPLACE|5.006000||p
WARN_INTERNAL|5.006000||p
WARN_IO|5.006000||p
WARN_LAYER|5.008000||p
WARN_MALLOC|5.006000||p
WARN_MISC|5.006000||p
WARN_NEWLINE|5.006000||p
WARN_NUMERIC|5.006000||p
WARN_ONCE|5.006000||p
WARN_OVERFLOW|5.006000||p
WARN_PACK|5.006000||p
WARN_PARENTHESIS|5.006000||p
WARN_PIPE|5.006000||p
WARN_PORTABLE|5.006000||p
WARN_PRECEDENCE|5.006000||p
WARN_PRINTF|5.006000||p
WARN_PROTOTYPE|5.006000||p
WARN_QW|5.006000||p
WARN_RECURSION|5.006000||p
WARN_REDEFINE|5.006000||p
WARN_REGEXP|5.006000||p
WARN_RESERVED|5.006000||p
WARN_SEMICOLON|5.006000||p
WARN_SEVERE|5.006000||p
WARN_SIGNAL|5.006000||p
WARN_SUBSTR|5.006000||p
WARN_SYNTAX|5.006000||p
WARN_TAINT|5.006000||p
WARN_THREADS|5.008000||p
WARN_UNINITIALIZED|5.006000||p
WARN_UNOPENED|5.006000||p
WARN_UNPACK|5.006000||p
WARN_UNTIE|5.006000||p
WARN_UTF8|5.006000||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||
XPUSHp||
XPUSHs||
XPUSHu|5.004000||p
XSPROTO|5.010000||p
XSRETURN_EMPTY||
XSRETURN_IV||
XSRETURN_NO||
XSRETURN_NV||
XSRETURN_PV||
XSRETURN_UNDEF||
XSRETURN_UV|5.008001||p
XSRETURN_YES||
XS_VERSION_BOOTCHECK||
XS_VERSION||
XSprePUSH|5.006000||p
XS|||  
ZeroD|5.0090002||p
Zero|||  
_aMY_CXT|5.007003||p
_pMY_CXT|5.007003||p
aMY_CXT|5.007003||p
aMY_CXT|5.007003||p
aTHXR|5.0110000||p
aTHXR|5.0110000||p
aTHX|5.0060000||p
aTHX|5.0060000||p
add_data||n
addmadانيا
allocmyانيا
amagic_callانيا
amagic_cmp_localeانيا
amagic_cmpانيا
amagic_incmpانيا
amagic_ncmpانيا
any_dupانيا
aoانيا
append_elemانيا
append_listانيا
append_madpropsانيا
apply_attrs_myانيا
apply_attrs_string|5.006001|
apply_attrsانيا
applyانيا
atfork_lock|5.007003|n
atfork_unlock|5.007003|n
av_arylen_p|5.009003|
av_clearانيا
av_create_and_push|5.009005|
av_create_and_unshift_one|5.009005|
av_delete|5.006000|
av_exists|5.006000|
av_extendانيا
av_fetchانيا
av_fihi
av_iter_p|5.011000|
av_lenانيا
av_makeانيا
av_popانيا
av_pushانيا
av_reifyانيا
av_shiftانيا
av_storeانيا
dirp_dup
div128
djSP
do_aexec5
do_aexec
do_aspawn
do_binmode[5.004050]
do_chomp
do_chop
do_close
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_kv

do_magic_dump[5.006000]
do_msgrcv

do_msgsnd

do_oddball

do_op_dump[5.006000]
do_op_xmldump

do_open9[5.006000]
do_opena[5.007001]
do_open[5.004000]
do_pmop_dump[5.006000]
do_pmop_xmldump

do_print


do_readline

do_seek

do_semop

do_shmio

do_smartmatch

do_spawn_nowait

do_spawn

do_sprintf

do_sv_dump[5.006000]
do_sysseek

do_tell

do_trans_complex_utf8

do_trans_complex

do_trans_count_utf8
do_trans_count

do_trans_simple_utf8

do_trans_simple

do_trans

do_vecget

do_vecset

do_vop

docatch

doeval

dofile

dofindlabel

doform

doing_taint

dooneliner

dooopen_pm

doparseform

dopoptoeval

dopoptogiven

dopoptolabel

dopoptoloop

dopoptosub_at

dopoptowhen

doref

dounwind

dowantarray

dump_all

dump_eval

dump_exec_pos

dump_fds

dump_form

dump_indent

dump_mstats

dump_packsubs

dump_sub

dump_sv_child

dump_trie_interim_list

dump_trie_interim_table

dump_trie

dump_vindent

dumpuntil

dup_attrlist

duplicate

evaluate_cop_io

eval_pv

eval_sv

eval_m

execute

exec_failed

expect_number

fbm_compile

fbm_instr
get_op_names[5.005000]
get_opargs[ ]
get_ppaddr[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[ ]
glob_assign_ref[ ]
gp_dup[ ]
gp_free[ ]
gp_ref[ ]
grok_bin[5.007003][p]
grok_hex[5.007003][p]
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 autoload4[5.004000]
gv_check[ ]
gv_const_sv[5.009003]
gv_dump[5.006000]
gv_efullname3[5.004000]
gv_efullname4[5.006001]
gv_efullname[ ]
gv_ename[ ]
gv_fetchfile_flags[5.009005]
gv_fetchfile[ ]
gv_fetchmeth_autoload[5.007003]
gv_fetchmethod_autoload[5.004000]
gv_fetchmethod_flags[5.011000]
gv_fetchmethod[ ]
gv_fetchmeth[ ]
gv_fetchpvn_flags[5.009002][p]
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Open Source Used In APIC-SE-BATMAN 2.1.1d 11399
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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_setpvpf_mg_nocontext\|\|pvn
sv_setpvpf_mg\|5.006000\|5.004000\|pv
sv_setpvpf_nocontext\|\|vn
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sv_setpvpiv_mg\|5.008001\|
sv_setpvpiv\|5.008001\|
sv_setpvn_mg\|5.004050\|p
sv_setpvn\|\|
sv_setpvs\|5.009004\|p
sv_setpvp\|\|
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sv_setref_pv\|\|
sv_setref_uv\|5.007001\|
sv_setsv_cow\|\|
sv_setsv_flags\|5.007002\|
sv_setsv_mg\|5.004050\|p
sv_setsv_nomg\|5.007002\|p
sv_setsv\|\|
sv_setuv_mg\|5.004050\|p
sv_setuv\|5.004000\|p
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sv_utf8_downgrade
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sv_utf8_upgrade_flags_grow
sv_utf8_upgrade_flags
sv_utf8_upgrade_nomg
sv_utf8_upgrade
sv_uv
sv_vcatpvf_mg
sv_vcatpvfn
sv_vsetpvf_mg
sv_vsetpvfn
sv_xmlpeek
svtype
swallow_bom
swap_match_buff
swash_fetch
swash_get
swash_init
sys_init3
sys_init
sys_intern_clear
sys_intern_dup
sys_intern_init
sys_term
taint_env
taint_proper
tmps_grow
toLOWER
toUPPER
to_byte_substr
to_uni_fold
to_uni_lower_lc
to_uni_lower

to_uni_title_lc
to_uni_title

to_uni_upper_lc
to_uni_upper

to_utf8_case
to_utf8_fold
to_utf8_lower
to_utf8_substr
to_utf8_title
to_utf8_upper
token_free

Open Source Used In APIC-SE-BATMAN 2.1.1d 11402
if (exists $opt{'list-unsupported'}) {
  my $f;
  for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $API{$f}{todo};
    print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
  }
  exit 0;
}

# Scan for possible replacement candidates

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

sub find_api
{
  my $code = shift;

$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($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] .= $_;
}

Open Source Used In APIC-SE-BATMAN 2.1.1d 11405


```perl
function = [S1, ""] if m{^DPPP \(my\((\w+)\));

$replace  = S1 if m{^[^s*$rcce\s+Replace\:\s+(\d+)+\s+\$rcce\s*$];
$replace{S2} = S1 if $replace and m{^[^s*$#s*\(\w+\)+\s+\$rcce\s*$];
$replace{S2} = S1 if m{^[^s*$rcce\s+Replace \(\w+\) with \(\w+\)+\s+\$rcce\s*$];
$need{S1} = 1 if m{^\#if\:\s+defined\(\_\_GLOBAL\)\?\;\s+\$rcce\s*$];

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

if (exists $opt{'api-info'}) {
  my $S;
  my $Scount = 0;
  my $Smatch = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "^\Q$opt{'api-info'}\E$";
  for $Sf (sort { lc $a cmp lc $b } keys %API) {
    next unless $Sf =~ /$Smatch/;
    print "\n=== $Sf ===\n\n";
    my $info = 0;
    if ($API{$Sf}{base} || $API{$Sf}{todo}) {
      my $base = format_version($API{$Sf}{base} || $API{$Sf}{todo});
      print "Supported at least starting from perl-$base:\n";
      $info++;
    }
    if ($API{$Sf}{provided}) {
      my $todo = $API{$Sf}{todo} ? format_version($API{$Sf}{todo}) : "5.003";
      print "Support by $ppport provided back to perl-$todo:\n";
      print "Support needs to be explicitly requested by NEED_$Sf:\n" if exists $need{$Sf};
      print "Depends on: \", join\(', ', @$depends{$Sf}\)\), \",\n" if exists $depends{$Sf};
      print "\n\nShints\(Sf\)\)" if exists $Shints{$Sf};
      print "\n\nWARNING: $warnings{$Sf}" if exists $warnings{$Sf};
      $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;
      })
    }
  }
else {
  eval {
      require File::Find;
      File::Find::find(sub {
        $File::Find::name =~ /($srcext)$i
        and push @files, $File::Find::name;
      })
    }
  }
}
if ($@) {
    @files = map { glob "^*$_" } @srext;
}

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$ppport\E$/i || !/($srext)$/i;
    }
    if (@ARGV && @out) {
        warn("Skipping the following files (use --nofilter to avoid this):
        | " , 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 ...\n");
    my $c = do { local $/; <IN> };
    close IN;
    my %file = (orig => $c, changes => 0);
    # Temporarily remove C/XS comments and strings from the code
    my @cocom;
    $c =~ s{
        ( \n| ^\n*\#\n*include\b[^(\r\n)+|\b(?:\Q$ppport\h|XS\b)[^(\r\n)+]*
        \n| ^\n*\#\n*\b[^(\r\n)+|\b(?:\Q$ppport\h|XS\b)[^(\r\n)+]*
        | ( \n| ^\n*\b[^(\r\n)+|\b(?:\Q$ppport\h|XS\b)[^(\r\n)+]*
        | "[\n\"]\b[^(\r\n)+|\b(?:\Q$ppport\h|XS\b)[^(\r\n)+]*
    }
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /\^/SHS*#SHS*include[^\r\n]+\bQ$ppport\b/m;

my $func;

for ($func (keys %API) {
    my $match = $func;
    $match .= "|$revreplace{$func}" if exists $revreplace{$func};
    if ($c =~ /Ab(?:Perl_)?($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 $file{uses}{$_};
                    }
                }
            }
        }
    }
    if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{compat-version}) {
        if ($c =~ /$func\b/) {
            $file{uses_todo}{$func}++;
        }
    }
}

while ($c =~ /\^/SHS*#SHS*define$SHS+(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) {
warning("Doesn't pass interpreter argument aTHX to Perl_$func");
$file{changes} += $changes;
}
}
}
else {

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warning("Uses Perl_$func instead of $func");
$func{changes} += ($c =~ s{\bPerl_$func\(\s*\)?\s*}{'\$func$1(}g);
}

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

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

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

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

for $func (sort keys %{$func{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:$.*$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+.*$LF//mg)) {
        $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$HS+NEED_\w+.*$LF//mg)/$1$pp/ms)
|| ($c =~ s/^(?=$HS*#$HS*include.*\Q$ppport\E)/$pp/m)
|| ($c =~ s/^($HS*#$HS*include.*XSUB.*\s*?)^/$1$pp/m)
|| ($c =~ s/^/$pp/);

else {
    if ($file{has_inc_ppport}) {
        diag("No need to include \$ppport");
        $file{changes} += ($c =~ s/^$HS*?#$HS*include.*\Q$ppport\E.*?$LF//m);
    }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
    } else {
        $c =~ s/$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}";
        warning("Uses $opt{copy} C++ style comment, 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 {
    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 = 'dpptemp';
    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_)+\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 =~ /([0-9]+)([0-9]{3})([0-9]{3})/;
$v = int $v;
$s = int $s;

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

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

    return $ver;
}

return sprintf "%d.%d.%d", $r, $v, $s;
}

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

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

sub warning
{
$opt{quiet} and return;
print "*** ", @_, "\n";
}
sub error
{
print "*** ERROR: ", @_, "\n";
}
my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
my $warn = $warnings{$func};
$warn =~ s!^!*** !mg;
print "*** WARNING: $func\n", $warn;
$rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;
print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE
exit 2;
}
sub strip
{
my $self = do { local(@ARGV,$/)=($0); <> };
my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^=\w+/ms;

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1.58/ppport.h
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=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);
$ary[3] = shared_clone([ {}, [] ]);
my ($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

=item shared_clone REF

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

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

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

my $obj = {'foo' => [qw/foo bar baz/]};
bless($obj, 'Foo');
my $cpy = shared_clone($obj);
print(ref($cpy), 'n');       # Outputs 'Foo'
For cloning empty array or hash refs, the following may also be used:

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

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

```
$threads::shared::clone_warn = 1;
```

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

```
$threads::shared::clone_warn = 0;
```

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

=item is_shared VARIABLE

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

```perl
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.)

```perl
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 \texttt{lock} call will block until it's available. Multiple calls to \texttt{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.

\texttt{lock} follows references exactly I<one> level:

\begin{verbatim}
my %hash :shared;
my $ref = %hash;
lock($ref);  # This is equivalent to lock(%hash)
\end{verbatim}

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.

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

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:

\begin{verbatim}
my %hash :shared;
$hash['foo'] = 'bar';
#lock($hash['foo']);  # Error
lock(%hash);          # Works
\end{verbatim}

If you need more fine-grained control over shared variable access, see \texttt{Thread::Semaphore}.

=item cond_wait VARIABLE
=item cond_wait CONDVAR, LOCKVAR

The \texttt{cond_wait} function takes a B<locked> variable as a parameter, unlocks the variable, and blocks until another thread does a \texttt{cond_signal} or \texttt{cond_broadcast} for that same locked variable. The variable that \texttt{cond_wait} blocked on is re-locked after the \texttt{cond_wait} is satisfied. If there are multiple threads \texttt{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 \texttt{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, \texttt{C<cond\_wait>} takes a shared, \texttt{B<unlocked>} variable followed by a shared, \texttt{B<locked>} variable. The second variable is unlocked and thread execution suspended until another thread signals the first variable.

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

\begin{verbatim}
{ lock($counter); cond_wait($counter) until $counter == 0; }
\end{verbatim}

\texttt{=item cond\_timedwait \texttt{VARIABLE, ABS\_TIMEOUT}}

\texttt{=item cond\_timedwait \texttt{CONDVAR, ABS\_TIMEOUT, LOCKVAR}}

In its two-argument form, \texttt{C<cond\_timedwait>} takes a \texttt{B<locked>} variable and an absolute timeout in \texttt{L<epoch>} seconds (see \texttt{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 \texttt{C<cond\_wait>}, this function may take a shared, \texttt{B<locked>} variable as an additional parameter; in this case the first parameter is a \texttt{B<unlocked>} condition variable protected by a distinct lock variable.

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

\begin{verbatim}
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!
\end{verbatim}

\texttt{=item cond\_signal \texttt{VARIABLE}}

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

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

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

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

=item cond_broadcast VARIABLE

The C<cond_broadcast> function works similarly to C<cond_signal>.
C<cond_broadcast>, though, will unblock B<all> the threads that are blocked in
a C<cond_wait> on the locked variable, rather than only one.

=head1 OBJECTS

L<threads::shared> exports a version of L<bless(REF)|perlfunc/bless> 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 C<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 B<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 F<examples/class.pl> (in the CPAN
distribution of this module) for how to create a class that supports object
sharing.

Destructors may not be called on objects if those objects still exist at
global destruction time. If the destructors must be called, make sure
there are no circular references and that nothing is referencing the
objects before the program ends.

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

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

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

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

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

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

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

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

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

Either of the following will work instead:

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

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

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

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

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

=head1 SEE ALSO

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

Code repository for CPAN distribution:

L<threads>, L<perlthrtut>

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

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

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

=head1 AUTHOR

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

Documentation borrowed from the old Thread.pm.

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

=head1 LICENSE

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

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548094_1591901909.08/0/perl-threads-shared-1.58-2.el8.src.rpm-cosi-
expand-archive-r04CR9IQ/threads-shared-1.58.tar.gz-cosi-expand-archive-XH2RZBES/threads-shared-
1.58/lib/threads/shared.pm

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):

1.1035 debconf 1.5.73
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1.1036 libssh 0.9.0 4.el8

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Written by: Philip Hazel
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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
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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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1.1048 base-passwd 3.5.37

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1.1050 hostname 3.23

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hostname -- set the host name or show the host/domain name

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Found in path(s):
protected String noConfidentialPortAvailable$str() {
    return "UT010053: No confidential port is available to redirect the current request."
    public final IllegalStateException noConfidentialPortAvailable() {
        final IllegalStateException result = new IllegalStateException(String.format(getLoggingLocale(),
            noConfidentialPortAvailable$str()));

        Found in path(s):
        * /opt/cola/permits/1102171937_1603488119.26/0/undertow-servlet-2-0-26-final-sources-
            jar/io/undertow/servlet/UndertowServletMessages_$bundle.java
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        * /opt/cola/permits/1102171937_1603488119.26/0/undertow-servlet-2-0-26-final-sources-jar/META-
            INF/maven/io.undertow/undertow-servlet/pom.xml
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        *
 Servlet specific extension to [@link SinglePortConfidentialityHandler]
*  
* @author <a href="mailto:darran.lofthouse@jboss.com">Darran Lofthouse</a>
*  
* Use the HttpServerExchange supplied to check if this request is already 'sufficiently' confidential.
*  
* Here we say 'sufficiently' as sub-classes can override this and maybe even go so far as querying the actual SSLSession.
*  
* @param exchange - The [@link HttpServerExchange] for the request being processed.
* @return true if the request is 'sufficiently' confidential, false otherwise.
*/

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/ *  
* Open Source Used In APIC-SE-BATMAN 2.1.1d  11641
jar/io/undertow/servlet/util/IteratorEnumeration.java
* /opt/cola/permits/1102171937_1603488119.26/0/undertow-servlet-2-0-26-final-sources-
jar/io/undertow/servlet/Servlets.java
* /opt/cola/permits/1102171937_1603488119.26/0/undertow-servlet-2-0-26-final-sources-
jar/io/undertow/servlet/core/ManagedFilter.java
* /opt/cola/permits/1102171937_1603488119.26/0/undertow-servlet-2-0-26-final-sources-
jar/io/undertow/servlet/spec/ServletCookieAdaptor.java
* /opt/cola/permits/1102171937_1603488119.26/0/undertow-servlet-2-0-26-final-sources-
jar/io/undertow/servlet/api/SingleConstraintMatch.java
* /opt/cola/permits/1102171937_1603488119.26/0/undertow-servlet-2-0-26-final-sources-
jar/io/undertow/servlet/api/LoginConfig.java
* /opt/cola/permits/1102171937_1603488119.26/0/undertow-servlet-2-0-26-final-sources-
jar/io/undertow/servlet/core/BlockingWriterSenderImpl.java
* /opt/cola/permits/1102171937_1603488119.26/0/undertow-servlet-2-0-26-final-sources-
jar/io/undertow/servlet/handlers/security/ServletAuthenticationConstraintHandler.java
* /opt/cola/permits/1102171937_1603488119.26/0/undertow-servlet-2-0-26-final-sources-
jar/io/undertow/servlet/handlers/security/ServletSingleSignOnAuthenticationMechanism.java
* /opt/cola/permits/1102171937_1603488119.26/0/undertow-servlet-2-0-26-final-sources-
jar/io/undertow/servlet/util/ImmediateInstanceFactory.java
* /opt/cola/permits/1102171937_1603488119.26/0/undertow-servlet-2-0-26-final-sources-
jar/io/undertow/servlet/handlers/ServletPathMatches.java
* /opt/cola/permits/1102171937_1603488119.26/0/undertow-servlet-2-0-26-final-sources-
jar/io/undertow/servlet/attribute/ServletRequestParameterAttribute.java
* /opt/cola/permits/1102171937_1603488119.26/0/undertow-servlet-2-0-26-final-sources-
jar/io/undertow/servlet/api/DeploymentManager.java
* /opt/cola/permits/1102171937_1603488119.26/0/undertow-servlet-2-0-26-final-sources-
jar/io/undertow/servlet/core/InMemorySessionManagerFactory.java
* /opt/cola/permits/1102171937_1603488119.26/0/undertow-servlet-2-0-26-final-sources-
jar/io/undertow/servlet/core/ApplicationListeners.java
* /opt/cola/permits/1102171937_1603488119.26/0/undertow-servlet-2-0-26-final-sources-
jar/io/undertow/servlet/handlers/ServletDebugPageHandler.java
* /opt/cola/permits/1102171937_1603488119.26/0/undertow-servlet-2-0-26-final-sources-
jar/io/undertow/servlet/attribute/ServletRequestParameterAttribute.java
* /opt/cola/permits/1102171937_1603488119.26/0/undertow-servlet-2-0-26-final-sources-
jar/io/undertow/servlet/api/DeploymentManager.java
* /opt/cola/permits/1102171937_1603488119.26/0/undertow-servlet-2-0-26-final-sources-
jar/io/undertow/servlet/core/InMemorySessionManagerFactory.java
* /opt/cola/permits/1102171937_1603488119.26/0/undertow-servlet-2-0-26-final-sources-
1.1052 ncurses 6.1+20181013 2+deb10u2

1.1052.1 Available under license:
Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

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

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

1.1053 iputils 20121221 7.el7

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1.1054 jackson-databind 2.9.9.3

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1.1055 bzip2 1.0.6-13.el7_9.0atomix1
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1.1056 spdylay 1.4.0

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1.1057 reflections 0.9.12

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1.1063 selinux 2.9-3.el8

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

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

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

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

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

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

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

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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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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under the terms of Sections 1 and 2 above provided that you accompany
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medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
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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.

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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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.)

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

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

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

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

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

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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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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1.1071 coreutils 8.30 3ubuntu2

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* /opt/ws_local/PERMITS_SQL/1068412384_1594388478.68/0/spring-orm-5-2-5-release-sources-jar/org/springframework/orm/jpa/persistenceunit/PersistenceUnitReader.java
* /opt/ws_local/PERMITS_SQL/1068412384_1594388478.68/0/spring-orm-5-2-5-release-sources-jar/org/springframework/orm/jpa/vendor/EclipseLinkJpaVendorAdapter.java
* /opt/ws_local/PERMITS_SQL/1068412384_1594388478.68/0/spring-orm-5-2-5-release-sources-jar/org/springframework/orm/jpa/persistenceunit/DefaultPersistenceUnitManager.java
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* {createEntityManager} call (may be {null})
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* /opt/cola/permits/1184182404_1627536788.83/0/maven-wrapper-0-5-5-sources-jar/org/apache/maven/wrapper/PathAssembler.java
1.1076 kubernetes-apimachinery v0.0.0-
20201204214525-af46c47ce925

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        Name: "Simplified BSD License",
        PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
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func init BSDClause3() {
    Licenses["bsd"] = License{
        Name: "NewBSD",
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func initGpl2() {
    Licenses["gpl2"] = License{
        Name:            "GNU General Public License 2.0",
        PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
        Header: `This program is free software; you can redistribute it and/or
                modify it under the terms of the GNU General Public License
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}
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"
package cmd

import (  
  "strings"
  "time"

  "github.com/spf13/viper"
)

// Licenses contains all possible licenses a user can choose from.
var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of  
// the license, its possible matches (on the command line as given to cobra),  
// the header to be used with each file on the file's creating, and the text  
// of the license
type License struct {
  Name            string   // The type of license in use
  PossibleMatches []string // Similar names to guess
  Text            string   // License text data
  Header          string   // License header for source files
}

func init() {
  // Allows a user to not use a license.
  Licenses["none"] = License{"None", []string{"none", "false"}, "", ""}  

  initApache2()  
  initMit()  
  initBsdClause3()  
  initBsdClause2()
initGpl2()
initGpl3()
initLgpl()
initAgpl()
}

// getLicense returns license specified by user in flag or in config. // If user didn't specify the license, it returns Apache License 2.0. //
// TODO: Inspect project for existing license
func getLicense() License {
// If explicitly flagged, use that.
if userLicense != "" {
    return findLicense(userLicense)
}

// If user wants to have custom license, use that.
if viper.IsSet("license.header") || viper.IsSet("license.text") {
    return License{Header: viper.GetString("license.header"),
                  Text: viper.GetString("license.text")}
}

// If user wants to have built-in license, use that.
if viper.IsSet("license") {
    return findLicense(viper.GetString("license"))
}

// If user didn't set any license, use Apache 2.0 by default.
return Licenses["apache"]
}

func copyrightLine() string {
    author := viper.GetString("author")

    year := viper.GetString("year") // For tests.
    if year == "" {
        year = time.Now().Format("2006")
    }

    return "Copyright " + year + " " + author
}

// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and // error will be printed.
func findLicense(name string) License {
    found := matchLicense(name)
    if found == ""

// matchLicense compares the given a license name
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank string or it didn't find
// then appropriate match to name.
func matchLicense(name string) string {
    if name == "" {
        return ""
    }

    for key, lic := range Licenses {
        for _, match := range lic.PossibleMatches {
            if strings.EqualFold(name, match) {
                return key
            }
        }
    }

    return ""
}

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    Licenses["gpl3"] = License{
        Name:            "GNU General Public License 3.0",
        PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
        Header: `This program is free software: you can redistribute it and/or modify
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func initLGPL() {
    Licenses["lgpl"] = License{
        Name: "GNU Lesser General Public License",
        PossibleMatches: ["lgpl", "lesser gpl", "gnu lgpl"],
        Header: ``
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    Licenses["agpl"] = License{
        Name:            "GNU Affero General Public License",
        PossibleMatches: []string{"agpl", "affero gpl", "gnu agpl"},
        Header: `This program is free software: you can redistribute it and/or modify
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Version 3, 19 November 2007

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package cmd

func initApache2() {
    Licenses["apache"] = License{
        Name:            "Apache 2.0",
        PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
        Header: `Licensed under the Apache License, Version 2.0 (the "License");
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func initMit() {
  Licenses["mit"] = License{
    Name: "MIT License",
    PossibleMatches: []string{"mit"},
    Header: `Permission is hereby granted, free of charge, to any person obtaining a copy
    of this software and associated documentation files (the "Software"), to deal
    in the Software without restriction, including without limitation the rights
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

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

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

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

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

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

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* /opt/cola/permits/1168237001_1621962030.66/0/netty-transport-4-1-63-final-jar/META-INF/native-image/io.netty/transport/native-image.properties

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

Manifest-Version: 1.0
Implementation-Title: Netty/Transport
Bundle-Description: Netty is an asynchronous event-driven network appl
ication framework for rapid development of maintainable high perfo
rmance protocol servers and clients.
Automatic-Module-Name: io.netty.transport
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.transport
Implementation-Version: 4.1.63.Final
Built-By: root
Bnd-LastModified: 1617274755207
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: io.netty.buffer;version="[4.1,5)" ,io.netty.resolver;ve
rsion="[4.1,5)" ,io.netty.util;version="[4.1,5)" ,io.netty.util.concurr
1.1097 mgo v2.0.0-20190816093944-a6b53ec6cb22
1.1097.1 Available under license :

mgo - MongoDB driver for Go

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 */

type minio

import (  
  "bytes"  
  "context"  
  "encoding/xml"  
  "fmt"  
  "net/http"  
  "net/url"  
  "github.com/minio/minio-go/v7/pkg/s3utils"
)
// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html

package main

import "encoding/xml"

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

const (  // LegalHoldEnabled indicates legal hold is enabled  LegalHoldEnabled LegalHoldStatus = "ON"  // LegalHoldDisabled indicates legal hold is disabled  LegalHoldDisabled LegalHoldStatus = "OFF"
)

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

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

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

// objectLegalHold struct {  XMLNS string `xml:"xmlns,attr,omitempty"`  XMLName xml.Name `xml:"LegalHold"`  Status LegalHoldStatus `xml:"Status,omitempty"`
}  
// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {  VersionID string  Status  *LegalHoldStatus
}

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
type GetObjectLegalHoldOptions struct {  VersionID string
}

// legalHold - object legal hold
func (c Client) PutObjectLegalHold(ctx context.Context, bucketName, objectName string, opts PutObjectLegalHoldOptions) error {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return err
    }

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

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

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

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

    // Execute PUT Object Legal Hold.
    defer closeResponse(resp)
if err != nil {
    return err
}
if resp != nil {
        return httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
return nil

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

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

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

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

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

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

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## c-ares

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

## zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

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(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

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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
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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.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:

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

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

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

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Oracle

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

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

Oracle OpenJDK

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

* java.sun.security.ssl

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

OW2

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

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

Apache

The following artifacts are ASL2 licensed.

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

MortBay

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

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

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Mortbay

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.1117 lucene-backward-codecs 7.7.0

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tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c, 
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Libgcrypt used to be part of GnuPG but has been taken out into its own package on 2000-12-21.

Most of the stuff in mpi has been taken from an old GMP library
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The ECC code cipher/ecc.c was based on code by Sergi Blanch i Torne, sergi@calcurco.org.

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---------

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The source file `passlib/crypto/_blowfish/base.py` contains code derived
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implementation of the BCrypt password hash algorithm. It is available under
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1.1132 libcgroup 0.41 21.el7

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1.1136 libxau 1.0.8-2.1.el7

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

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1.1139 at-spi2-core 2.8.0 6.el7
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1.1141 libidn 2.0.5 1+deb10u1

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1.1142 coverage 4.5.3
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Coverage.py was originally written by Gareth Rees, and since 2004 has been
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Other contributions, including writing code, updating docs, and submitting useful bug reports, have been made by:

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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Validation.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ValidatorContext.java
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Valid.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/CrossParameterDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ClockProvider.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Configuration.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/executable/ValidateOnExecution.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Size.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/PastOrPresent.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintViolationException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/bootstrap/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/TraversableResolver.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/executable/ExecutableValidator.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ValidationProviderResolver.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ValidatorFactory.java
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/META-INF/maven/jakarta.validation/jakarta.validation-api/pom.xml

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// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
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1.1150 jackson-jaxrs-base 2.10.5

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1.1153 jetty-security 9.4.24.v20191120

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Eclipse

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

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

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

------

Oracle

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

------
Oracle OpenJDK

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

* java.sun.security.ssl

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

------
OW2

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

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

------
Apache

The following artifacts are ASL2 licensed.

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

------
MortBay

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

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

------
Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

------
Assorted

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1.1157 gobject-introspection 1.42.0 1.el7

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  jar/io/netty/channel/epoll/EpollChannelOption.java
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  jar/io/netty/channel/epoll/AbstractEpollChannel.java
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-
  jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-
  jar/io/netty/channel/epoll/EpollEventLoop.java

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 */
/**
 * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */
/**
 * Set the {@code TCP_QUICKACK} option on the socket. See <a href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
 * for more details.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/EpollSocketChannelConfig.java
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* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/netty_epoll_native.c

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  jar/org/apache/commons/logging/package.html
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1.1163 jackson-module-parameter-names

2.9.9

1.1164 bzip2 1.0.5

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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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Appendix: How to Apply These Terms to Your New Programs

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<one line to give the program's name and a brief idea of what it does.>
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   `Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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

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

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

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

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

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

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

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

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

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

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

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This software is the work of Tom Lane, Philip Gladstone, Jim Boucher,
Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi,
Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG
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DOCUMENTATION ROADMAP
This file contains the following sections:

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

Other documentation files in the distribution are:

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

Programmer and internal documentation:
  libjpeg.doc      How to use the JPEG library in your own programs.
  example.c        Sample code for calling the JPEG library.
  structure.doc    Overview of the JPEG library's internal structure.
  filelist.doc     Road map of IJG files.
  coderules.doc   Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information
 can also be found in the JPEG FAQ (Frequently Asked Questions) article. See
 ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or
more of the REFERENCES, then looking at the documentation files (in roughly
the order listed) before diving into the code.

OVERVIEW

This package contains C software to implement JPEG image compression and
decompression. JPEG (pronounced "jay-peg") is a standardized compression
method for full-color and gray-scale images. JPEG is intended for compressing
"real-world" scenes; line drawings, cartoons and other non-realistic images
are not its strong suit. JPEG is lossy, meaning that the output image is not
exactly identical to the input image. Hence you must not use JPEG if you
have to have identical output bits. However, on typical photographic images,
very good compression levels can be obtained with no visible change, and
remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djep", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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

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

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

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

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


The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

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

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:
Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314
A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.
The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS

The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.

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RELATED SOFTWARE

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Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/. Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
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Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not.
Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO

The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

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

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

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

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

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Oracle OpenJDK

If ALPN is used to negotiate HTTP2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

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

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OW2

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

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

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Apache

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

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MortBay

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following Apache Tomcat jars, all ASL2 licensed.

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

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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

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librdkafka - Apache Kafka C driver library

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* /opt/cola/permits/1177939664_1625570679.69/0/spring-plugin-core-1-2-0-release-sources-6-
  jar/org/springframework/plugin/core/support/PluginRegistryFactoryBean.java
* /opt/cola/permits/1177939664_1625570679.69/0/spring-plugin-core-1-2-0-release-sources-6-
  jar/org/springframework/plugin/core/PluginRegistry.java
* /opt/cola/permits/1177939664_1625570679.69/0/spring-plugin-core-1-2-0-release-sources-6-
  jar/org/springframework/plugin/core/Plugin.java
/*
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*/

Found in path(s):

* /opt/cola/permits/1177939664_1625570679.69/0/spring-plugin-core-1-2-0-release-sources-6-jar/org/springframework/plugin/core/support/BeanListFactoryBean.java

1.1186 youtube-vitess v2.1.1+incompatible
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1.1187 jetty-util 9.4.27.v20200227

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

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

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

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

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

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Oracle OpenJDK

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

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

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

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

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

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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---
abstract: 'Perl interface to the MD-5 algorithm'
author:
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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'
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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/ws_local/PERMITS_SQL/1009548130_1591379411.76/0/perl-Digest-MD5-2.55-396.el8.src.rpm-cosi-expand-archive-qfwrDrjx/Digest-MD5-2.55.tar.gz-cosi-expand-archive-xOrAnhrN/Digest-MD5-2.55/META.yml

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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

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Acknowlegements

We would like to thank Don Coppersmith, Burt Kaliski, Ralph Merkle, David Chaum, and Noam Nisan for numerous helpful comments and suggestions.

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1. Executive Summary

This document describes the MD5 message-digest algorithm. The algorithm takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input. It is conjectured that it is computationally infeasible to produce two messages having the same message digest, or to produce any message having a given prespecified target message digest. The MD5 algorithm is intended for digital signature applications, where a large file must be "compressed" in a secure manner before being encrypted with a private (secret) key under a public-key cryptosystem such as RSA.

Rivest

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The MD5 algorithm is designed to be quite fast on 32-bit machines. In addition, the MD5 algorithm does not require any large substitution
tables; the algorithm can be coded quite compactly.

The MD5 algorithm is an extension of the MD4 message-digest algorithm [1,2]. MD5 is slightly slower than MD4, but is more "conservative" in design. MD5 was designed because it was felt that MD4 was perhaps being adopted for use more quickly than justified by the existing critical review; because MD4 was designed to be exceptionally fast, it is "at the edge" in terms of risking successful cryptanalytic attack. MD5 backs off a bit, giving up a little in speed for a much greater likelihood of ultimate security. It incorporates some suggestions made by various reviewers, and contains additional optimizations. The MD5 algorithm is being placed in the public domain for review and possible adoption as a standard.

For OSI-based applications, MD5's object identifier is

\[
\text{md5 OBJECT IDENTIFIER ::= iso(1) member-body(2) US(840) rsadsi(113549) digestAlgorithm(2) 5}
\]

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 \( \text{not}(X) \) denote the bit-wise complement of X, and let \( X \text{ v } Y \) denote the bit-wise OR of X and Y. Let \( X \text{ xor } Y \) denote the bit-wise XOR of X and Y, and let \( XY \) denote the bit-wise AND of X and Y.
3. MD5 Algorithm Description

We begin by supposing that we have a b-bit message as input, and that we wish to find its message digest. Here b is an arbitrary nonnegative integer; b may be zero, it need not be a multiple of eight, and it may be arbitrarily large. We imagine the bits of the message written down as follows:

\[ m_0 \ m_1 \ \ldots \ m_{(b-1)} \]

The following five steps are performed to compute the message digest of the message.

3.1 Step 1. Append Padding Bits

The message is "padded" (extended) so that its length (in bits) is congruent to 448, modulo 512. That is, the message is extended so that it is just 64 bits shy of being a multiple of 512 bits long. Padding is always performed, even if the length of the message is already congruent to 448, modulo 512.

Padding is performed as follows: a single "1" bit is appended to the message, and then "0" bits are appended so that the length in bits of the padded message becomes congruent to 448, modulo 512. In all, at least one bit and at most 512 bits are appended.

3.2 Step 2. Append Length

A 64-bit representation of b (the length of the message before the padding bits were added) is appended to the result of the previous step. In the unlikely event that b is greater than 2^64, then only the low-order 64 bits of b are used. (These bits are appended as two 32-bit words and appended low-order word first in accordance with the previous conventions.)

At this point the resulting message (after padding with bits and with b) has a length that is an exact multiple of 512 bits. Equivalently, this message has a length that is an exact multiple of 16 (32-bit) words. Let M[0 ... N-1] denote the words of the resulting message, where N is a multiple of 16.

3.3 Step 3. Initialize MD Buffer
A four-word buffer (A,B,C,D) is used to compute the message digest. Here each of A, B, C, D is a 32-bit register. These registers are initialized to the following values in hexadecimal, low-order bytes first:

\[
\begin{align*}
\text{word A: } & \text{01 23 45 67} \\
\text{word B: } & \text{89 ab cd ef} \\
\text{word C: } & \text{fe dc ba 98} \\
\text{word D: } & \text{76 54 32 10}
\end{align*}
\]

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.

\[
\begin{align*}
F(X,Y,Z) & = XY \lor \lnot(X) \land Z \\
G(X,Y,Z) & = XZ \lor Y \lnot(Z) \\
H(X,Y,Z) & = X \oplus Y \oplus Z \\
I(X,Y,Z) & = Y \oplus (X \lor \lnot(Z))
\end{align*}
\]

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 \lnot(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 ... 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 abs(sin(i)), where i is in radians. The elements of the table are given in the appendix.
Do the following:

/* Process each 16-word block. */
For i = 0 to N/16-1 do

/* Copy block i into X. */
For j = 0 to 15 do
    Set X[j] to M[i*16+j].
end /* of loop on j */

/* Save A as AA, B as BB, C as CC, and D as DD. */
AA = A
BB = B
CC = C
DD = D

/* Round 1. */
/* Let [abcd k s i] denote the operation
   a = b + ((a + F(b,c,d) + X[k] + T[i]) <<< s). */
/* Do the following 16 operations. */
[ABCD 0  7  1]  [DABC  1 12  2]  [CDAB  2 17  3]  [BCDA  3 22  4]
[ABCD  4  7  5]  [DABC  5 12  6]  [CDAB  6 17  7]  [BCDA  7 22  8]
[ABCD  8  7  9]  [DABC  9 12 10]  [CDAB 11 14 11]  [BCDA 11 22 12]
[ABCD 12  7 13]  [DABC 13 12 14]  [CDAB 14 17 15]  [BCDA 15 22 16]

/* Round 2. */
/* Let [abcd k s i] denote the operation
   a = b + ((a + G(b,c,d) + X[k] + T[i]) <<< s). */
/* Do the following 16 operations. */
[ABCD  1  5 17]  [DABC  6  9 18]  [CDAB 11 14 19]  [BCDA  0 20 20]
[ABCD  5  5 21]  [DABC 10  9 22]  [CDAB 15 14 23]  [BCDA  4 20 24]
[ABCD  9  5 25]  [DABC 14  9 26]  [CDAB  3 14 27]  [BCDA  8 20 28]
[ABCD 13  5 29]  [DABC  2  9 30]  [CDAB  7 14 31]  [BCDA 12 20 32]

/* Round 3. */
/* Let [abcd k s t] denote the operation
   a = b + ((a + H(b,c,d) + X[k] + T[i]) <<< s). */
/* Do the following 16 operations. */
[ABCD  5  4 33]  [DABC  8 11 34]  [CDAB 11 16 35]  [BCDA 14 23 36]
/* Round 4. */
/* Let [abcd k s t] denote the operation */
a = b + ((a + T(b,c,d) + X[k]) <<< 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 $(XY \lor XZ \lor YZ)$ to $(XZ \lor Y \neg(Z))$ to make $g$ less symmetric.

4. Each step now adds in the result of the previous step. This promotes a faster "avalanche effect".

5. The order in which input words are accessed in rounds 2 and 3 is changed, to make these patterns less like each other.

6. The shift amounts in each round have been approximately optimized, to yield a faster "avalanche effect." The shifts in different rounds are distinct.

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:

- md5driver.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. */
```c
#ifndef PROTOTYPES
#define PROTOTYPES 0
#endif

/* POINTER defines a generic pointer type */
typedef unsigned char *POINTER;

/* UINT2 defines a two byte word */
typedef unsigned short int UINT2;

/* UINT4 defines a four byte word */
typedef unsigned long int UINT4;

/* PROTO_LIST is defined depending on how PROTOTYPES is defined above.
If using PROTOTYPES, then PROTO_LIST returns the list, otherwise it
returns an empty list. */
#if PROTOTYPES
#define PROTO_LIST(list) list
#else
#define PROTO_LIST(list) ()
#endif

A.2 md5.h

/* MD5.H - header file for MD5C.C */

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/* MD5 context. */

typedef struct {
    UINT4 state[4]; /* state (ABCD) */
    UINT4 count[2]; /* number of bits, modulo 2^64 (lsb first) */
    unsigned char buffer[64]; /* input buffer */
} MD5_CTX;

void MD5Init PROTO_LIST ((MD5_CTX *));
void MD5Update PROTO_LIST ((MD5_CTX *, unsigned char *, unsigned int));
void MD5Final PROTO_LIST ((unsigned char [16], MD5_CTX *));

A.3 md5c.c

/* MD5C.C - RSA Data Security, Inc., MD5 message-digest algorithm */

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*/
#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)); 
(a) += (b); 
}
#define GG(a, b, c, d, x, s, ac) { 
(a) += G ((b), (c), (d)) + (x) + (UINT4)(ac); 
(a) = ROTATE_LEFT ((a), (s)); 
(a) += (b); 
}
#define HH(a, b, c, d, x, s, ac) { 
(a) += H ((b), (c), (d)) + (x) + (UINT4)(ac); 
(a) = ROTATE_LEFT ((a), (s)); 
(a) += (b); 
}
#define II(a, b, c, d, x, s, ac) { 
(a) += I ((b), (c), (d)) + (x) + (UINT4)(ac); 
(a) = ROTATE_LEFT ((a), (s)); 
(a) += (b); 
}

/* MD5 initialization. Begins an MD5 operation, writing a new context. */
#define MD5Init (context) 

MD5_CTX *context; /* context */
{  
    context->count[0] = context->count[1] = 0;
    /* Load magic initialization constants. */
context->state[0] = 0x67452301;
context->state[1] = 0xefcdab89;
context->state[2] = 0x98badcfe;
context->state[3] = 0x10325476;
}

/* MD5 block update operation. Continues an MD5 message-digest operation, processing another message block, and updating the context. */
void MD5Update (context, input, inputLen)
MD5_CTX *context;                                        /* context */
unsigned char *input;                                /* input block */
unsigned int inputLen;                     /* length of input block */
{
    unsigned int i, index, partLen;

    /* Compute number of bytes mod 64 */
    index = (unsigned int)((context->count[0] >> 3) & 0x3F);

    /* Update number of bits */
    if ((context->count[0] += ((UINT4)inputLen << 3))
        < ((UINT4)inputLen << 3))
        context->count[1]++;
    context->count[1] += ((UINT4)inputLen >> 29);

    partLen = 64 - index;

    /* Transform as many times as possible. */
    if (inputLen >= partLen) {
        MD5_memcpy
            (context->buffer + index, input, partLen);
        MD5Transform (context->state, context->buffer);

        for (i = partLen; i + 63 < inputLen; i += 64)
            MD5Transform (context->state, &input[i]);

        index = 0;
    }

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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
   message digest and zeroizing the context. */
void MD5Final (digest, context)
unsigned char digest[16]; /* message digest */
MD5_CTX *context; /* context */
{
unsigned char bits[8];
unsigned int index, padLen;

/* Save number of bits */
Encode (bits, context->count, 8);

/* Pad out to 56 mod 64. */
index = ((unsigned int)((context->count[0] >> 3) & 0x3f));
padLen = (index < 56) ? (56 - index) : (120 - index);
MD5Update (context, PADDING, padLen);

/* Append length (before padding) */
MD5Update (context, bits, 8);

/* Store state in digest */
Encode (digest, context->state, 16);

/* Zeroize sensitive information. */
MD5_memset ((POINTER)context, 0, sizeof (*context));
}

/* MD5 basic transformation. Transforms state based on block. */
static void MD5Transform (state, block)
UINT4 state[4];
unsigned char block[64];
{
  UINT4 a = state[0], b = state[1], c = state[2], d = state[3], x[16];

  Decode (x, block, 64);

  /* Round 1 */
  FF (a, b, c, d, x[ 0], S11, 0xd76aa478); /* 1 */
  FF (d, a, b, c, x[ 1], S12, 0x0e8c7b756); /* 2 */
  FF (c, d, a, b, x[ 2], S13, 0x024207db); /* 3 */
  FF (b, c, d, a, x[ 3], S14, 0xcd1bcee); /* 4 */
  FF (a, b, c, d, x[ 4], S11, 0x5f57c0f2); /* 5 */
  FF (d, a, b, c, x[ 5], S12, 0x384f2ad); /* 6 */
  FF (c, d, a, b, x[ 6], S13, 0x38a304613); /* 7 */
  FF (b, c, d, a, x[ 7], S14, 0x0f4d69501); /* 8 */
  FF (a, b, c, d, x[ 8], S11, 0x980988d); /* 9 */
  FF (d, a, b, c, x[ 9], S12, 0x08b44f7af); /* 10 */
  FF (c, d, a, b, x[10], S13, 0x5f57c0f2); /* 11 */
  FF (b, c, d, a, x[11], S14, 0x980988d); /* 12 */
  FF (a, b, c, d, x[12], S11, 0x5f57c0f2); /* 13 */
  FF (d, a, b, c, x[13], S12, 0x0f4d69501); /* 14 */
  FF (c, d, a, b, x[14], S13, 0x0f4d69501); /* 15 */
  FF (b, c, d, a, x[15], S14, 0x0f4d69501); /* 16 */

  /* Round 2 */
  GG (a, b, c, d, x[ 1], S21, 0xf61e256); /* 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, 0x6b901122); /* 21 */
  GG (d, a, b, c, x[10], S22, 0x2441453); /* 22 */
  GG (c, d, a, b, x[15], S23, 0xdd8a1e681); /* 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 */

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  GG (b, c, d, a, x[ 8], S24, 0x455a14ed); /* 28 */
  GG (a, b, c, d, x[13], S21, 0xa9e37905); /* 29 */
/* Round 3 */
HH (a, b, c, d, x[ 5], S31, 0xfffa3942); /* 33 */
HH (d, a, b, c, x[ 8], S32, 0x8771f681); /* 34 */
HH (c, d, a, b, x[11], S33, 0x6d9d6122); /* 35 */
HH (b, c, d, a, x[14], S34, 0xfde5380c); /* 36 */
HH (a, b, c, d, x[ 1], S31, 0xa4beea44); /* 37 */
HH (d, a, b, c, x[ 4], S32, 0x4bdecfa9); /* 38 */
HH (c, d, a, b, x[ 7], S33, 0xf6bb4b60); /* 39 */
HH (b, c, d, a, x[10], S34, 0xbebfb7c70); /* 40 */
HH (a, b, c, d, x[13], S31, 0x289b7ec6); /* 41 */
HH (d, a, b, c, x[ 0], S32, 0xeaa127fa); /* 42 */
HH (c, d, a, b, x[ 3], S33, 0xd4ef3085); /* 43 */
HH (b, c, d, a, x[ 6], S34, 0x4881d05); /* 44 */
HH (a, b, c, d, x[ 9], S31, 0x9d9d4d039); /* 45 */
HH (d, a, b, c, x[12], S32, 0xe6db99e5); /* 46 */
HH (c, d, a, b, x[15], S33, 0x1fa27cf8); /* 47 */
HH (b, c, d, a, x[ 2], S34, 0xc4ac5665); /* 48 */

/* Round 4 */
II (a, b, c, d, x[ 0], S41, 0xf4292244); /* 49 */
II (d, a, b, c, x[ 7], S42, 0xf432a797); /* 50 */
II (c, d, a, b, x[14], S43, 0xab9423a7); /* 51 */
II (b, c, d, a, x[ 5], S44, 0xc93a039); /* 52 */
II (a, b, c, d, x[12], S41, 0x655b59c3); /* 53 */
II (d, a, b, c, x[ 3], S42, 0x8f0ccc92); /* 54 */
II (c, d, a, b, x[10], S43, 0xf6ff47d); /* 55 */
II (b, c, d, a, x[ 1], S44, 0x85845dd1); /* 56 */
II (a, b, c, d, x[ 8], S41, 0x6fa87e4f); /* 57 */
II (d, a, b, c, x[15], S42, 0x2ce66e0); /* 58 */
II (c, d, a, b, x[ 6], S43, 0x30a1314); /* 59 */
II (b, c, d, a, x[13], S44, 0xe0811a1); /* 60 */
II (a, b, c, d, x[ 4], S41, 0x75f37e82); /* 61 */
II (d, a, b, c, x[11], S42, 0xb3ad335); /* 62 */
II (c, d, a, b, x[ 2], S43, 0x2ad7d2bb); /* 63 */
II (b, c, d, a, x[ 9], S44, 0xeb86d391); /* 64 */

state[0] += a;
state[1] += b;
state[2] += c;
state[3] += d;

/* Zeroize sensitive information.
/

MD5_memset ((POINTER)x, 0, sizeof (x));

/*
 * Encodes input (UINT4) into output (unsigned char). Assumes len is
 * a multiple of 4.
 */
static void Encode (output, input, len)
unsigned char *output;
UINT4 *input;
unsigned int len;
{
    unsigned int i, j;

    for (i = 0, j = 0; j < len; i++, j += 4) {
        output[j] = (unsigned char)(input[i] & 0xff);
        output[j+1] = (unsigned char)((input[i] >> 8) & 0xff);
        output[j+2] = (unsigned char)((input[i] >> 16) & 0xff);
        output[j+3] = (unsigned char)((input[i] >> 24) & 0xff);
    }
}

/*
 * Decodes input (unsigned char) into output (UINT4). Assumes len is
 * a multiple of 4.
 */
static void Decode (output, input, len)
UINT4 *output;
unsigned char *input;
unsigned int len;
{
    unsigned int i, j;

    for (i = 0, j = 0; j < len; i++, j += 4)
        output[i] = ((UINT4)input[j]) | (((UINT4)input[j+1]) << 8) | (((UINT4)input[j+2]) << 16) | (((UINT4)input[j+3]) << 24);
}

/* Note: Replace "for loop" with standard memcpy if possible. */

static void MD5_memcpy (output, input, len)
POINTER output;
POINTER input;
unsigned int len;
{
    unsigned int i;

    for (i = 0; i < len; i++)
    {
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        output[i] = input[i];
    }

    /* Note: Replace "for loop" with standard memset if possible. */
    
    static void MD5_memset (output, value, len)
    POINTER output;
    int value;
    unsigned int len;
    {
        unsigned int i;

        for (i = 0; i < len; i++)
        {
            ((char *)output)[i] = (char)value;
        }
    }

A.4 mddriver.c

/* MDDRIVER.C - test driver for MD2, MD4 and MD5 */

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   documentation and/or software. */

/* 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 MDTesSuit PROTO_LIST ((void));
static void MDFile PROTO_LIST ((char *));
static void MDFilter PROTO_LIST ((void));
static void MDPrint PROTO_LIST ((unsigned char [16]));

#if MD == 2
#define MD_CTX MD2_CTX
#define MDInit MD2Init
#define MDUpdate MD2Update
#define MDFinal MD2Final
#endif
#if MD == 4
#define MD_CTX MD4_CTX
#define MDInit MD4Init
#define MDUpdate MD4Update
#define MDFinal MD4Final
#endif
/* Main driver. */

Arguments (may be any combination):
- -sstring - digests string
- -t - runs time trial
- -x - runs test script
filename - digests file
(none) - digests standard input
*/

int main (argc, argv)
char *argv[];
{
int argc;

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char *argv[];
{
int i;

if (argc > 1)
for (i = 1; i < argc; i++)
if (argv[i][0] == '-' && argv[i][1] == 's')
    MDString (argv[i] + 2);
else if (strcmp (argv[i], "-t") == 0)
    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;

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 ("1234567890123456789012345678901234567890123456789012345678901234567890");
}

/* 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];
{
unsigned int i;

for (i = 0; i < 16; i++)
printf("%02x", digest[i]);
}

A.5 Test suite

The MD5 test suite (driver option "-x") should print the following results:

MD5 test suite:
MD5 ("") = d41d8cd98f00b204e9800998ecf8427e
MD5 ("a") = 0cc175b9c0f1b6a831c399e269772661
MD5 ("abc") = 900150983cd24fb0d6963f7d28e17f72
MD5 ("message digest") = f96b697d7cb7938d525a2f31aaf161d0
MD5 ("abcdefhijklmnopqrstuvwxyz") = c3fcd376192e40076fb496cc67e13b
MD5 ("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789") =
d174ab98d277d9f5a5611c2e9f419d9f
MD5 ("12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890") =
78901234567890 = 57edf4a22be3955ac49da2e2107b67a

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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NAME

Digest::MD5 - Perl interface to the MD5 Algorithm

SYNOPSIS

# Functional style
use Digest::MD5 qw(md5 md5_hex md5_base64);

$digest = md5($data);
$digest = md5_hex($data);
$digest = md5_base64($data);

# OO style
use Digest::MD5;

$ctx = Digest::MD5->new;

$ctx->add($data);
$ctx->addfile($file_handle);

$digest = $ctx->digest;
$digest = $ctx->hexdigest;
$digest = $ctx->b64digest;

DESCRIPTION

The C<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\<Digest::MD5> module provides 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\<Digest::MD5> module. None of these functions are exported by default.

=over 4

=item md5($data,...)

This function will concatenate all arguments, calculate the MD5 digest of this "message", and return it in binary form. The returned string will be 16 bytes long.

The result of md5("a", "b", "c") will be exactly the same as the result of md5("abc").

=item md5_hex($data,...)

Same as md5(), but will return the digest in hexadecimal form. The length of the returned string will be 32 and it will only contain characters from this set: '0'..'9' and 'a'..'f'.

=item md5_base64($data,...)

Same as md5(), but will return the digest as a base64 encoded string. The 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.

=back

=head1 METHODS
The object oriented interface to C\texttt{Digest::MD5} is described in this section. After a C\texttt{Digest::MD5} object has been created, you will add data to it and finally ask for the digest in a suitable format. A single object can be used to calculate multiple digests.

The following methods are provided:

\begin{verbatim}
4

\item \$md5 = Digest::MD5-&gt;new

The constructor returns a new C\texttt{Digest::MD5} object which encapsulate the state of the MD5 message-digest algorithm.

If called as an instance method (i.e. \$md5-&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.

\item \$md5-&gt;reset

This is just an alias for \$md5-&gt;new.

\item \$md5-&gt;clone

This a copy of the \$md5 object. It is useful when you do not want to destroy the digests state, but need an intermediate value of the digest, e.g. when calculating digests iteratively on a continuous data stream. Example:

\begin{verbatim}
my \$md5 = Digest::MD5-&gt;new;
while (<>)
  \$md5-&gt;add($_);
print "Line \$:. ", \$md5-&gt;clone-&gt;hexdigest, "\n";

\end{verbatim}

\item \$md5-&gt;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:

\begin{verbatim}
\$md5-&gt;add("a"); \$md5-&gt;add("b"); \$md5-&gt;add("c");
\$md5-&gt;add("a")-&gt;add("b")-&gt;add("c");
\$md5-&gt;add("a", "b", "c");
\$md5-&gt;add("abc");
\end{verbatim}
=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, $nbins)
=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', '+'
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
=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("foobaz"), "\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:
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
";

Or we can use the addfile method for more efficient reading of the file:

use Digest::MD5;

my $filename = shift || "/etc/passwd";
open (my $fh, '<', $filename) or die "Can't open '$filename': $!";
binmode ($fh);

print Digest::MD5->new->addfile($fh)->hexdigest, " $filename
";

Since the MD5 algorithm is only defined for strings of bytes, it cannot be used on strings that contains chars with ordinal number above 255 (Unicode strings). The MD5 functions and methods will croak if you try to feed them such input data:

use Digest::MD5 qw(md5_hex);

my $str = "abc\x{300}";
print md5_hex($str), "\n"; # croaks
# Wide character in subroutine entry

What you can do is calculate the MD5 checksum of the UTF-8 representation of such strings. This is achieved by filtering the string through encode_utf8() function:

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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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

Found in path(s):
  */opt/ws_local/PERMITS_SQL/1009548130_1591379411.76/0/perl-Digest-MD5-2.55-396.el8.src.rpm-cosi-expand-archive-qfwrDrJx/Digest-MD5-2.55.tar.gz-cosi-expand-archive-xOrAnhrN/Digest-MD5-2.55/MD5.pm
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1.1202 wheel 0.32.3

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1.1203 perl-env 1.04-395.el8

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/*

ppport.h -- Perl/Pollution/Portability Version 3.25

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 3.25

=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
--nodia            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

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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.

=over 4

=item *

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

perl pppport.h --list-provided
to see which API elements are provided by 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>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>
</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.
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.

COPYRIGHT

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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 = 3.25;

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%-3d%-3d", $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( AvFILL-p|5.004050||p
AvFILL||
BhkDISABLE||5.019003
BhkENABLE||5.019003
BhkENTRY_set||5.019003
BhkENTRY||
BhkFLAGS||
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CPERLscope|5.005000||p
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CX_CURPAD_SV||
CopFILEAV|5.006000||p
CopFILEGV_set|5.006000||p
CopFILEGV|5.006000||p

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CopFILE|5.006000|p
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CvWEAKOUTSIDE||
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GvHV||
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HvNAME|5.013007|
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HvNAME||
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Nullav||
Nullch||
Nullcv||
Nullhv||

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OP_NAME[5.007003]
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PAD_COMPNAME_GEN_set[]
PAD_COMPNAME_GEN[]
PAD_COMPNAME_OURSTASH[]
PAD_COMPNAME_PV[]
PAD_COMPNAME_TYPE[]
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PAD_SAVE_LOCAL[]
PAD_SAVE_SETNULLPAD[]
PAD_SETSV[]
PAD_SET_CUR_NOSAVE[]
PAD_SET_CUR[]
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PAD_SV[]
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PERL_PV_ESCAPE_NOCLEAR|5.009004|p
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PERL_PV_PRETTY_DUMP|5.009004|p
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PERL_PV_PRETTY_NOCLEAR|5.010000|p
PERL_PV_PRETTY_QUOTE|5.009004|p
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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][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};

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if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $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 = $1 if m{^\s*$rccs\s+Replace:\s+(\d+)\s+$rcce\s*$};
$replace{$2} = $1 if $replace and m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+)};
$replace{$2} = $1 if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+).*$rccs\s+Replace\s+$rcce};
$replace{$1} = $2 if m{^\s*$rccs\s+Replace (\w+) with (\w+)\s+$rcce\s*$};
if (m{^\s*$rccs\s+(\w+(\s*,\s*\w+)*)\s+depends\s+on\s+(\w+(\s*,\s*\w+)*)\s+$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) {

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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 "\nHints\: $hints{$f}\" if exists $hints{$f};
      print "\nWarnings\: $warnings{$f}\" if exists $warnings{$f};
      $info++;
    }
    print "\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 $flags = @flags ? '[join\', ', @flags].\".\n" : "";
    print "$f$flags\n";
  }
  exit 0;
}
my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;
if (@ARGV) {
my %seen;
for (@ARGV) {
if (-e) {
if (-f) {
push @files, $_ unless $seen{$_}++;
}
else { warn "'$_' is not a file.\n" }
}
else {
my @new = grep { -f } glob $_
or warn "'$_' does not exist.\n";
push @files, grep { !$seen{$_}++ } @new;
}
}
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;

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my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;
my $func;
for $func (keys %API) {
my $match = $func;
$match .= "|$revreplace{$func}" if exists $revreplace{$func};
if ($c =~ /\b(?:Perl_)?($match)\b/) {
$file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
$file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
if (exists $API{$func}{provided}) {
$file{uses_provided}{$func}++;
if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
$file{uses}{$func}++;

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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}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {

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

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

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

    for $func (sort keys %{$file{uses_Perl}}) {
        if ($API{$func}{varargs}) {
            unless ($API{$func}{nothxarg}) {
                my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_\?)(\(|\[\]^\s*\))\s*\1\s*\2\s*\3\s*\4\s*\5\s*\6\s*\7}}{ $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*\1\s*\2\s*\3\s*\4\s*\5\s*\6\s*\7}}{$func$1(}g);
            }
        } else {
            warning("Uses Perl_$func instead of $func");
            $file{changes} += ($c =~ s{\bPerl_$func\(\s*\)\s*\1\s*\2\s*\3\s*\4\s*\5\s*\6\s*\7}}{$func$1(}g);
        }
    }

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

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

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

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

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

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

if ($file{needs_inc_ppport}) { my $pp = ";
for $func (sort keys %{$file{needs}}) {
my $type = $file{needs}{$func};
next if $type eq 'extern';
my $suffix = $type eq 'global' ? '_GLOBAL' : '';
unless (exists $file{"needed_$type"}{$func}) {
if ($type eq 'global') {
diag("Files [@{$global{needs}{$func}}] need $func, adding global request");
}
else {
diag("File needs $func, adding static request");
}
$pp .= "#define NEED_$func$suffix\n";
}
}
if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
$pp = '';
$file{changes}++;
}
unless ($file{has_inc_ppport}) {
diag("Needs to include '$ppport'");
$pp .= qq(#include "$ppport"\n)
}
if ($pp) {
$file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*?)^/$1$pp/ms)
|| ($c =~ s/^(?=$HS*#$HS*include.*\Q$ppport\E)/$pp/m)
|| ($c =~ s/^($HS*#$HS*include.*XSUB.*\s*?)^/$1$pp/m)
|| ($c =~ s/^/$pp/);
}
}
else {
if ($file{has_inc_ppport}) {
diag("No need to include '$ppport'");
$file{changes} += ($c =~ s/^$HS*?#$HS*include.*\Q$ppport\E.*?$LF//m);
}
}
# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
$cppc++;
$file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
}

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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
HEA
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+/) { return ($1, $2, $3); }
elseif ($ver !~ /\d+\.[_/]+$/) {
    die "cannot parse version $ver\n";
}

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

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

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

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

sub format_version
{
my $ver = shift;

$ver =~ s/$/000000/;
my($r,$v,$s) = $ver =~ /\d+/;($3);
$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", $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+\$/\$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*^(.*?)\s*\=/ms;
$copy =~ s/^(?=\S+)/    /gms;
$self =~ s/$HS+Do NOT edit.*?(?=^-)/$copy/ms;
$self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if ($@ and die "Cannot require Devel::PPPort, please install.\n")
    eval { require Devel::PPPort };\n$S@ 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:
END
/ms;
my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
$c = ~ s{
 / (?::\^[^*]*\*+[^$ccs][^*]*\*+/ | [^\r\n]+) 
 | ("[^"\n]*") 
 | (\w+) }{ defined $2 ? '' : ($1 || '') }gsex;
$c =~ s!\s+$!!mg;
$c =~ s!^$LF!!mg;
$c =~ s!^\s*#!#!mg;
$c =~ s!^\s+!!mg;
open OUT, ">$0" or die "cannot strip $0: $!"
print OUT "$pl$c
";
exit 0;
}

__DATA__
*/

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

Found in path(s):
* /opt/cola/permits/1139282497_1614508072.77/0/perl-DB_File-1.842-1.el8-1.src.rpm-cosi-expand-archive-OHUIHvY5/DB_File-1.842.tar.gz-cosi-expand-archive-uwdDKKRe/DB_File-1.842/ppport.h
No license file was found, but licenses were detected in source scan.

# Copyright (c) 1998-2012 Paul Marquess. 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):
* /opt/cola/permits/1139282497_1614508072.77/0/perl-DB_File-1.842-1.el8-1.src.rpm-cosi-expand-archive-OHUIHvY5/DB_File-1.842.tar.gz-cosi-expand-archive-uwdDKKRe/DB_File-1.842/dbinfo
No license file was found, but licenses were detected in source scan.

/*

DB_File.xs -- Perl 5 interface to Berkeley DB

Written by Paul Marquess <pmqs@cpan.org>

All comments/suggestions/problems are welcome

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modify it under the same terms as Perl itself.

Changes:
0.1 - Initial Release
0.2 - No longer bombs out if dbopen returns an error.
0.3 - Added some support for multiple btree compares
1.0 - Complete support for multiple callbacks added.
        Fixed a problem with pushing a value onto an empty list.
1.01 - Fixed a SunOS core dump problem.
The return value from TIEHASH wasn't set to NULL when
dbopen returned an error.
1.02 - Use ALIAS to define TIEARRAY.
        Removed some redundant commented code.
Merged OS2 code into the main distribution.
Allow negative subscripts with RECNO interface.
Changed the default flags to O_CREAT|O_RDWR
1.03 - Added EXISTS
1.04 - fixed a couple of bugs in hash_cb. Patches supplied by
        Dave Hammen, hammen@gothamcity.jsc.nasa.gov
1.05 - Added logic to allow prefix & hash types to be specified via
        Makefile.PL
1.06 - Minor namespace cleanup: Localized PrintBtree.
1.07 - Fixed bug with RECNO, where bval wasn't defaulting to "n".
1.08 - No change to DB_File.xs
1.09 - Default mode for dbopen changed to 0666
1.10 - Fixed fd method so that it still returns -1 for
        in-memory files when db 1.86 is used.
1.11 - No change to DB_File.xs
1.12 - No change to DB_File.xs
1.13 - Tidied up a few casts.
1.14 - Made it illegal to tie an associative array to a RECNO
        database and an ordinary array to a HASH or BTREE database.
1.50 - Make work with both DB 1.x or DB 2.x
1.51 - Fixed a bug in mapping 1.x O_RDONLY flag to 2.x DB_RDONLY equivalent
1.52 - Patch from Gisle Aas <gisle@aas.no> to suppress "use of
        undefined value" warning with db_get and db_seq.
1.53 - Added DB_RENUMBER to flags for recno.
1.54 - Fixed bug in the fd method
        1.55 - Fix for AIX from Jarkko Hietaniemi
        1.56 - No change to DB_File.xs
        1.57 - added the #undef op to allow building with Threads support.
1.58 - Fixed a problem with the use of sv_setpvn. When the
        size is specified as 0, it does a strlen on the data.
This was ok for DB 1.x, but isn't for DB 2.x.
        1.59 - No change to DB_File.xs
        1.60 - Some code tidy up
        1.61 - added flagSet macro for DB 2.5.x
fixed typo in O_RDONLY test.
1.62 - No change to DB_File.xs
1.63 - Fix to allow DB 2.6.x to build.
1.64 - Tidied up the 1.x to 2.x flags mapping code.

Added a patch from Mark Kettenis <kettenis@wins.uva.nl>

1.65 - Fixed a bug in the PUSH logic.
1.66 - Added DBM filter code
1.67 - Backed off the use of newSVpvn.

Added a small memory leak in the filter code.

1.68 - Fixed a bug in push -- DB_APPEND wasn't working properly.

1.69 - Fixed the R_SET_CURSOR bug introduced in 1.68

1.70 - Initialise $DB_File::db_ver

1.71 - Support for Berkeley DB version 3.

Support for Berkeley DB 2/3's backward compatibility mode.

Rewrote push

1.72 - No change to DB_File.xs
1.73 - No change to DB_File.xs
1.74 - A call to open needed parenthesised to stop it clashing
      with a win32 macro.

Added Perl core patches 7703 & 7801.

1.75 - Fixed Perl core patch 7703.

Added support to allow DB_File to be built with

Berkeley DB 3.2 -- btree_compare, btree_prefix and hash_cb

need to be changed.

1.76 - No change to DB_File.xs
1.77 - Tidied up a few types used in calling newSVpvn.
1.78 - Core patch 10335, 10372, 10534, 10549, 11051 included.
1.79 - NEXTKEY ignores the input key.
      Added lots of casts

1.800 - Moved backward compatibility code into ppport.h.

Use the new constants code.

1.801 - No change to DB_File.xs
1.802 - No change to DB_File.xs

1.803 - FETCH, STORE & DELETE don't map the flags parameter
      into the equivalent Berkeley DB function anymore.

1.804 - no change.

1.805 - recursion detection added to the callbacks
      Support for 4.1.X added.
      Filter code can now cope with read-only $_

1.806 - recursion detection beefed up.
1.807 - no change
1.808 - leak fixed in ParseOpenInfo
1.809 - no change
1.810 - no change
1.811 - no change
1.812 - no change
1.813 - no change
1.814 - no change
1.814 - C++ casting fixes

*/

#define PERL_NO_GET_CONTEXT
#include "EXTERN.h"
#include "perl.h"
#include "XSUB.h"

#ifdef _NOT_CORE
# include "ppport.h"
#endif

int DB_File___unused() { return 0; }

/* Mention DB_VERSION_MAJOR_CFG, DB_VERSION_MINOR_CFG, and
   DB_VERSION_PATCH_CFG here so that Configure pulls them all in. */

/* Being the Berkeley DB we prefer the <sys/cdefs.h> (which will be
 * shortly #included by the <db.h>) __attribute__ to the possibly
 * already defined __attribute__, for example by GNUC or by Perl. */

/* #if DB_VERSION_MAJOR_CFG < 2 */
#undef DB_VERSION_MAJOR
# define ___attribute__
#endif

#ifndef COMPAT185
# include <db_185.h>
#else

/* Uncomment one of the lines below */
/* See the section "At least one secondary cursor must be specified to DB->join"
 in the README file for the circumstances where you need to uncomment one
 of the two lines below. */

/* #define time_t __time64_t */
/* #define time_t __time32_t */
#    include <db.h>
#endif

#ifndef PERL_UNUSED_ARG
#define PERL_UNUSED_ARG(x) ((void)x)
#endif

/* Wall starts with 5.7.x */

#if PERL_REVISION > 5 || (PERL_REVISION == 5 && PERL_VERSION >= 7)
/* Since we dropped the gccish definition of __attribute__ we will want
* to redefine dNOOP, however (so that dTHX continues to work). Yes,
* all this means that we can't do attribute checking on the DB_File,
* boo, hiss. */
#endif /* Perl >= 5.7 */

#include <fcntl.h>
/* #define TRACE */
#ifdef TRACE
#define Trace(x) printf x
#else
#define Trace(x)
#endif

/* avoid -Wall; DB_File xsubs never make use of `ix' setup for ALIASes */
#ifndef dXSI32
#define dXSI32 dNOOP
#endif /* Perl >= 5.7 */
#define DBT_clear(x) Zero(&x, 1, DBT);

#ifndef DB_VERSION_MAJOR

#if DB_VERSION_MAJOR == 2
    #define BERKELEY_DB_1_OR_2
#endif

#if DB_VERSION_MAJOR > 3 || (DB_VERSION_MAJOR == 3 && DB_VERSION_MINOR >= 2)
    #define AT_LEAST_DB_3_2
#endif

#if DB_VERSION_MAJOR > 3 || (DB_VERSION_MAJOR == 3 && DB_VERSION_MINOR >= 3)
    #define AT_LEAST_DB_3_3
#endif

#if DB_VERSION_MAJOR > 4 || (DB_VERSION_MAJOR == 4 && DB_VERSION_MINOR >= 1)
    #define AT_LEAST_DB_4_1
#endif

#if DB_VERSION_MAJOR > 4 || (DB_VERSION_MAJOR == 4 && DB_VERSION_MINOR >= 3)
    #define AT_LEAST_DB_4_3
#endif

#if DB_VERSION_MAJOR >= 6
    #define AT_LEAST_DB_6_0
#endif

#ifndef AT_LEAST_DB_3_3
    #define WANT_ERROR
#endif

/* map version 2 features & constants onto their version 1 equivalent */

#ifndef DB_Prefix_t
    #define DB_Prefix_t size_t
#endif

#ifndef DB_Hash_t
    #define DB_Hash_t u_int32_t
#endif

/* DBTYPE stays the same */
/* HASHINFO, RECNOINFO and BTREEINFO map to DB_INFO */
#if DB_VERSION_MAJOR == 2
    typedef DB_INFO	INFO ;
#else /* DB_VERSION_MAJOR > 2 */
    # define DB_FIXEDLEN(0x8000)
    #endif /* DB_VERSION_MAJOR == 2 */

/* version 2 has db_recno_t in place of recno_t*/
typedef db_recno_t	recno_t ;

#define R_CURSOR	DB_SET_RANGE
#define R_FIRST	DB_FIRST
#define R_IAFTER	DB_AFTER
#define R_IBEFORE	DB_BEFORE
#define R_LAST	DB_LAST
#define R_NEXT	DB_NEXT
#define R_NOOVERWRITE	DB_NOOVERWRITE
#define R_PREV	DB_PREV

#if DB_VERSION_MAJOR == 2 && DB_VERSION_MINOR < 5
    # define R_SETCURSOR0x800000
#else
    # define R_SETCURSOR(DB_OPCODE_MASK)
#endif

#define R_RECNOSYNC	0
#define R_FIXEDLENDB_FIXEDLEN
#define R_DUPEDB_DUP

#define db_HA_hash h_hash
#define db_HA_ffactorh_ffactor
#define db_HA_nelemh_nelem
#define db_HA_brsizebdb_pagesize
#define db_HA_cachesizbdb_cachesize
#define db_HA_lorderdb_lorder

#define db_BT_comparebt_compare
#define db_BT_prefixbt_prefix
#define db_BT_PREFIXFLAGSflags
#define db_BT_prefixdb_pagesize
#define db_BT_cachesizbdb_cachesize
#define db_BT_lorderdb_lorder
#define db_BT_maxkeypagedb_maxkeypage
#define db_BT_minkeypagedb_minkeypage

#define db_RE_reclenre_len
```c
#define db_RE_flags
#define db_RE_bvalre_pad
#define db_RE_bfnamere_source
#define db_RE_psize db_pagesize
#define db_RE_cachesize db_cachesize
#define db_RE_lorder db_lorder

#define TXNNULL,

#define do_SEQ(db, key, value, flag) ((db->cursor->c_get)(db->cursor, &key, &value, flag))

#define DBT_flags(x) x.flags = 0
#define DB_flags(x, v) x |= v

#if DB_VERSION_MAJOR == 2 && DB_VERSION_MINOR < 5
    # define flagSet(flags, bitmask) ((flags) & (bitmask))
#else
    # define flagSet(flags, bitmask) (((flags) & DB_OPFLAGS_MASK) == (u_int)(bitmask))
#endif

#else /* db version 1.x */

#define BERKELEY_DB_1
#define BERKELEY_DB_1_OR_2

typedef union INFO {
    HASHINFO hash ;
    RECNOINFO recno ;
    BTREEINFO btree ;
} INFO ;

#endif

#ifdef mDB_Prefix_t
    # ifdef DB_Prefix_t
    #    undef DB_Prefix_t
    #    define DB_Prefix_t mDB_Prefix_t
    #endif
    #ifdef mDB_Hash_t
    #    ifdef DB_Hash_t
    #        undef DB_Hash_t
    #        define DB_Hash_t mDB_Hash_t
    #    endif
    #endif
#endif

#define db_HA_hash hash.hash
```
#define db_HA_ffactor hash.ffactor
#define db_HA_nelem hash.nelem
#define db_HA_bsize hash.bsize
#define db_HA_cachesize hash.cachesize
#define db_HA_lorder hash.lorder

#define db_BT_compare btree.compare
#define db_BT_prefix btree.prefix
#define db_BT_flags btree.flags
#define db_BT_psize btree.psize
#define db_BT_cachesize btree.cachesize
#define db_BT_lorder btree.lorder
#define db_BT_maxkeypage btree.maxkeypage
#define db_BT_minkeypage btree.minkeypage

#define db_RE_reclen recno.reclen
#define db_RE_flags recno.flags
#define db_RE_bval recno.bval
#define db_RE_bfname recno.bfname
#define db_RE_psize recno.psize
#define db_RE_cachesize recno.cachesize
#define db_RE_lorder recno.lorder

#define TXN

#define do_SEQ(db, key, value, flag) ((db->dbp)->seq)(db->dbp, &key, &value, flag)
#define DBT_flags(x)
#define DB_flags(x, v)
#define flagSet(flags, bitmask) (((flags) & (bitmask))

#endif /* db version 1 */

#define db_DELETE(db, key, flags) ((db->dbp)->del)(db->dbp, TXN &key, 0)
#define db_STORE(db, key, value, flags) ((db->dbp)->put)(db->dbp, TXN &key, &value, 0)
#define db_FETCH(db, key, flags) ((db->dbp)->get)(db->dbp, TXN &key, &value, 0)
#define db_sync(db, flags) ((db->dbp)->sync)(db->dbp, flags)
#define db_get(db, key, value, flags) ((db->dbp)->get)(db->dbp, TXN &key, &value, flags)

#if DB_VERSION_MAJOR
#define db_DESTROY(db) (!db->aborted && (db->cursor->c_close(db->cursor),
 (db->dbp->close)(db->dbp, 0))
#define db_close(db) ((db->dbp)->close)(db->dbp, 0)
#define db_del(db, key, flags) flagSet(flags, R_CURSOR)
    ? ((db->cursor)->c_del)(db->cursor, 0)
    : ((db->dbp)->del)(db->dbp, NULL, &key, flags) )

#else /* ! DB_VERSION_MAJOR */

#define db_DESTROY(db)                  (!db->aborted && ((db->dbp)->close)(db->dbp))  
#define db_close(db)			((db->dbp)->close)(db->dbp)  
#define db_del(db, key, flags)          ((db->dbp)->del)(db->dbp, &key, flags)  
#define db_put(db, key, value, flags)   ((db->dbp)->put)(db->dbp, &key, &value, flags)  

#define db_seq(db, key, value, flags)   do_SEQ(db, key, value, flags)  

typedef struct {  
    DBTYPE type;  
    DB * dbp;  
    SV *compare;  
    bool in_compare;  
    SV *prefix;  
    boolin_prefix;  
    SV *hash;  
    boolin_hash;  
    boolaborted;  
    int in_memory;  
    #ifdef BERKELEY_DB_1_OR_2  
    INFO info;  
    #endif  
    #ifdef DB_VERSION_MAJOR  
    DBC *cursor;  
    #endif  
    SV * filter_fetch_key;  
    SV * filter_store_key;  
    SV * filter_fetch_value;  
    SV * filter_store_value;  
    int filtering;  
} DB_File_type;  

typedef DB_File_type * DB_File;  
typedef DBT DBTKEY;  

#define my_sv_setpvn(sv, d, s) sv_setpvn(sv, (s ? d : (const char *)""), s)  

#define OutputValue(arg, name)  					
{ if (RETVAL == 0) { 
    SvGETMAGIC(arg); 
    my_sv_setpvn(arg, (const char *)name.data, name.size) 
}
SvTAINTED_on(arg);
SvUTF8_off(arg);
DBM_ckFilter(arg, filter_fetch_value,"filter_fetch_value") ;
}\
}

#define OutputKey(arg, name)\
{ if (RETVAL == 0)\
\{\
SvGETMAGIC(arg) ; \}
if (db->type != DB_RECNO) {\
   my_sv_setpvn(arg, (const char *)name.data, name.size); \\
}
else \\sv_setiv(arg, (I32)*(I32*)name.data - 1);\
   TAINt; \\SvTAINTED_on(arg); \\
SvUTF8_off(arg); \\
   DBM_ckFilter(arg, filter_fetch_key,"filter_fetch_key") ;\
}\
}

#define my_SvUV32(sv) ((u_int32_t)SvUV(sv))

#ifdef CAN_PROTOTYPE
extern void __getBerkeleyDBInfo(void);
#endif

/* Internal Global Data */

#define MY_CXT_KEY "DB_File::_guts" XS_VERSION

typedef struct {
   recno_t x_Value;
   recno_t x_zero;
   DB_File x_CurrentDB;
   DBTKEY x_empty;
} my_cxt_t;

START_MY_CXT

#define Value(MY_CXT.x_Value)
#define zero(MY_CXT.x_zero)
#define CurrentDB(MY_CXT.x_CurrentDB)
#define empty(MY_CXT.x_empty)

#define ERR_BUFF "DB_File::Error"
#ifdef DB_VERSION_MAJOR

static int
#ifdef CAN_PROTOTYPE
    db_put(DB_File db, DBTKEY key, DBT value, u_int flags)
#else
    db_put(db, key, value, flags)
#endif
{
    DBTKEY key;
    DBT value;
    u_int flags;
    int status;

    if (flagSet(flags, R_IAFTER) || flagSet(flags, R_IBEFORE)) {
        DBC * temp_cursor;
        DBT l_key, l_value;

        #if DB_VERSION_MAJOR == 2 && DB_VERSION_MINOR < 6
            if (((db->dbp)->cursor)(db->dbp, NULL, &temp_cursor) != 0)
        #else
            if (((db->dbp)->cursor)(db->dbp, NULL, &temp_cursor, 0) != 0)
        #endif
            return (-1);

        memset(&l_key, 0, sizeof(l_key));
        l_key.data = key.data;
        l_key.size = key.size;
        memset(&l_value, 0, sizeof(l_value));
        l_value.data = value.data;
        l_value.size = value.size;

        if (temp_cursor->c_get(temp_cursor, &l_key, &l_value, DB_SET) != 0) {
            (void)temp_cursor->c_close(temp_cursor);
            return (-1);
        }

        status = temp_cursor->c_put(temp_cursor, &key, &value, flags);
        (void)temp_cursor->c_close(temp_cursor);
        return (status);
    }

    if (flagSet(flags, R_CURSOR)) {
        return ((db->cursor)->c_put)(db->cursor, &key, &value, DB_CURRENT);
    }
}

if (flagSet(flags, R_CURSOR)) { return ((db->cursor)->c_put)(db->cursor, &key, &value, DB_CURRENT); }
if (flagSet(flags, R_SETCURSOR)) {
if (((db->dbp)->put(db->dbp, NULL, &key, &value, 0) != 0)
return -1 ;
    return (((db->cursor)->c_get)(db->cursor, &key, &value, DB_SET_RANGE));
}
return ((db->dbp)->put)(db->dbp, NULL, &key, &value, flags) ;
}
#endif /* DB_VERSION_MAJOR */
static void
tidyUp(DB_File db)
{
    db->aborted = TRUE ;
}

static int
#ifdef AT_LEAST_DB_6_0
    #ifdef CAN_PROTOTYPE
btree_compare(DB * db, const DBT *key1, const DBT *key2, size_t* locp)
#else
btree_compare(db, key1, key2, locp)
#endif /* CAN_PROTOTYPE */
#else /* Berkeley DB < 6.0 */
    #ifdef AT_LEAST_DB_3_2
    #ifdef CAN_PROTOTYPE
btree_compare(DB * db, const DBT *key1, const DBT *key2)
#else
btree_compare(db, key1, key2)
#endif /* CAN_PROTOTYPE */
#else /* Berkeley DB < 3.2 */
#endif CAN_PROTOTYPE
btree_compare(const DBT *key1, const DBT *key2)
#endif
btree_compare(key1, key2)
const DBT * key1 ;
const DBT * key2 ;
#endif
#endif
#endif
{
#if defined dTHX
    dTHX;
#endif
    dSP ;
    dMY_CXT ;
    void * data1, * data2 ;
    int retval ;
    int count ;
#if defined AT_LEAST_DB_3_2
    PERL_UNUSED_ARG(db);
#endif
#if defined AT_LEAST_DB_6_0
    PERL_UNUSED_ARG(locp);
#endif
if (CurrentDB->in_compare) {
    tidyUp(CurrentDB);
    croak ("DB_File btree_compare: recursion detected\n") ;
}
data1 = (char *) key1->data ;
data2 = (char *) key2->data ;
#endif
newSVpvn
/* As newSVpv will assume that the data pointer is a null terminated C
   string if the size parameter is 0, make sure that data points to an
   empty string if the length is 0
*/
if (key1->size == 0)
    data1 = "" ;
if (key2->size == 0)
    data2 = "" ;
#endif
ENTER ;
SAVETMPS ;
SAVESPTR(CurrentDB);
CurrentDB->in_compare = FALSE;
SAVEINT(CurrentDB->in_compare);
CurrentDB->in_compare = TRUE;

PUSHMARK(SP) ;
EXTEND(SP,2) ;
PUSHs(sv_2mortal(newSVpvn((const char*)data1,key1->size)));
PUSHs(sv_2mortal(newSVpvn((const char*)data2,key2->size)));
PUTBACK ;

count = perl_call_sv(CurrentDB->compare, G_SCALAR);

SPAGAIN ;

if (count != 1){
    tidyUp(CurrentDB);
    croak("DB_File btree_compare: expected 1 return value from compare sub, got %d\n", count) ;
}

retval = POPi ;

PUTBACK ;
FREETMPS ;
LEAVE ;

return (retval) ;

}

static DB_Prefix_t
#ifdef AT_LEAST_DB_3_2
#ifdef CAN_PROTOTYPE
btree_prefix(DB * db, const DBT *key1, const DBT *key2)
#else
btree_prefix(db, key1, key2)
#endif
#endif /* Berkeley DB < 3.2 */

#ifdef CAN_PROTOTYPE
btree_prefix(const DBT *key1, const DBT *key2)
#else
btree_prefix(key1, key2)
const DBT * key1;
const DBT * key2;
#endif
#endif
{
#ifdef dTHX
    dTHX;
#endif
dSP;
dMY_CXT;
char * data1, * data2;
int retval;
int count;
#ifdef AT_LEAST_DB_3_2
    PERL_UNUSED_ARG(db);
#endif
if (CurrentDB->in_prefix){
tidyUp(CurrentDB);
croak ("DB_File btree_prefix: recursion detected\n") ;
}
data1 = (char *) key1->data ;
data2 = (char *) key2->data ;
#endif
#ifndef newSVpvn
/* As newSVpv will assume that the data pointer is a null terminated C
   string if the size parameter is 0, make sure that data points to an
   empty string if the length is 0
*/
if (key1->size == 0)
data1 = "" ;
if (key2->size == 0)
data2 = "" ;
#endif
ENTER ;
SAVETMPS;
SAVESPTR(CurrentDB);
CurrentDB->in_prefix = FALSE;
SAVEINT(CurrentDB->in_prefix);
CurrentDB->in_prefix = TRUE;
PUSHMARK(SP) ;
EXTEND(SP,2) ;
PUSHs(sv_2mortal(newSVpvn(data1,key1->size)));
PUSHsv_2mortal(newSVpvn(data2, key2->size));
PUTBACK;

count = perl_call_sv(CurrentDB->prefix, G_SCALAR);

SPAGAIN;

if (count != 1){
tidyUp(CurrentDB);
croak("DB_File btree_prefix: expected 1 return value from prefix sub, got %d\n", count);
}

retval = POPi;

PUTBACK;
FREETMPS;
LEAVE;

return (retval);
}

#endif BERKELEY_DB_1
#define HASH_CB_SIZE_TYPE size_t
#else
#define HASH_CB_SIZE_TYPE u_int32_t
#endif

static DB_Hash_t
#ifdef AT_LEAST_DB_3_2
#ifdef CAN_PROTOTYPE
hash_cb(DB * db, const void *data, u_int32_t size)
#else
hash_cb(db, data, size)

DB * db;
const void * data;
HASH_CB_SIZE_TYPE size;
#endif

#else /* Berkeley DB < 3.2 */

#ifdef CAN_PROTOTYPE
hash_cb(const void *data, HASH_CB_SIZE_TYPE size)
#else
hash_cb(data, size)

const void * data;
HASH_CB_SIZE_TYPE size;

}
ifdef dTHX
  dTHX;
#endif
dSP ;
dMY_CXT;
int retval = 0;
int count ;

ifdef AT_LEAST_DB_3_2
  PERL_UNUSED_ARG(db);
#endif

if (CurrentDB->in_hash){
tidyUp(CurrentDB);
croak ("DB_File hash callback: recursion detected\n") ;
}

ifndef newSVpvn
  if (size == 0)
    data = "" ;
#endif

/* DGH - Next two lines added to fix corrupted stack problem */
ENTER ;
SAVETMPS;
SAVESPTR(CurrentDB);
CurrentDB->in_hash = FALSE;
SAVEINT(CurrentDB->in_hash);
CurrentDB->in_hash = TRUE;
PUSHMARK(SP) ;

XPUSHs(sv_2mortal(newSVpvn((char*)data,size)));
PUTBACK ;

  count = perl_call_sv(CurrentDB->hash, G_SCALAR);
  SPAGAIN ;
  if (count != 1){
    tidyUp(CurrentDB);
    croak ("DB_File hash_cb: expected 1 return value from hash sub, got %d\n", count) ;
  }
retval = POPi ;

PUTBACK ;
FREETMPS ;
LEAVE ;

return (retval) ;
}

#ifdef WANT_ERROR

static void
#ifdef AT_LEAST_DB_4_3
db_errcall_cb(const DB_ENV* dbenv, const char * db_errpfx, const char * buffer)
#else
db_errcall_cb(const char * db_errpfx, char * buffer)
#endif
#endif
{
#ifdef dTHX
    dTHX;
#endif
    SV * sv = perl_get_sv(ERR_BUFF, FALSE) ;
#ifdef AT_LEAST_DB_4_3
    PERLUNUSED_ARG(dbenv);
#endif
    if (sv) {
        if (db_errpfx)
            sv_setpvf(sv, "%s: %s", db_errpfx, buffer) ;
        else
            sv_setpv(sv, buffer) ;
    }
}
#endif

#if defined(TRACE) && defined(BERKELEY_DB_1_OR_2)

static void
#ifdef CAN_PROTOTYPE
PrintHash(INFO *hash)
#else
PrintHash(hash)
INFO * hash ;
#endif
{
    printf ("HASH Info\n") ;
    printf (" hash = 
(hash->db_HA_hash != NULL ? "redefined" : "default")) ;
static void
#ifdef CAN_PROTOTYPE
PrintRecno(INFO *recno)
#else
PrintRecno(recno)
#endif
INFO * recno ;
#endif
{
 printf ("RECNO Info\n") ;
 printf (" flags = %d\n", recno->db_RE_flags) ;
 printf (" cachesize = %d\n", recno->db_RE_cachesize) ;
 printf (" psize = %d\n", recno->db_RE_psize) ;
 printf (" lorder = %d\n", recno->db_RE_lorder) ;
 printf (" reclen = %lu\n", (unsigned long)recno->db_RE_reclen) ;
 printf (" bval = %d 0x%x\n", recno->db_RE_bval, recno->db_RE_bval) ;
 printf (" bfname = %d [%s]\n", recno->db_RE_bfname, recno->db_RE_bfname) ;
}

static void
#ifdef CAN_PROTOTYPE
PrintBtree(INFO *btree)
#else
PrintBtree(btree)
#endif
INFO * btree ;
#endif
{
 printf ("BTREE Info\n") ;
 printf (" compare = %s\n", (btree->db_BT_compare ? "redefined" : "default")) ;
 printf (" prefix = %s\n", (btree->db_BT_prefix ? "redefined" : "default")) ;
 printf (" flags = %d\n", btree->db_BT_flags) ;
 printf (" cachesize = %d\n", btree->db_BT_cachesize) ;
 printf (" psize = %d\n", btree->db_BT_psize) ;
#ifndef DB_VERSION_MAJOR
 printf (" maxkeypage = %d\n", btree->db_BT_maxkeypage) ;
 printf (" minkeypage = %d\n", btree->db_BT_minkeypage) ;
#endif
 printf (" lorder = %d\n", btree->db_BT_lorder) ;
}
#else

#define PrintRecno(recno)
#define PrintHash(hash)
#define PrintBtree(btree)

#else /* TRACE */

static I32 #ifdef CAN_PROTOTYPE
GetArrayLength(pTHX_ DB_File db)
#else
GetArrayLength(db)
DB_File db ;
#endif
{
    DBT key ;
    DBT value ;
    int RETVAL ;

    DBT_clear(key) ;
    DBT_clear(value) ;
    RETVAL = do_SEQ(db, key, value, R_LAST) ;
    if (RETVAL == 0)
        RETVAL = *(I32 *)key.data ;
    else /* No key means empty file */
        RETVAL = 0 ;

    return ((I32)RETVAL) ;
}

static recno_t #ifdef CAN_PROTOTYPE
GetRecnoKey(pTHX_ DB_File db, I32 value)
#else
GetRecnoKey(db, value)
DB_File db ;
I32 value ;
#endif
{
    if (value < 0) {
        /* Get the length of the array */
        I32 length = GetArrayLength(aTHX_ db) ;

        /* check for attempt to write before start of array */
        if (length + value + 1 <= 0) 
            /* have overflowed */

/* ... */
tidyUp(db);
croak("Modification of non-creatable array value attempted, subscript %ld", (long)value);
}

value = length + value + 1;
}
else
  ++ value;

return value;
}

static DB_File
#ifdef CAN_PROTOTYPE
ParseOpenInfo(pTHX_ int isHASH, char *name, int flags, int mode, SV *sv)
#else
ParseOpenInfo(isHASH, name, flags, mode, sv)
#endif
int    isHASH;
char * name;
int    flags;
int    mode;
SV *   sv;
#endif
{

#ifdef BERKELEY_DB_1_OR_2 /* Berkeley DB Version 1 or 2 */

SV **svp;
HV *action;
DB_File RETVAL = (DB_File)safemalloc(sizeof(DB_File_type));
void *openinfo = NULL;
INFO* info = &RETVAL->info;
STRLEN n_a;
dMY_CXT;
#endif

#ifdef TRACE
printf("In ParseOpenInfo name=[%s] flags=[%d] mode=[%d] SV NULL=[%d]n", name, flags, mode, sv == NULL);
#endif
Zero(RETVAL, 1, DB_File_type);

/* Default to HASH */
RETVAL->filtering = 0;
RETVAL->filter_fetch_key = RETVAL->filter_store_key =
RETVAL->filter_fetch_value = RETVAL->filter_store_value =
RETVAL->hash = RETVAL->compare = RETVAL->prefix = NULL;
RETVAL->type = DB_HASH;
/* DGH - Next line added to avoid SEGV on existing hash DB */
CurrentDB = RETVAL;

/* fd for 1.86 hash in memory files doesn't return -1 like 1.85 */
RETVAL->in_memory = (name == NULL);

if (sv)
{
    if (!SvROK(sv))
        croak("type parameter is not a reference");

   svp = hv_fetch(HV*SvRV(sv), "GOT", 3, FALSE);
    if (svp && SvOK(*svp))
        action = (HV*)SvRV(*svp);
    else
        croak("internal error");

    if (sv_isa(sv, "DB_File::HASHINFO"))
    {
    
    if (!isHASH)
        croak("DB_File can only tie an associative array to a DB_HASH database");

        RETVAL->type = DB_HASH;
        openinfo = (void*)info;

       svp = hv_fetch(action, "hash", 4, FALSE);

        if (svp && SvOK(*svp))
        {
            info->db_HA_hash = hash_cb;
            RETVAL->hash = newSVsv(*svp);
        }
        else
            info->db_HA_hash = NULL;

       svp = hv_fetch(action, "ffactor", 7, FALSE);
        info->db_HA_ffactor = svp ? SvIV(*svp) : 0;

       svp = hv_fetch(action, "nelem", 5, FALSE);
        info->db_HA_nelem = svp ? SvIV(*svp) : 0;

       svp = hv_fetch(action, "bsize", 5, FALSE);
        info->db_HA_bsize = svp ? SvIV(*svp) : 0;

       svp = hv_fetch(action, "cachesize", 9, FALSE);
        info->db_HA_cachesize = svp ? SvIV(*svp) : 0;
svp = hv_fetch(action, "lorder", 6, FALSE);
info->db_HA_lorder = svp ? SvIV(*svp) : 0;

PrintHash(info);
}
else if (sv_isa(sv, "DB_File::BTREEINFO"))
{
    if (!isHASH)
croak("DB_File can only tie an associative array to a DB_BTREE database");

    RETVAL->type = DB_BTREE;
    openinfo = (void*)info;

   svp = hv_fetch(action, "compare", 7, FALSE);
    if (svp && SvOK(*svp))
    {
        info->db_BT_compare = btree_compare;
    RETVAL->compare = newSVsv(*svp);
    }
    else
    info->db_BT_compare = NULL;

   svp = hv_fetch(action, "prefix", 6, FALSE);
    if (svp && SvOK(*svp))
    {
        info->db_BT_prefix = btree_prefix;
    RETVAL->prefix = newSVsv(*svp);
    }
    else
    info->db_BT_prefix = NULL;

   svp = hv_fetch(action, "flags", 5, FALSE);
info->db_BT_flags = svp ? SvIV(*svp) : 0;

   svp = hv_fetch(action, "cachesize", 9, FALSE);
info->db_BT_cachesize = svp ? SvIV(*svp) : 0;

#ifndef DB_VERSION_MAJOR
    ssv = hv_fetch(action, "minkeypage", 10, FALSE);
info->btree.minkeypage = svp ? SvIV(*svp) : 0;

    ssv = hv_fetch(action, "maxkeypage", 10, FALSE);
info->btree.maxkeypage = svp ? SvIV(*svp) : 0;
#endif

    ssv = hv_fetch(action, "psize", 5, FALSE);
info->db_BT_psize = svp ? SvIV(*svp) : 0;
svp = hv_fetch(action, "lorder", 6, FALSE);
info->db_BT_lorder =svp ? SvIV(*svp) : 0;

PrintBtree(info);
}
else if (sv_isa(sv, "DB_File::RECNOINFO"))
{
if (isHASH)
croak("DB_File can only tie an array to a DB_RECNO database");

REVAL->type = DB_RECNO;
onopeninfo = (void *)info;

info->db_RE_flags = 0;

svp = hv_fetch(action,"flags", 5, FALSE);  
info->db_RE_flags = (u_long) (svp ? SvIV(*svp) : 0);

svp = hv_fetch(action,"reclen", 6, FALSE);  
info->db_RE_reclen = (size_t) (svp ? SvIV(*svp) : 0);

svp = hv_fetch(action, "cachesize", 9, FALSE);  
info->db_RE_cachesize = (u_int) (svp ? SvIV(*svp) : 0);

svp = hv_fetch(action,"psize", 5, FALSE);  
info->db_RE_psize = (u_int) (svp ? SvIV(*svp) : 0);

svp = hv_fetch(action,"lorder", 6, FALSE);  
info->db_RE_lorder = (int) (svp ? SvIV(*svp) : 0);

#ifdef DB_VERSION_MAJOR
info->re_source = name;
name = NULL;
#endif

if (svp && SvOK(*svp))
{
char * ptr =SvPV(*svp,n_a);
#ifdef DB_VERSION_MAJOR
name = (char*) n_a ? ptr : NULL;
#else
info->db_RE_bfname = (char*) (n_a ? ptr : NULL);
#endif
}
else
#ifdef DB_VERSION_MAJOR
name = NULL;
#endif
# else
    info->db_RE_bfname = NULL;
# endif

svp = hv_fetch(action, "bval", 4, FALSE);
#ifdef DB_VERSION_MAJOR
    if (svp && SvOK(*svp))
        {
            int value;
            if (SvPOK(*svp))
                value = (int)*SvPV(*svp, n_a);
            else
                value = SvIV(*svp);

            if (info->flags & DB_FIXEDLEN)
                info->re_pad = value;
            else
                info->re_delim = value;
        }
#else
    if (svp && SvOK(*svp))
        {
            if (SvPOK(*svp))
                info->db_RE_bval = (u_char)*SvPV(*svp, n_a);
            else
                info->db_RE_bval = (u_char)(unsigned long)SvIV(*svp);

            DB_flags(info->flags, DB_DELIMITER);
        } else {
            if (info->db_RE_flags & R_FIXEDLEN)
                info->db_RE_bval = (u_char)'
            else
                info->db_RE_bval = (u_char)'
        }
#endif

#ifdef DB_RENUMBER
    info->flags |= DB_RENUMBER;
#endif
PrintRecno(info);
}
else
croak("type is not of type DB_File::HASHINFO, DB_File::BTREEINFO or DB_File::RECNINFO");
}

/* OS2 Specific Code */
#endif OS2
#ifndef __EMX__
flags |= O_BINARY;
#endif /* __EMX__ */
#endif /* OS2 */

#ifndef DB_VERSION_MINOR
{
int Flags = 0;
int status;

/* Map 1.x flags to 2.x flags */
if ((flags & O_CREAT) == O_CREAT)
  Flags |= DB_CREATE;
#if O_RDONLY == 0
if (flags == O_RDONLY)
#else
if ((flags & O_RDONLY) == O_RDONLY && (flags & O_RDWR) != O_RDWR)
#endif
  Flags |= DB_RDONLY;
#if O_TRUNC
if ((flags & O_TRUNC) == O_TRUNC)
  Flags |= DB_TRUNCATE;
#endif
status = db_open(name, RETVAL->type, Flags, mode, NULL, (DB_INFO*)openinfo, &RETVAL->dbp);  
if (status == 0)
  #if DB_VERSION_MAJOR == 2 && DB_VERSION_MINOR < 6
  status = (RETVAL->dbp->cursor)(RETVAL->dbp, NULL, &RETVAL->cursor);
  #else
  status = (RETVAL->dbp->cursor)(RETVAL->dbp, NULL, &RETVAL->cursor, 0);
  #endif
  if (status)
    RETVAL->dbp = NULL;

  RETVAL->dbp != NULL;
#endif
#if defined(DB_LIBRARY_COMPATIBILITY_API) && DB_VERSION_MAJOR > 2
  RETVAL->dbp = __db185_open(name, flags, mode, RETVAL->type, openinfo) ;
#else
  RETVAL->dbp = dbopen(name, flags, mode, RETVAL->type, openinfo) ;
#endif /* DB_LIBRARY_COMPATIBILITY_API */
#endif

return (RETVAL) ;

#else /* Berkeley DB Version > 2 */

SV **svp;
HV *action ;
DB_File RETVAL = (DB_File)safemalloc(sizeof(DB_File_type)) ;
DB *dbp ;
STRLEN n_a;
int status ;
dMY_CXT;

/* printf("In ParseOpenInfo name=[%s] flags=[%d] mode = [%d]n", name, flags, mode) ; */
Zero(RETVAL, 1, DB_File_type) ;

/* Default to HASH */
RETVAL->filtering = 0 ;
RETVAL->filter_fetch_key = RETVAL->filter_store_key =
RETVAL->filter_fetch_value = RETVAL->filter_store_value =
RETVAL->hash = RETVAL->compare = RETVAL->prefix = NULL ;
RETVAL->type = DB_HASH ;

/* DGH - Next line added to avoid SEGV on existing hash DB */
CurrentDB = RETVAL;

/* fd for 1.86 hash in memory files doesn't return -1 like 1.85 */
RETVAL->in_memory = (name == NULL) ;

status = db_create(&RETVAL->dbp, NULL,0) ;
/* printf("db_create returned %d %s\n", status, db_strerror(status)) ; */
if (status) {
  RETVAL->dbp = NULL ;
  return (RETVAL) ;
}
  dbp = RETVAL->dbp ;
#endif WANT_ERROR
RETVAL->dbp->set_errcall(RETVAL->dbp, db_errcall_cb) ;
#endif
if (sv)
{
    if (! SvROK(sv) )
        croak ("type parameter is not a reference") ;

   svp = hv_fetch( (HV*)SvRV(sv), "GOT", 3, FALSE) ;
    if (svp && SvOK(*svp))
        action = (HV*) SvRV(*svp) ;
else
    croak("internal error") ;

if (sv_isa(sv, "DB_File::HASHINFO"))
{

    if (!isHASH)
        croak("DB_File can only tie an associative array to a DB_HASH database") ;

    RETVAL->type = DB_HASH ;

   svp = hv_fetch(action, "hash", 4, FALSE);
    if (svp && SvOK(*svp))
    {
        (void)dbp->set_h_hash(dbp, hash_cb) ;
        RETVAL->hash = newSVsv(*svp) ;
    }

   svp = hv_fetch(action, "ffactor", 7, FALSE);
    if (svp)
        (void)dbp->set_h_ffactor(dbp, my_SvUV32(*svp)) ;

   svp = hv_fetch(action, "nelem", 5, FALSE);
    if (svp)
        (void)dbp->set_h_nelem(dbp, my_SvUV32(*svp)) ;

   svp = hv_fetch(action, "bsize", 5, FALSE);
    if (svp)
        (void)dbp->set_pagesize(dbp, my_SvUV32(*svp));

   svp = hv_fetch(action, "cachesize", 9, FALSE);
    if (svp)
        (void)dbp->set_cachesize(dbp, 0, my_SvUV32(*svp), 0) ;

   svp = hv_fetch(action, "lorder", 6, FALSE);
    if (svp)
        (void)dbp->set_lorder(dbp, (int)SvIV(*svp)) ;
PrintHash(info); 
} else if (sv_isa(sv, "DB_File::BTREEINFO")) 
{ 
if (isHASH) 
croak("DB_File can only tie an associative array to a DB_BTREE database");

    RETVAL->type = DB_BTREE;

   svp = hv_fetch(action, "compare", 7, FALSE);
    if (svp && SvOK(*svp))
    {
        (void)dbp->set_bt_compare(dbp, btree_compare);
        RETVAL->compare = newSVsv(*svp);
    }

   svp = hv_fetch(action, "prefix", 6, FALSE);
    if (svp && SvOK(*svp))
    {
        (void)dbp->set_bt_prefix(dbp, btree_prefix);
        RETVAL->prefix = newSVsv(*svp);
    }

   svp = hv_fetch(action, "flags", 5, FALSE);
    if (svp)
        (void)dbp->set_flags(dbp, my_SvUV32(*svp));

   svp = hv_fetch(action, "cachesize", 9, FALSE);
    if (svp)
        (void)dbp->set_cachesize(dbp, 0, my_SvUV32(*svp), 0);

   svp = hv_fetch(action, "psize", 5, FALSE);
    if (svp)
        (void)dbp->set_pagesize(dbp, my_SvUV32(*svp));

   svp = hv_fetch(action, "lorder", 6, FALSE);
    if (svp)
        (void)dbp->set_lorder(dbp, (int)SvIV(*svp));

    PrintBtree(info);
}

else if (sv_isa(sv, "DB_File::RECNOINFO"))
{
int fixed = FALSE;

if (isHASH)
croak("DB_File can only tie an array to a DB_RECNO database");

    RETVAL->type = DB_RECNO;

   svp = hv_fetch(action, "flags", 5, FALSE);
    if (svp) {
        int flags = SvIV(*svp);
        /* remove FIXDLEN, if present */
        if (flags & DB_FIXEDLEN) {
            fixed = TRUE;
            flags &= ~DB_FIXEDLEN;
        }
    }

   svp = hv_fetch(action, "cachesize", 9, FALSE);
    if (svp) {
        status = dbp->set_cachesize(dbp, 0, my_SvUV32(*svp), 0);
    }

   svp = hv_fetch(action, "psize", 5, FALSE);
    if (svp) {
        status = dbp->set_pagesize(dbp, my_SvUV32(*svp));
    }

   svp = hv_fetch(action, "lorder", 6, FALSE);
    if (svp) {
        status = dbp->set_lorder(dbp, (int)SvIV(*svp));
    }

   svp = hv_fetch(action, "bval", 4, FALSE);
    if (svp && SvOK(*svp)) {
        int value;
        if (SvPOK(*svp))
            value = (int)*SvPV(*svp, n_a);
        else
            value = (int)SvIV(*svp);

        if (fixed) {
            (void)dbp->set_re_pad(dbp, value);
        } else {
            (void)dbp->set_re_delim(dbp, value);
        }
    }

    if (fixed) {
svp = hv_fetch(action, "reclen", 6, FALSE);
if (svp) {
    u_int32_t len = my_SvUV32(*svp);
    (void)dbp->set_re_len(dbp, len);
}

if (name != NULL) {
    (void)dbp->set_re_source(dbp, name);
    name = NULL;
}

svp = hv_fetch(action, "bfname", 6, FALSE);
if (svp && SvOK(*svp)) {
    char * ptr = SvPV(*svp,n_a);
    name = (char*) n_a ? ptr : NULL;
} else
    name = NULL;

(void)dbp->set_flags(dbp, (u_int32_t)DB_RENUMBER);
if (flags)
    (void)dbp->set_flags(dbp, (u_int32_t)flags);

PrintRecno(info);
} else
croak("type is not of type DB_File::HASHINFO, DB_File::BTREEINFO or DB_File::RECNOINFO");

{
    u_int32_t Flags = 0;
    int status;

    /* Map 1.x flags to 3.x flags */
    if ((flags & O_CREAT) == O_CREAT)
        Flags |= DB_CREATE;
#if O_RDONLY == 0
    if (flags == O_RDONLY)
#else
    if ((flags & O_RDONLY) == O_RDONLY && (flags & O_RDWR) != O_RDWR)
#endif
        Flags |= DB_RDONLY;
#ifdef O_TRUNC

#ifdef O_TRUNC

if ((flags & O_TRUNC) == O_TRUNC)
    Flags |= DB_TRUNCATE;
#endif

#ifdef AT_LEAST_DB_4_4
    /* need this for recno */
    if ((flags & O_TRUNC) == O_TRUNC)
        Flags |= DB_CREATE;
#endif

#ifdef AT_LEAST_DB_4_1
    status = (RETVAL->dbp->open)(RETVAL->dbp, NULL, name, NULL, RETVAL->type,
                              Flags, mode);
#else
    status = (RETVAL->dbp->open)(RETVAL->dbp, name, NULL, RETVAL->type,
                              Flags, mode);
#endif

/* printf("open returned %d %s\n", status, db_strerror(status)) ; */

if (status == 0) {

    status = (RETVAL->dbp->cursor)(RETVAL->dbp, NULL, &RETVAL->cursor,
                                0);
    /* printf("cursor returned %d %s\n", status, db_strerror(status)) ; */
}

if (status)
{
    db_close(RETVAL); /* close **dbp handle to prevent mem.leak */
    RETVAL->dbp = NULL;
}

}

return (RETVAL);
#endif /* Berkeley DB Version > 2 */

/* ParseOpenInfo */

#include "constants.h"

MODULE = DB_File	PACKAGE = DB_File	PREFIX = db_

INCLUDE: constants.xs

BOOT:
{  
ifdef dTHX
    dTHX;
#endif
ifdef WANT_ERROR
    SV * sv_err = perl_get_sv(ERR_BUFF, GV_ADD|GV_ADDMULTI) ;
#endif
MY_CXT_INIT;
ifdef WANT_ERROR
    PERL_UNUSED_VAR(sv_err); /* huh? we just retrieved it... */
#endif
__getBerkeleyDBInfo() ;

DBT_clear(empty) ;
empty.data = &zero ;
empty.size = sizeof(recno_t) ;
}

DB_File

db_DoTie_(isHASH, dbtype, name=undefined, flags=O_CREAT|O_RDWR, mode=0666, type=DB_HASH)
intisHASH
char *dbtype
intflags
intmode
CODE:
{
    char *name = (char *) NULL ;
    SV *sv = (SV *) NULL ;
    STRLEN n_a ;

    if (items >= 3 && SvOK(ST(2)))
        name = (char*) SvPV(ST(2), n_a) ;

        if (items == 6)
            sv = ST(5) ;

    RETVAL = ParseOpenInfo(aTHX_ isHASH, name, flags, mode, sv) ;
    Trace("db_DoTie_ %p\n", RETVAL));
    if (RETVAL->dbp == NULL) {
        Safefree(RETVAL);
        RETVAL = NULL ;
    }
}
OUTPUT:

    RETVAL
int
db_DESTROY(db)
DB_File
db
PREINIT:
  dMY_CXT;
INIT:
  CurrentDB = db ;
  Trace("DESTROY %p\n", db));
CLEANUP:
  Trace("DESTROY %p done\n", db));
  if (db->hash)
    SvREFCNT_dec(db->hash) ;
  if (db->compare)
    SvREFCNT_dec(db->compare) ;
  if (db->prefix)
    SvREFCNT_dec(db->prefix) ;
  if (db->filter_fetch_key)
    SvREFCNT_dec(db->filter_fetch_key) ;
  if (db->filter_store_key)
    SvREFCNT_dec(db->filter_store_key) ;
  if (db->filter_fetch_value)
    SvREFCNT_dec(db->filter_fetch_value) ;
  if (db->filter_store_value)
    SvREFCNT_dec(db->filter_store_value) ;
safefree(db) ;
#endif

int
db_DELETE(db, key, flags=0)
DB_File
db
DBTKEY
key
u_int
flags
PREINIT:
  dMY_CXT;
INIT:
  (void)flags;
  CurrentDB = db ;

int
db_EXISTS(db, key)
DB_File
db
DBTKEY
key
PREINIT:
dMY_CXT;
CODE:
{
    DBTvalue;
    DBT_clear(value);
    CurrentDB = db;
    RETVAL = (((db->dbp)->get)(db->dbp, TXN &key, &value, 0) == 0);
}
OUTPUT:
    RETVAL

void
db.FETCH(db, key, flags=0)
DB_File db
DBTKEY key
u_int flags
PREINIT:
    dMY_CXT;
    int RETVAL;
CODE:
{
    DBTvalue;
    DBT_clear(value);
    CurrentDB = db;
    RETVAL = db_get(db, key, value, flags);
    ST(0) = sv_newmortal();
    OutputValue(ST(0), value)
}

int
db.STORE(db, key, value, flags=0)
DB_File db
DBTKEY key
DBT value
u_int flags
PREINIT:
    dMY_CXT;
INIT:
    (void)flags;
    CurrentDB = db;

void
db.FIRSTKEY(db)
DB_File db
PREINIT:
dMY_CXT;
int RETVAL;
CODE:
{
    DBTKEY key;
    DBT value;
    
    DBT_clear(key);
    DBT_clear(value);
    CurrentDB = db;
    RETVAL = do_SEQ(db, key, value, R_FIRST);
    ST(0) = sv_newmortal();
    OutputKey(ST(0), key);
}

void
db_NEXTKEY(db, key)
DB_File db
DBTKEY key = NO_INIT
PREINIT:
dMY_CXT;
int RETVAL;
CODE:
{
    DBT value;
    
    DBT_clear(key);
    DBT_clear(value);
    CurrentDB = db;
    RETVAL = do_SEQ(db, key, value, R_NEXT);
    ST(0) = sv_newmortal();
    OutputKey(ST(0), key);
}

#
# These would be nice for RECNO
#

int
unshift(db, ...)
DB_File db
ALIAS:UNSHIFT = 1
PREINIT:
dMY_CXT;
CODE:
{
    DBTKEY key;
    DBT value;
int i;
int One;
STRLEN n_a;

DBT_clear(key);
DBT_clear(value);
CurrentDB = db;
#ifdef DB_VERSION_MAJOR
/* get the first value */
RETVAL = do_SEQ(db, key, value, DB_FIRST);
RETVAL = 0;
#else
RETVAL = -1;
#endif
for (i = items-1 ; i > 0 ; --i)
{
    DBM_ckFilter(ST(i), filter_store_value, "filter_store_value");
    value.data = SvPVbyte(ST(i), n_a);
    value.size = n_a;
    One = 1;
    key.data = &One;
    key.size = sizeof(int);
#ifdef DB_VERSION_MAJOR
    RETVAL = (db->cursor->c_put)(db->cursor, &key, &value, DB_BEFORE);
#else
    RETVAL = (db->dbp->put)(db->dbp, &key, &value, R_IBEFORE);
#endif
    if (RETVAL != 0)
        break;
}
}
OUTPUT:
RETVAL

void
pop(db)
DB_File db
PREINIT:
dMY_CXT;
ALIAS: POP = 1
PREINIT:
I32 RETVAL;
CODE:
{
    DBTKEY key;
    DBT value;

    DBT_clear(key);
DBT_clear(value) ;
CurrentDB = db ;

/* First get the final value */
RETVAL = do_SEQ(db, key, value, R_LAST) ;
ST(0) = sv_newmortal();
/* Now delete it */
if (RETVAL == 0)
{
    /* the call to del will trash value, so take a copy now */
    OutputValue(ST(0), value) ;
    RETVAL = db_del(db, key, R_CURSOR) ;
    if (RETVAL != 0)
    {
        sv_setsv(ST(0), &PL_sv_undef);
    }
}

void
shift(db)
DB_File db
PREINIT:
dMY_CXT;
ALIAS: SHIFT = 1
PREINIT:
I32 RETVAL;
CODE:
{
    DBT value ;
    DBT KEY key ;

    DBT_clear(key) ;
    DBT_clear(value) ;
    CurrentDB = db ;
    /* get the first value */
    RETVAL = do_SEQ(db, key, value, R_FIRST) ;
    ST(0) = sv_newmortal();
    /* Now delete it */
    if (RETVAL == 0)
    {
        /* the call to del will trash value, so take a copy now */
        OutputValue(ST(0), value) ;
        RETVAL = db_del(db, key, R_CURSOR) ;
        if (RETVAL != 0)
        {
            sv_setsv (ST(0), &PL_sv_undef) ;
        }
    }
I32
push(db, ...)
DB_File db
PREINIT:
dMY_CXT;
ALIAS:PUSH = 1
CODE:
{
    DBTKEY key;
    DBT value;
    DB *Db = db->dbp;
    int i;
    STRLEN n_a;
    int keyval;
    DBT_flags(key);
    DBT_flags(value);
    CurrentDB = db;
    /* Set the Cursor to the Last element */
    RETVAL = do_SEQ(db, key, value, R_LAST);
#ifndef DB_VERSION_MAJOR
    if (RETVAL >= 0)
#endif
    {
        if (RETVAL == 0)
            keyval = *(int*)key.data;
        else
            keyval = 0;
        for (i = 1; i < items; ++i)
            {
                DBM_ckFilter(ST(i), filter_store_value, "filter_store_value");
                value.data = SvPVbyte(ST(i), n_a);
                value.size = n_a;
                ++ keyval;
                key.data = &keyval;
                key.size = sizeof(int);
                RETVAL = (Db->put)(Db, TXN &key, &value, 0);
                if (RETVAL != 0)
                    break;
            }
    }
    }
OUTPUT:
RETVAL
I32
length(db)
DB_File db
PREINIT:
   dMY_CXT;
ALIAS:FETCHSIZE = 1
CODE:
   CurrentDB = db :
   RETVAL = GetArrayLength(aTHX_ db) :
OUTPUT:
   RETVAL

#  # Now provide an interface to the rest of the DB functionality  #

int
db_del(db, key, flags=0)
DB_File
db
DBTKEYkey
u_intflags
PREINIT:
   dMY_CXT;
CODE:
   CurrentDB = db :
   RETVAL = db_del(db, key, flags) :
#endif DB_VERSION_MAJOR
   if (RETVAL > 0)
      RETVAL = -1 :
   else if (RETVAL == DB_NOTFOUND)
      RETVAL = 1 :
#endif
OUTPUT:
   RETVAL

int
db_get(db, key, value, flags=0)
DB_File
db
DBTKEYkey
DBTvalue = NO_INIT
u_intflags
PREINIT:
   dMY_CXT;
CODE:
   CurrentDB = db :
   DBT_clear(value) :
   RETVAL = db_get(db, key, value, flags) :
#endif DB_VERSION_MAJOR
   if (RETVAL > 0)
RETVL = -1;
else if (RETVL == DB_NOTFOUND)
  RETVL = 1;
#endif
OUTPUT:
  RETVL
value

int
  db_put(db, key, value, flags=0)
DB_Filedb
DBTKEYkey
DBTvalue
u_intflags
PREINIT:
  dMY_CXT;
CODE:
  CurrentDB = db;
  RETVL = db_put(db, key, value, flags);
#endif DB_VERSION_MAJOR
  if (RETVL > 0)
    RETVL = -1;
  else if (RETVL == DB_KEYEXIST)
    RETVL = 1;
#endif
OUTPUT:
  RETVL
  keyif (flagSet(flags, R_IAFTER) || flagSet(flags, R_IBEFORE)) OutputKey(ST(1), key);

int
  db_fd(db)
DB_Filedb
PREINIT:
  dMY_CXT;
CODE:
  CurrentDB = db;
#endif DB_VERSION_MAJOR
  RETVL = -1;
{
  intstatus = 0;
  status = (db->in_memory
    ? -1
    : ((db->dp)->fd(dbp, &RETVL)));
  if (status != 0)
    RETVL = -1;
} #else
  RETVL = (db->in_memory

? -1
: ((db->dbp)->fd)(db->dbp) ) ;
#endif
OUTPUT:
  RETVAL

int
db_sync(db, flags=0)
DB_File		db
u_int		flags
PREINIT:
  dMY_CXT;
CODE:
  CurrentDB = db ;
  RETVAL = db_sync(db, flags) ;
#endif
if (RETVAL > 0)
  RETVAL = -1 ;
#endif
OUTPUT:
  RETVAL

int
db_seq(db, key, value, flags)
DB_File		db
DBTKEY		key
DBT		value = NO_INIT
u_int		flags
PREINIT:
  dMY_CXT;
CODE:
  CurrentDB = db ;
  DBT_clear(value) ;
  RETVAL = db_seq(db, key, value, flags);
#endif
ifdef DB_VERSION_MAJOR
if (RETVAL > 0)
  RETVAL = -1 ;
else if (RETVAL == DB_NOTFOUND)
  RETVAL = 1 ;
#endif
OUTPUT:
  RETVAL
  key
  value

SV *
  filter_fetch_key(db, code)
DB_File
SV *code
SV *RETVAL = &PL_sv_undef;
CODE:
    DBM_setFilter(db-&gt;filter_fetch_key, code);

SV *
filter_store_key(db, code)
DB_File
SV *code
SV *RETVAL = &PL_sv_undef;
CODE:
    DBM_setFilter(db-&gt;filter_store_key, code);

SV *
filter_fetch_value(db, code)
DB_File
SV *code
SV *RETVAL = &PL_sv_undef;
CODE:
    DBM_setFilter(db-&gt;filter_fetch_value, code);

SV *
filter_store_value(db, code)
DB_File
SV *code
SV *RETVAL = &PL_sv_undef;
CODE:
    DBM_setFilter(db-&gt;filter_store_value, code);

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

---
abstract: 'Perl5 access to Berkeley DB version 1.x'
author:
- Paul Marquess &lt;pmqs@cpan.org&gt;
build_requires:
    ExtUtils::MakeMaker: '0'
configure_requires:
    ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.34, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: '1.4'
name: DB_File
no_index:
directory:
  - t
  - inc
version: '1.842'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
* /opt/cola/permits/1139282497_1614508072.77/0/perl-DB_File-1.842-1.el8-1.src.rpm-cosi-expand-archive-
  OHUIHVY5/DB_File-1.842.tar.gz-cosi-expand-archive-uwdKKRe/DB_File-1.842/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/1139282497_1614508072.77/0/perl-DB_File-1.842-1.el8-1.src.rpm-cosi-expand-archive-
  OHUIHVY5/perl-DB_File.spec
No license file was found, but licenses were detected in source scan.

#     Copyright (c) 1995-2018 Paul Marquess. All rights reserved.
#     This program is free software; you can redistribute it and/or
#     modify it under the same terms as Perl itself.
=head1 NAME

DB_File - Perl5 access to Berkeley DB version 1.x

=head1 SYNOPSIS

use DB_File;

[$X =] tie %hash, 'DB_File', [$filename, $flags, $mode, $DB_HASH] ;
[$X =] tie %hash, 'DB_File', $filename, $flags, $mode, $DB_BTREE ;
[$X =] tie @array, 'DB_File', $filename, $flags, $mode, $DB_RECNO ;

$status = $X->del($key [, $flags]) ;
$status = $X->put($key, $value [, $flags]) ;
$status = $X->get($key, $value [, $flags]) ;
$status = $X->seq($key, $value, $flags) ;
$status = $X->sync([$flags]) ;
$status = $X->fd ;

# BTREE only
$count = $X->get_dup($key) ;
@list  = $X->get_dup($key) ;
%list  = $X->get_dup($key, 1) ;
$status = $X->find_dup($key, $value) ;
$status = $X->del_dup($key, $value) ;

# RECNO only
$a = $X->length;
$a = $X->pop ;
$X->push(list);
$a = $X->shift;
$X->unshift(list);
@r = $X->splice(offset, length, elements);

# DBM Filters
$old_filter = $db->filter_store_key ( sub { ... } ) ;
$old_filter = $db->filter_store_value( sub { ... } ) ;
$old_filter = $db->filter_fetch_key  ( sub { ... } ) ;
$old_filter = $db->filter_fetch_value( sub { ... } ) ;

untie %hash ;
untie @array ;

=head1 DESCRIPTION

B<DB_File> is a module which allows Perl programs to make use of the
facilities provided by Berkeley DB version 1.x (if you have a newer
version of DB, see L<Using DB_File with Berkeley DB version 2 or greater>).
It is assumed that you have a copy of the Berkeley DB manual pages at
hand when reading this documentation. The interface defined here
mirrors the Berkeley DB interface closely.

Berkeley DB is a C library which provides a consistent interface to a
number of database formats. B<DB_File> provides an interface to all
three of the database types currently supported by Berkeley DB.

The file types are:

=over 5

=item B<DB_HASH>

This database type allows arbitrary key/value pairs to be stored in data
files. This is equivalent to the functionality provided by other
hashing packages like DBM, NDBM, ODBM, GDBM, and SDBM. Remember though,
the files created using DB_HASH are not compatible with any of the
other packages mentioned.

A default hashing algorithm, which will be adequate for most
applications, is built into Berkeley DB. If you do need to use your own
hashing algorithm it is possible to write your own in Perl and have
B<DB_File> use it instead.
The btree format allows arbitrary key/value pairs to be stored in a sorted, balanced binary tree.

As with the DB_HASH format, it is possible to provide a user defined Perl routine to perform the comparison of keys. By default, though, the keys are stored in lexical order.

DB_RECNO allows both fixed-length and variable-length flat text files to be manipulated using the same key/value pair interface as in DB_HASH and DB_BTREE. In this case the key will consist of a record (line) number.

Using DB_File with Berkeley DB version 2 or greater

Although DB_File is intended to be used with Berkeley DB version 1, it can also be used with version 2, 3 or 4. In this case the interface is limited to the functionality provided by Berkeley DB 1.x. Anywhere the version 2 or greater interface differs, DB_File arranges for it to work like version 1. This feature allows DB_File scripts that were built with version 1 to be migrated to version 2 or greater without any changes.

If you want to make use of the new features available in Berkeley DB 2.x or greater, use the Perl module BerkeleyDB instead.

The database file format has changed multiple times in Berkeley DB version 2, 3 and 4. If you cannot recreate your databases, you must dump any existing databases with either the db_dump or the db_dump185 utility that comes with Berkeley DB. Once you have rebuilt DB_File to use Berkeley DB version 2 or greater, your databases can be recreated using db_load. Refer to the Berkeley DB documentation for further details.

Please read COPYRIGHT before using version 2.x or greater of Berkeley DB with DB_File.
array (for the DB_RECNO file type).

In addition to the tie() interface, it is also possible to access most of the functions provided in the Berkeley DB API directly. See L<THE API INTERFACE>.

=head2 Opening a Berkeley DB Database File

Berkeley DB uses the function dbopen() to open or create a database. Here is the C prototype for dbopen():

```c
DB*
dbopen (const char * file, int flags, int mode,
       DBTYPE type, const void * openinfo)
```

The parameter C<type> is an enumeration which specifies which of the 3 interface methods (DB_HASH, DB_BTREE or DB_RECNO) is to be used. Depending on which of these is actually chosen, the final parameter, I<openinfo> points to a data structure which allows tailoring of the specific interface method.

This interface is handled slightly differently in B<DB_File>. Here is an equivalent call using B<DB_File>:

```c
tie %array, 'DB_File', $filename, $flags, $mode, $DB_HASH ;
```

The C<filename>, C<flags> and C<mode> parameters are the direct equivalent of their dbopen() counterparts. The final parameter $DB_HASH performs the function of both the C<type> and C<openinfo> parameters in dbopen().

In the example above $DB_HASH is actually a pre-defined reference to a hash object. B<DB_File> has three of these pre-defined references. Apart from $DB_HASH, there is also $DB_BTREE and $DB_RECNO.

The keys allowed in each of these pre-defined references is limited to the names used in the equivalent C structure. So, for example, the $DB_HASH reference will only allow keys called C<bsize>, C<cachesize>, C<ffactor>, C<hash>, C<lorder> and C<nelem>.

To change one of these elements, just assign to it like this:

```perl
$DB_HASH->{'cachesize'} = 10000 ;
```

The three predefined variables $DB_HASH, $DB_BTREE and $DB_RECNO are usually adequate for most applications. If you do need to create extra instances of these objects, constructors are available for each file type.
Here are examples of the constructors and the valid options available for DB_HASH, DB_BTREE and DB_RECNO respectively.

```
$a = new DB_File::HASHINFO ;
$a->{'bsize'} ;
$a->{'cachesize'} ;
$a->{'ffactor'} ;
$a->{'hash'} ;
$a->{'lorder'} ;
$a->{'nelem'} ;

$b = new DB_File::BTREEINFO ;
$b->{'flags'} ;
$b->{'cachesize'} ;
$b->{'maxkeypage'} ;
$b->{'minkeypage'} ;
$b->{'psize'} ;
$b->{'compare'} ;
$b->{'prefix'} ;
$b->{'lorder'} ;

$c = new DB_File::RECNOINFO ;
$c->{'bval'} ;
$c->{'cachesize'} ;
$c->{'psize'} ;
$c->{'flags'} ;
$c->{'lorder'} ;
$c->{'reclen'} ;
$c->{'bfname'} ;
```

The values stored in the hashes above are mostly the direct equivalent of their C counterpart. Like their C counterparts, all are set to a default values - that means you don't have to set I<all> of the values when you only want to change one. Here is an example:

```
$a = new DB_File::HASHINFO ;
$a->{'cachesize'} = 12345 ;
tie %y, 'DB_File', "filename", $flags, 0777, $a ;
```

A few of the options need extra discussion here. When used, the C equivalent of the keys C<hash>, C<compare> and C<prefix> store pointers to C functions. In B<DB_File> these keys are used to store references to Perl subs. Below are templates for each of the subs:

```
sub hash
{
    my ($data) = @_;
```
...  # return the hash value for $data
return $hash ;
}

sub compare
{
my ($key, $key2) = @_ ;
...
    # return 0 if $key1 eq $key2
    #    -1 if $key1 lt $key2
    #     1 if $key1 gt $key2
    return (-1, 0 or 1) ;
}

sub prefix
{
my ($key, $key2) = @_ ;
...
    # return number of bytes of $key2 which are
    # necessary to determine that it is greater than $key1
    return $bytes ;
}

See L<Changing the BTREE sort order> for an example of using the
C<compare> template.

If you are using the DB_RECNO interface and you intend making use of
C<bval>, you should check out L<The 'bval' Option>.

=head2 Default Parameters

It is possible to omit some or all of the final 4 parameters in the
call to C<tie> and let them take default values. As DB_HASH is the most
common file format used, the call:

    tie %A, "DB_File", "filename" ;

is equivalent to:

    tie %A, "DB_File", "filename", O_CREAT|O_RDWR, 0666, $DB_HASH ;

It is also possible to omit the filename parameter as well, so the
call:

    tie %A, "DB_File" ;

is equivalent to:
See L<In Memory Databases> for a discussion on the use of C<undef> in place of a filename.

=head2 In Memory Databases

Berkeley DB allows the creation of in-memory databases by using NULL (that is, a C<(char *)0> in C) in place of the filename. B<DB_File> uses C<undef> instead of NULL to provide this functionality.

=head1 DB_HASH

The DB_HASH file format is probably the most commonly used of the three file formats that B<DB_File> supports. It is also very straightforward to use.

=head2 A Simple Example

This example shows how to create a database, add key/value pairs to the database, delete keys/value pairs and finally how to enumerate the contents of the database.

```perl
use warnings ;
use strict ;
use DB_File ;
our (%h, $k, $v) ;

unlink "fruit" ;
tie %h, "DB_File", "fruit", O_RDWR|O_CREAT, 0666, $DB_HASH
    or die "Cannot open file 'fruit': $!
";

# Add a few key/value pairs to the file
$h{"apple"} = "red" ;
$h{"orange"} = "orange" ;
$h{"banana"} = "yellow" ;
$h{"tomato"} = "red" ;

# Check for existence of a key
print "Banana Exists\n" if $h{"banana"} ;

# Delete a key/value pair.
delete $h{"apple"} ;

# print the contents of the file
while (($k, $v) = each %h)
    { print "$k -> $v\n" }```

untie %h;

here is the output:

   Banana Exists
   orange -> orange
tomato -> red
banana -> yellow

Note that the like ordinary associative arrays, the order of the keys retrieved is in an apparently random order.

=head1 DB_BTREE

The DB_BTREE format is useful when you want to store data in a given order. By default the keys will be stored in lexical order, but as you will see from the example shown in the next section, it is very easy to define your own sorting function.

=head2 Changing the BTREE sort order

This script shows how to override the default sorting algorithm that BTREE uses. Instead of using the normal lexical ordering, a case insensitive compare function will be used.

    use warnings ;
    use strict ;
    use DB_File ;

    my %h ;

    sub Compare {
        my ($key1, $key2) = @_ ;
        "\L$key1" cmp "\L$key2" ;
    }

    # specify the Perl sub that will do the comparison
$DB_BTREE->'compare' = \&Compare ;

    unlink "tree" ;
tie %h, "DB_File", "tree", O_RDWR|O_CREAT, 0666, $DB_BTREE
    or die "Cannot open file 'tree': $!\n" ;

    # Add a key/value pair to the file
$%h{'Wall'} = 'Larry' ;
$h{'Smith'} = 'John' ;
$h{'mouse'} = 'mickey' ;
$h{'duck'} = 'donald' ;

# Delete
delete $h{"duck"} ;

# Cycle through the keys printing them in order.
# Note it is not necessary to sort the keys as
# the btree will have kept them in order automatically.
foreach (keys %h)
{
    print "$_"
}

untie %h ;

Here is the output from the code above.

    mouse
    Smith
    Wall

There are a few points to bear in mind if you want to change the ordering in a BTREE database:

=over 5
=item 1.

The new compare function must be specified when you create the database.

=item 2.

You cannot change the ordering once the database has been created. Thus you must use the same compare function every time you access the database.

=item 3

Duplicate keys are entirely defined by the comparison function. In the case-insensitive example above, the keys: 'KEY' and 'key' would be considered duplicates, and assigning to the second one would overwrite the first. If duplicates are allowed for (with the R_DUP flag discussed below), only a single copy of duplicate keys is stored in the database --- so (again with example above) assigning three values to the keys: 'KEY', 'Key', and 'key' would leave just the first key: 'KEY' in the database with three values. For some situations this results in information loss, so care should be taken to provide fully qualified comparison functions when necessary.
For example, the above comparison routine could be modified to additionally compare case-sensitively if two keys are equal in the case insensitive comparison:

```perl
sub compare {
    my($key1, $key2) = @_;  
    lc $key1 cmp lc $key2 ||
    $key1 cmp $key2;
}
```

And now you will only have duplicates when the keys themselves are truly the same. (note: in versions of the db library prior to about November 1996, such duplicate keys were retained so it was possible to recover the original keys in sets of keys that compared as equal).

=head2 Handling Duplicate Keys

The BTREE file type optionally allows a single key to be associated with an arbitrary number of values. This option is enabled by setting the flags element of C<$DB_BTREE> to R_DUP when creating the database.

There are some difficulties in using the tied hash interface if you want to manipulate a BTREE database with duplicate keys. Consider this code:

```perl
use warnings;
use strict;
use DB_File;

my ($filename, %h);

$filename = "tree";
unlink $filename;

# Enable duplicate records
$DB_BTREE->{flags} = R_DUP;

tie %h, "DB_File", $filename, O_RDWR|O_CREAT, 0666, $DB_BTREE
or die "Cannot open $filename: $!
"

# Add some key/value pairs to the file
$h{Wall} = 'Larry';
$h{Wall} = 'Brick';  # Note the duplicate key
$h{Wall} = 'Brick';  # Note the duplicate key and value
```
$h{'Smith'} = 'John' ;
$h{'mouse'} = 'mickey' ;

# iterate through the associative array
# and print each key/value pair.
foreach (sort keys %h)
   { print "$_  -> $h{$_}\n" }

untie %h ;

Here is the output:

Smith  -> John
Wall   -> Larry
Wall   -> Larry
Wall   -> Larry
mouse  -> mickey

As you can see 3 records have been successfully created with key C<Wall> - the only thing is, when they are retrieved from the database they I<seem> to have the same value, namely C<Larry>. The problem is caused by the way that the associative array interface works. Basically, when the associative array interface is used to fetch the value associated with a given key, it will only ever retrieve the first value.

Although it may not be immediately obvious from the code above, the associative array interface can be used to write values with duplicate keys, but it cannot be used to read them back from the database.

The way to get around this problem is to use the Berkeley DB API method called C<seq>. This method allows sequential access to key/value pairs. See L<THE API INTERFACE> for details of both the C<seq> method and the API in general.

Here is the script above rewritten using the C<seq> API method.

use warnings ;
use strict ;
use DB_File ;

my ($filename, $x, %h, $status, $key, $value) ;

$filename = "tree" ;
unlink $filename ;

# Enable duplicate records
$DB_BTREE->{'flags'} = R_DUP ;
$x = tie %h, "DB_File", $filename, O_RDWR|O_CREAT, 0666, $DB_BTREE
or die "Cannot open $filename: $!
"

# Add some key/value pairs to the file
$h{'Wall'} = 'Larry' ;
$h{'Wall'} = 'Brick' ; # Note the duplicate key
$h{'Wall'} = 'Brick' ; # Note the duplicate key and value
$h{'Smith'} = 'John' ;
$h{'mouse'} = 'mickey' ;

# iterate through the btree using seq
# and print each key/value pair.
$key = $value = 0 ;
for ($status = $x->seq($key, $value, R_FIRST) ;
    $status == 0 ;
    $status = $x->seq($key, $value, R_NEXT) )
{  print "$key -> $value
"}

undef $x ;
untie %h ;

that prints:

Smith   -> John
Wall    -> Brick
Wall    -> Brick
Wall    -> Larry
mouse   -> mickey

This time we have got all the key/value pairs, including the multiple
values associated with the key C<Wall>.

To make life easier when dealing with duplicate keys, B<DB_File> comes with
a few utility methods.

=head2 The get_dup() Method

The C<get_dup> method assists in
reading duplicate values from BTREE databases. The method can take the
following forms:

$count = $x->get_dup($key) ;
@list  = $x->get_dup($key) ;
%list  = $x->get_dup($key, 1) ;

In a scalar context the method returns the number of values associated
with the key, C<$key>.
In list context, it returns all the values which match \$key. Note that the values will be returned in an apparently random order.

In list context, if the second parameter is present and evaluates TRUE, the method returns an associative array. The keys of the associative array correspond to the values that matched in the BTREE and the values of the array are a count of the number of times that particular value occurred in the BTREE.

So assuming the database created above, we can use \texttt{get\_dup} like this:

```perl
use warnings;
use strict;
use DB_File;

my ($filename, $x, %h);

$filename = "tree";

# Enable duplicate records
$DB_BTREE->{'flags'} = R_DUP;

$x = tie %h, "DB_File", $filename, O_RDWR|O_CREAT, 0666, $DB_BTREE or die "Cannot open $filename: $!
";

my $cnt = $x->get\_dup("Wall") ;
print "Wall occurred $cnt times\n" ;

my %hash = $x->get\_dup("Wall", 1) ;
print "Larry is there\n" if $hash{\'Larry\'} ;
print "There are $\{hash{\'Brick\'}\} Brick Walls\n" ;

my @list = sort $x->get\_dup("Wall") ;
print "Wall =>[@list]\n" ;

@list = $x->get\_dup("Smith") ;
print "Smith =>[@list]\n" ;

@list = $x->get\_dup("Dog") ;
print "Dog =>[@list]\n" ;

and it will print:

Wall occurred 3 times
Larry is there
There are 2 Brick Walls
Wall => [Brick, Brick, Larry]
Smith => [John]
Dog => []

=head2 The find_dup() Method

$status = $X->find_dup($key, $value) ;

This method checks for the existence of a specific key/value pair. If the pair exists, the cursor is left pointing to the pair and the method returns 0. Otherwise the method returns a non-zero value.

Assuming the database from the previous example:

use warnings ;
use strict ;
use DB_File ;

my ($filename, $x, %h, $found) ;

$filename = "tree" ;

# Enable duplicate records
$DB_BTREE->{'flags'} = R_DUP ;

$x = tie %h, "DB_File", $filename, O_RDWR|O_CREAT, 0666, $DB_BTREE or die "Cannot open $filename: $!\n" ;

$found = ( $x->find_dup("Wall", "Larry") == 0 ? "" : "not") ;
print "Larry Wall is $found there\n" ;

$found = ( $x->find_dup("Wall", "Harry") == 0 ? "" : "not") ;
print "Harry Wall is $found there\n" ;

undef $x ;
untie %h ;

prints this

Larry Wall is there
Harry Wall is not there

=head2 The del_dup() Method

$status = $X->del_dup($key, $value) ;

This method deletes a specific key/value pair. It returns
0 if they exist and have been deleted successfully. Otherwise the method returns a non-zero value.

Again assuming the existence of the C<tree> database

```perl
use warnings;
use strict;
use DB_File;

my ($filename, $x, %h, $found);

$filename = "tree";

# Enable duplicate records
$DB_BTREE->{'flags'} = R_DUP;

$x = tie %h, "DB_File", $filename, O_RDWR|O_CREAT, 0666, $DB_BTREE or die "Cannot open $filename: $!
"

$x->del_dup("Wall", "Larry") ;

$found = ( $x->find_dup("Wall", "Larry") == 0 ? "" : "not") ;
print "Larry Wall is $found there\n" ;

undef $x ;
untie %h ;
```

prints this

Larry Wall is not there

=head2 Matching Partial Keys

The BTREE interface has a feature which allows partial keys to be matched. This functionality is I<only> available when the C<seq> method is used along with the R_CURSOR flag.

```perl
$x->seq($key, $value, R_CURSOR) ;
```

Here is the relevant quote from the dbopen man page where it defines the use of the R_CURSOR flag with seq:

> Note, for the DB_BTREE access method, the returned key is not necessarily an exact match for the specified key. The returned key is the smallest key greater than or equal to the specified key, permitting partial key matches and range searches.

In the example script below, the C<match> sub uses this feature to find
use warnings;
use strict;
use DB_File;
use Fcntl;

my ($filename, $x, %h, $st, $key, $value);

sub match {
    my $key = shift;
    my $value = 0;
    my $orig_key = $key;
    $x->seq($key, $value, R_CURSOR);
    print "$orig_key\t-> $key\t-> $value\n";
}

$filename = "tree";
unlink $filename;

$x = tie %h, "DB_File", $filename, O_RDWR|O_CREAT, 0666, $DB_BTREE;
    or die "Cannot open $filename: $!
";

# Add some key/value pairs to the file
$h{'mouse'} = 'mickey';
$h{'Wall'} = 'Larry';
$h{'Walls'} = 'Brick';
$h{'Smith'} = 'John';

$key = $value = 0;
print "IN ORDER\n";
for ($st = $x->seq($key, $value, R_FIRST); $st == 0; $st = $x->seq($key, $value, R_NEXT)) {
    print "$key\t-> $value\n";
}

print "\nPARTIAL MATCH\n";

match "Wa";
match "A";
match "a";

undef $x;
untie %h;
Here is the output:

IN ORDER
Smith -> John
Wall -> Larry
Walls -> Brick
mouse -> mickey

PARTIAL MATCH
Wa -> Wall -> Larry
A -> Smith -> John
a -> mouse -> mickey

=head1 DB_RECNO

DB_RECNO provides an interface to flat text files. Both variable and fixed length records are supported.

In order to make RECNO more compatible with Perl, the array offset for all RECNO arrays begins at 0 rather than 1 as in Berkeley DB.

As with normal Perl arrays, a RECNO array can be accessed using negative indexes. The index -1 refers to the last element of the array, -2 the second last, and so on. Attempting to access an element before the start of the array will raise a fatal run-time error.

=head2 The 'bval' Option

The operation of the bval option warrants some discussion. Here is the definition of bval from the Berkeley DB 1.85 recno manual page:

The delimiting byte to be used to mark the end of a record for variable-length records, and the pad character for fixed-length records. If no value is specified, newlines (``
') are used to mark the end of variable-length records and fixed-length records are padded with spaces.

The second sentence is wrong. In actual fact bval will only default to C<"\n"> when the openinfo parameter in dbopen is NULL. If a non-NULL openinfo parameter is used at all, the value that happens to be in bval will be used. That means you always have to specify bval when making use of any of the options in the openinfo parameter. This documentation error will be fixed in the next release of Berkeley DB.

That clarifies the situation with regards Berkeley DB itself. What about B<DB_File>? Well, the behavior defined in the quote above is quite useful, so B<DB_File> conforms to it.
That means that you can specify other options (e.g. cachesize) and still have bval default to C<"\n"> for variable length records, and space for fixed length records.

Also note that the bval option only allows you to specify a single byte as a delimiter.

=head2 A Simple Example

Here is a simple example that uses RECNO (if you are using a version of Perl earlier than 5.004_57 this example won't work -- see L<Extra RECNO Methods> for a workaround).

```perl
use warnings;
use strict;
use DB_File;

my $filename = "text";
unlink $filename;

my @h;
tie @h, "DB_File", $filename, O_RDWR|O_CREAT, 0666, $DB_RECNO
    or die "Cannot open file 'text': $!
    
# Add a few key/value pairs to the file
$h[0] = "orange";
$h[1] = "blue";
$h[2] = "yellow";
push @h, "green", "black";

my $elements = scalar @h;
print "The array contains $elements entries\n";

my $last = pop @h;
print "popped $last\n";
unshift @h, "white";
my $first = shift @h;
print "shifted $first\n";

# Check for existence of a key
print "Element 1 Exists with value $h[1]\n" if $h[1];

# use a negative index
print "The last element is $h[-1]\n";
print "The 2nd last element is $h[-2]\n";
```
Here is the output from the script:

The array contains 5 entries
popped black
shifted white
Element 1 Exists with value blue
The last element is green
The 2nd last element is yellow

=head2 Extra RECNO Methods

If you are using a version of Perl earlier than 5.004_57, the tied array interface is quite limited. In the example script above
C<push>, C<pop>, C<shift>, C<unshift>
or determining the array length will not work with a tied array.

To make the interface more useful for older versions of Perl, a number of methods are supplied with B<DB_File> to simulate the missing array operations. All these methods are accessed via the object returned from the tie call.

Here are the methods:

=over 5
=item B<$X-E<gt>push(list) ;>

Pushes the elements of C<list> to the end of the array.

=item B<$value = $X-E<gt>pop ;>

Removes and returns the last element of the array.

=item B<$X-E<gt>shift>

Removes and returns the first element of the array.

=item B<$X-E<gt>unshift(list) ;>

Pushes the elements of C<list> to the start of the array.

=item B<$X-E<gt>length>

Returns the number of elements in the array.
Returns a splice of the array.

Another Example

Here is a more complete example that makes use of some of the methods described above. It also makes use of the API interface directly (see L<THE API INTERFACE>).

```perl
use warnings ;
use strict ;
my (@h, $H, $file, $i) ;
use DB_File ;
use Fcntl ;

$file = "text" ;

unlink $file ;

$H = tie @h, "DB_File", $file, O_RDWR|O_CREAT, 0666, $DB_RECNO
    or die "Cannot open file $file: $!" ;

# first create a text file to play with
$h[0] = "zero" ;
$h[1] = "one" ;
$h[2] = "two" ;
$h[3] = "three" ;
$h[4] = "four" ;

# Print the records in order.
# The length method is needed here because evaluating a tied array in a scalar context does not return the number of elements in the array.

print "ORIGINAL\n" ;
foreach $i (0 .. $H->length - 1) {
    print "$i: $h[$i]\n" ;
}

# use the push & pop methods
$sa = $H->pop ;
$H->push("last") ;
print "The last record was [$sa]\n" ;
```
# and the shift & unshift methods
$a = $H->shift;
$H->unshift("first");
print "The first record was [\$a]\n";

# Use the API to add a new record after record 2.
$i = 2;
$H->put($i, "Newbie", R_IAFTER);

# and a new record before record 1.
$i = 1;
$H->put($i, "New One", R_IBEFORE);

# delete record 3
$H->del(3);

# now print the records in reverse order
print "\nREVERSE\n";
for ($i = $H->length - 1 ; $i >= 0 ; -- $i)
{ print "$i: $h[$i]\n" }

# same again, but use the API functions instead
print "\nREVERSE again\n";
my ($s, $k, $v) = (0, 0, 0);
for ($s = $H->seq($k, $v, R_LAST);
    $s == 0;
    $s = $H->seq($k, $v, R_PREV))
{ print "$k: $v\n" }

undef $H;
untie @h;

and this is what it outputs:

**ORIGINAL**
0: zero
1: one
2: two
3: three
4: four

The last record was [four]
The first record was [zero]

**REVERSE**
5: last
4: three
Notes:

=over 5
=item 1.

Rather than iterating through the array, C<@h> like this:

    foreach $i (@h)

it is necessary to use either this:

    foreach $i (0 .. $H->length - 1)

or this:

    for ($a = $H->get($k, $v, R_FIRST) ;
      $a == 0 ;
      $a = $H->get($k, $v, R_NEXT) )

=item 2.

Notice that both times the C<put> method was used the record index was
specified using a variable, C<$i>, rather than the literal value
itself. This is because C<put> will return the record number of the
inserted line via that parameter.

=back

=head1 THE API INTERFACE

As well as accessing Berkeley DB using a tied hash or array, it is also
possible to make direct use of most of the API functions defined in the
Berkeley DB documentation.
To do this you need to store a copy of the object returned from the tie.

$db = tie %hash, "DB_File", "filename" ;

Once you have done that, you can access the Berkeley DB API functions as B<DB_File> methods directly like this:

$db->put($key, $value, R_NOOVERWRITE) ;

B<Important: If you have saved a copy of the object returned from C<tie>, the underlying database file will I<not> be closed until both the tied variable is untied and all copies of the saved object are destroyed.

use DB_File ;
$db = tie %hash, "DB_File", "filename"
    or die "Cannot tie filename: $!" ;
...
undef $db ;
untie %hash ;

See L<The untie() Gotcha> for more details.

All the functions defined in L<dbopen> are available except for close() and dbopen() itself. The B<DB_File> method interface to the supported functions have been implemented to mirror the way Berkeley DB works whenever possible. In particular note that:

=over 5
=item *

The methods return a status value. All return 0 on success. All return -1 to signify an error and set C<$!> to the exact error code. The return code 1 generally (but not always) means that the key specified did not exist in the database.

Other return codes are defined. See below and in the Berkeley DB documentation for details. The Berkeley DB documentation should be used as the definitive source.

=item *

Whenever a Berkeley DB function returns data via one of its parameters, the equivalent B<DB_File> method does exactly the same.

=item *
If you are careful, it is possible to mix API calls with the tied hash/array interface in the same piece of code. Although only a few of the methods used to implement the tied interface currently make use of the cursor, you should always assume that the cursor has been changed any time the tied hash/array interface is used. As an example, this code will probably not do what you expect:

```perl
$X = tie %x, 'DB_File', $filename, O_RDWR|O_CREAT, 0777, SDB_BTREE
   or die "Cannot tie $filename: $!" ;

# Get the first key/value pair and set the cursor
$X->seq($key, $value, R_FIRST) ;

# this line will modify the cursor
$count = scalar keys %x ;

# Get the second key/value pair.
# oops, it didn't, it got the last key/value pair!
$X->seq($key, $value, R_NEXT) ;
```

The code above can be rearranged to get around the problem, like this:

```perl
$X = tie %x, 'DB_File', $filename, O_RDWR|O_CREAT, 0777, SDB_BTREE
   or die "Cannot tie $filename: $!" ;

# this line will modify the cursor
$count = scalar keys %x ;

# Get the first key/value pair and set the cursor
$X->seq($key, $value, R_FIRST) ;

# Get the second key/value pair.
# worked this time.
$X->seq($key, $value, R_NEXT) ;
```

All the constants defined in L<dbopen> for use in the flags parameters in the methods defined below are also available. Refer to the Berkeley DB documentation for the precise meaning of the flags values.

Below is a list of the methods available.

```perl
@status = $X->get($key, $value [, $flags]) ;
```

Given a key (C<$key>) this method reads the value associated with it
from the database. The value read from the database is returned in the
C<$value> parameter.

If the key does not exist the method returns 1.

No flags are currently defined for this method.

=item B<$status = $X-E<gt>put($key, $value [, $flags]) ;>

Stores the key/value pair in the database.

If you use either the R_IAFTER or R_IBEFORE flags, the C<$key> parameter
will have the record number of the inserted key/value pair set.

Valid flags are R_CURSOR, R_IAFTER, R_IBEFORE, R_NOOVERWRITE and
R_SET_CURSOR.

=item B<$status = $X-E<gt>del($key [, $flags]) ;>

Removes all key/value pairs with key C<$key> from the database.

A return code of 1 means that the requested key was not in the
database.

R_CURSOR is the only valid flag at present.

=item B<$status = $X-E<gt>fd ;>

Returns the file descriptor for the underlying database.

See L<Locking: The Trouble with fd> for an explanation for why you should
not use C<fd> to lock your database.

=item B<$status = $X-E<gt>seq($key, $value, $flags) ;>

This interface allows sequential retrieval from the database. See
L<dbopen> for full details.

Both the C<$key> and C<$value> parameters will be set to the key/value
pair read from the database.

The flags parameter is mandatory. The valid flag values are R_CURSOR,
R_FIRST, R_LAST, R_NEXT and R_PREV.

=item B<$status = $X-E<gt>sync([$flags]) ;>

Flushes any cached buffers to disk.
R_RECNOSYNC is the only valid flag at present.

=head1 DBM FILTERS

A DBM Filter is a piece of code that is be used when you always want to make the same transformation to all keys and/or values in a DBM database. An example is when you need to encode your data in UTF-8 before writing to the database and then decode the UTF-8 when reading from the database file.

There are two ways to use a DBM Filter.

=item 1.
Using the low-level API defined below.

=item 2.
Using the DBM_Filter module. This module hides the complexity of the API defined below and comes with a number of "canned" filters that cover some of the common use-cases.

=back

Use of the DBM_Filter module is recommended.

=head2 DBM Filter Low-level API

There are four methods associated with DBM Filters. All work identically, and each is used to install (or uninstall) a single DBM Filter. Each expects a single parameter, namely a reference to a sub. The only difference between them is the place that the filter is installed.

To summarise:

=item B<filter_store_key>
If a filter has been installed with this method, it will be invoked every time you write a key to a DBM database.

=item B<filter_store_value>
If a filter has been installed with this method, it will be invoked
every time you write a value to a DBM database.

=item B<filter_fetch_key>

If a filter has been installed with this method, it will be invoked every time you read a key from a DBM database.

=item B<filter_fetch_value>

If a filter has been installed with this method, it will be invoked every time you read a value from a DBM database.

=back

You can use any combination of the methods, from none, to all four.

All filter methods return the existing filter, if present, or C<undef> in not.

To delete a filter pass C<undef> to it.

=head2 The Filter

When each filter is called by Perl, a local copy of C<$_> will contain the key or value to be filtered. Filtering is achieved by modifying the contents of C<$_>. The return code from the filter is ignored.

=head2 An Example -- the NULL termination problem.

Consider the following scenario. You have a DBM database that you need to share with a third-party C application. The C application assumes that I<all> keys and values are NULL terminated. Unfortunately when Perl writes to DBM databases it doesn't use NULL termination, so your Perl application will have to manage NULL termination itself. When you write to the database you will have to use something like this:

```perl
$hash{ "$key\0" } = "$value\0" ;
```

Similarly the NULL needs to be taken into account when you are considering the length of existing keys/values.

It would be much better if you could ignore the NULL terminations issue in the main application code and have a mechanism that automatically added the terminating NULL to all keys and values whenever you write to the database and have them removed when you read from the database. As I'm sure you have already guessed, this is a problem that DBM Filters can fix very easily.
use warnings;
use strict;
use DB_File;

my %hash;
my $filename = "filt";
unlink $filename;

my $db = tie %hash, 'DB_File', $filename, O_CREAT|O_RDWR, 0666, $DB_HASH
or die "Cannot open $filename: $!\n";

# Install DBM Filters
$db->filter_fetch_key ( sub { s/\0$//    } ) ;
$db->filter_store_key ( sub { $_. =~ "\0" } ) ;
$db->filter_fetch_value( sub { s/\0$/    } ) ;
$db->filter_store_value( sub { $_. =~ "\0" } ) ;

$hash{ "abc" } = "def" ;
my $a = $hash{ "ABC" } ;
# ...
undef $db ;
untie %hash ;

Hopefully the contents of each of the filters should be
self-explanatory. Both "fetch" filters remove the terminating NULL,
and both "store" filters add a terminating NULL.

=head2 Another Example -- Key is a C int.

Here is another real-life example. By default, whenever Perl writes to
a DBM database it always writes the key and value as strings. So when
you use this:

$hash{12345} = "something" ;

the key 12345 will get stored in the DBM database as the 5 byte string
"12345". If you actually want the key to be stored in the DBM database
as a C int, you will have to use C<pack> when writing, and C<unpack>
when reading.

Here is a DBM Filter that does it:

use warnings ;
use strict ;
use DB_File ;
my %hash ;
my $filename = "filt" ;
unlink $filename ;

my $db = tie %hash, 'DB_File', $filename, O_CREAT|O_RDWR, 0666, $DB_HASH
or die "Cannot open $filename: $!\n" ;

$db->filter_fetch_key ( sub { $_ = unpack("i", $_) } ) ;
$db->filter_store_key ( sub { $_ = pack ("i", $_) } ) ;
$hash{123} = "def" ;
# ... undef $db ;
untie %hash ;

This time only two filters have been used -- we only need to manipulate
the contents of the key, so it wasn't necessary to install any value
filters.

=head1 HINTS AND TIPS

=head2 Locking: The Trouble with fd

Until version 1.72 of this module, the recommended technique for locking
B<DB_File> databases was to flock the filehandle returned from the "fd"
function. Unfortunately this technique has been shown to be fundamentally
flawed (Kudos to David Harris for tracking this down). Use it at your own
peril!

The locking technique went like this.

$db = tie(%db, 'DB_File', 'foo.db', O_CREAT|O_RDWR, 0644)
   || die "dbcreat foo.db $!";
$fd = $db->fd;
open(DB_FH, "+<&=$fd") || die "dup $!";
flock (DB_FH, LOCK_EX) || die "flock: $!";
...
$db{"Tom"} = "Jerry" ;
...
flock(DB_FH, LOCK_UN);
undef $db;
untie %db;
close(DB_FH);

In simple terms, this is what happens:

=over 5
=item 1.

Use "tie" to open the database.

=item 2.

Lock the database with fd & flock.

=item 3.

Read & Write to the database.

=item 4.

Unlock and close the database.

=back

Here is the crux of the problem. A side-effect of opening the B<DB_File> database in step 2 is that an initial block from the database will get read from disk and cached in memory.

To see why this is a problem, consider what can happen when two processes, say "A" and "B", both want to update the same B<DB_File> database using the locking steps outlined above. Assume process "A" has already opened the database and has a write lock, but it hasn't actually updated the database yet (it has finished step 2, but not started step 3 yet). Now process "B" tries to open the same database - step 1 will succeed, but it will block on step 2 until process "A" releases the lock. The important thing to notice here is that at this point in time both processes will have cached identical initial blocks from the database.

Now process "A" updates the database and happens to change some of the data held in the initial buffer. Process "A" terminates, flushing all cached data to disk and releasing the database lock. At this point the database on disk will correctly reflect the changes made by process "A".

With the lock released, process "B" can now continue. It also updates the database and unfortunately it too modifies the data that was in its initial buffer. Once that data gets flushed to disk it will overwrite some/all of the changes process "A" made to the database.

The result of this scenario is at best a database that doesn't contain what you expect. At worst the database will corrupt.

The above won't happen every time competing process update the same B<DB_File> database, but it does illustrate why the technique should
not be used.

=head2 Safe ways to lock a database

Starting with version 2.x, Berkeley DB has internal support for locking. The companion module to this one, B<BerkeleyDB>, provides an interface to this locking functionality. If you are serious about locking Berkeley DB databases, I strongly recommend using B<BerkeleyDB>.

If using B<BerkeleyDB> isn't an option, there are a number of modules available on CPAN that can be used to implement locking. Each one implements locking differently and has different goals in mind. It is therefore worth knowing the difference, so that you can pick the right one for your application. Here are the three locking wrappers:

=over 5

=item B<Tie::DB_Lock>

A B<DB_File> wrapper which creates copies of the database file for read access, so that you have a kind of a multiversioning concurrent read system. However, updates are still serial. Use for databases where reads may be lengthy and consistency problems may occur.

=item B<Tie::DB_LockFile>

A B<DB_File> wrapper that has the ability to lock and unlock the database while it is being used. Avoids the tie-before-flock problem by simply re-tie-ing the database when you get or drop a lock. Because of the flexibility in dropping and re-acquiring the lock in the middle of a session, this can be massaged into a system that will work with long updates and/or reads if the application follows the hints in the POD documentation.

=item B<DB_File::Lock>

An extremely lightweight B<DB_File> wrapper that simply flocks a lockfile before tie-ing the database and drops the lock after the untie. Allows one to use the same lockfile for multiple databases to avoid deadlock problems, if desired. Use for databases where updates are reads are quick and simple flock locking semantics are enough.

=back

=head2 Sharing Databases With C Applications

There is no technical reason why a Berkeley DB database cannot be shared by both a Perl and a C application.
The vast majority of problems that are reported in this area boil down to the fact that C strings are NULL terminated, whilst Perl strings are not. See L<DBM FILTERS> for a generic way to work around this problem.

Here is a real example. Netscape 2.0 keeps a record of the locations you visit along with the time you last visited them in a DB_HASH database. This is usually stored in the file F<~/.netscape/history.db>. The key field in the database is the location string and the value field is the time the location was last visited stored as a 4 byte binary value.

If you haven't already guessed, the location string is stored with a terminating NULL. This means you need to be careful when accessing the database.

Here is a snippet of code that is loosely based on Tom Christiansen's I<ggh> script (available from your nearest CPAN archive in F<authors/id/TOMC/scripts/nshist.gz>).

```perl
use warnings ;
use strict ;
use DB_File ;
use Fcntl ;

$dotdir = $ENV{HOME} || $ENV{LOGNAME};
$HISTORY = "$dotdir/.netscape/history.db";
my ($dotdir, $HISTORY, %hist_db, $href, $binary_time, $date) ;
tie %hist_db, 'DB_File', $HISTORY
   or die "Cannot open $HISTORY: $!\n" ;;

$HISTORY = "$dotdir/.netscape/history.db";

# Dump the complete database
while ( ($href, $binary_time) = each %hist_db ) {

   # remove the terminating NULL
   $href =~ s/\x00$// ;

   # convert the binary time into a user friendly string
   $date = localtime unpack("V", $binary_time);
   print "$date $href\n" ;
}

# check for the existence of a specific key
# remember to add the NULL
if ( $binary_time = $hist_db{"http://mox.perl.com/\x00"} ) {
   $date = localtime unpack("V", $binary_time);
   print "Last visited mox.perl.com on $date\n" ;
}
```
else {
    print "Never visited mox.perl.com\n"
}

untie %hist_db;

=head2 The untie() Gotcha

If you make use of the Berkeley DB API, it is very strongly recommended that you read L<perltie/The untie Gotcha>.

Even if you don't currently make use of the API interface, it is still worth reading it.

Here is an example which illustrates the problem from a DB_File perspective:

use DB_File;
use Fcntl;

my %x;
my $X;

$X = tie %x, 'DB_File', 'tst.fil' , O_RDWR|O_TRUNC
    or die "Cannot tie first time: $!" ;

$x{123} = 456 ;

untie %x ;

tie %x, 'DB_File', 'tst.fil', O_RDWR|O_CREAT
    or die "Cannot tie second time: $!" ;

untie %x ;

When run, the script will produce this error message:

    Cannot tie second time: Invalid argument at bad.file line 14.

Although the error message above refers to the second tie() statement in the script, the source of the problem is really with the untie() statement that precedes it.

Having read L<perltie> you will probably have already guessed that the error is caused by the extra copy of the tied object stored in C<$X>.
If you haven't, then the problem boils down to the fact that the DB_File destructor, DESTROY, will not be called until I<all>
references to the tied object are destroyed. Both the tied variable, 
C<%x>, and C<$X> above hold a reference to the object. The call to 
untie() will destroy the first, but C<$X> still holds a valid 
reference, so the destrucor will not get called and the database file 
F<tst.fil> will remain open. The fact that Berkeley DB then reports the 
attempt to open a database that is already open via the catch-all 
"Invalid argument" doesn't help.

If you run the script with the C<-w> flag the error message becomes:

    untie attempted while 1 inner references still exist at bad.file line 12. 
    Cannot tie second time: Invalid argument at bad.file line 14.

which pinpoints the real problem. Finally the script can now be 
modified to fix the original problem by destroying the API object 
before the untie:

    ...
    $x{123} = 456 ;
    undef $X ;
    untie %x ;

    $X = tie %x, 'DB_File', 'tst.fil', O_RDWR|O_CREAT
    ...

=head2 COMMON QUESTIONS

=head2 Why is there Perl source in my database?

If you look at the contents of a database file created by DB_File, 
there can sometimes be part of a Perl script included in it.

This happens because Berkeley DB uses dynamic memory to allocate 
buffers which will subsequently be written to the database file. Being 
dynamic, the memory could have been used for anything before DB 
allocated it. As Berkeley DB doesn't clear the memory once it has been 
allocated, the unused portions will contain random junk. In the case 
where a Perl script gets written to the database, the random junk will 
correspond to an area of dynamic memory that happened to be used during 
the compilation of the script.

Unless you don't like the possibility of there being part of your Perl 
scripts embedded in a database file, this is nothing to worry about.

=head2 How do I store complex data structures with DB_File?
Although B<DB_File> cannot do this directly, there is a module which can layer transparently over B<DB_File> to accomplish this feat.

Check out the MLDBM module, available on CPAN in the directory F<modules/by-module/MLDBM>.

=head2 What does "wide character in subroutine entry" mean?

You will usually get this message if you are working with UTF-8 data and want to read/write it from/to a Berkeley DB database file.

The easiest way to deal with this issue is to use the pre-defined "utf8" B<DBM_Filter> (see L<DBM_Filter>) that was designed to deal with this situation.

The example below shows what you need if I<both> the key and value are expected to be in UTF-8.

```perl
use DB_File;
use DBM_Filter;

my $db = tie %h, 'DB_File', '/tmp/try.db', O_CREAT|O_RDWR, 0666, $DB_BTREE;
$db->Filter_Key_Push('utf8');
$db->Filter_Value_Push('utf8');

my $key = "\N{LATIN SMALL LETTER A WITH ACUTE}";
my $value = "\N{LATIN SMALL LETTER E WITH ACUTE}";
$h{ $key } = $value;
```

=head2 What does "Invalid Argument" mean?

You will get this error message when one of the parameters in the C<tie> call is wrong. Unfortunately there are quite a few parameters to get wrong, so it can be difficult to figure out which one it is.

Here are a couple of possibilities:

=over 5

=item 1.

Attempting to reopen a database without closing it.

=item 2.

Using the O_WRONLY flag.

=back
What does "Bareword 'DB_File' not allowed" mean?

You will encounter this particular error message when you have the `strict 'subs'` pragma (or the full `strict` pragma) in your script. Consider this script:

```perl
use warnings ;
use strict ;
use DB_File ;
my %x ;
tie %x, DB_File, "filename" ;
```

Running it produces the error in question:

```
Bareword "DB_File" not allowed while "strict subs" in use
```

To get around the error, place the word `DB_File` in either single or double quotes, like this:

```perl
tie %x, "DB_File", "filename" ;
```

Although it might seem like a real pain, it is really worth the effort of having a `use strict` in all your scripts.

REFERENCES

Articles that are either about `DB_File` or make use of it.

over 5

item 1.

I<Full-Text Searching in Perl>, Tim Kientzle (tkientzle@ddj.com),
Dr. Dobb's Journal, Issue 295, January 1999, pp 34-41

HISTORY

Moved to the Changes file.

BUGS

Some older versions of Berkeley DB had problems with fixed length records using the RECNO file format. This problem has been fixed since version 1.85 of Berkeley DB.
I am sure there are bugs in the code. If you do find any, or can suggest any enhancements, I would welcome your comments.

=head1 AVAILABILITY

B<DB_File> comes with the standard Perl source distribution. Look in the directory F<ext/DB_File>. Given the amount of time between releases of Perl the version that ships with Perl is quite likely to be out of date, so the most recent version can always be found on CPAN (see L<perlmodlib/CPAN> for details), in the directory F<modules/by-module/DB_File>.

This version of B<DB_File> will work with either version 1.x, 2.x or 3.x of Berkeley DB, but is limited to the functionality provided by version 1.

The official web site for Berkeley DB is F<http://www.oracle.com/technology/products/berkeley-db/db/index.html>. All versions of Berkeley DB are available there.

Alternatively, Berkeley DB version 1 is available at your nearest CPAN archive in F<src/misc/db.1.85.tar.gz>.

=head1 COPYRIGHT

Copyright (c) 1995-2016 Paul Marquess. All rights reserved. This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

Although B<DB_File> is covered by the Perl license, the library it makes use of, namely Berkeley DB, is not. Berkeley DB has its own copyright and its own license. Please take the time to read it.

Here are a few words taken from the Berkeley DB FAQ (at F<http://www.oracle.com/technology/products/berkeley-db/db/index.html>) regarding the license:

Do I have to license DB to use it in Perl scripts?

No. The Berkeley DB license requires that software that uses Berkeley DB be freely redistributable. In the case of Perl, that software is Perl, and not your scripts. Any Perl scripts that you write are your property, including scripts that make use of Berkeley DB. Neither the Perl license nor the Berkeley DB license place any restriction on what you may do with them.

If you are in any doubt about the license situation, contact either the Berkeley DB authors or the author of DB_File. See L<"AUTHOR"> for details.
SEE ALSO

L<perl>, L<dbopen(3)>, L<hash(3)>, L<recno(3)>, L<btree(3)>,
L<perldbmfiler>, L<DBM_Filter>

AUTHOR

The DB_File interface was written by Paul Marquess
E<lt>pmqs@cpan.orgE<gt>.

Found in path(s):
* /opt/cola/permits/1139282497_1614508072.77/0/perl-DB_File-1.842-1.el8-1.src.rpm-cosi-expand-archive-
OHUIHvY5/DB_File-1.842.tar.gz-cosi-expand-archive-uwdKKRe/DB_File-1.842/DB_File.pm
No license file was found, but licenses were detected in source scan.

/*

version.c -- Perl 5 interface to Berkeley DB

written by Paul Marquess <Paul.Marquess@btinternet.com>
last modified 2nd Jan 2002
version 1.802

All comments/suggestions/problems are welcome

    Copyright (c) 1995-2002 Paul Marquess. All rights reserved.
    This program is free software; you can redistribute it and/or
    modify it under the same terms as Perl itself.

Changes:
    1.71 - Support for Berkeley DB version 3.
Support for Berkeley DB 2/3's backward compatibility mode.
    1.72 - No change.
    1.73 - Added support for threading
    1.74 - Added Perl core patch 7801.

*/

Found in path(s):
* /opt/cola/permits/1139282497_1614508072.77/0/perl-DB_File-1.842-1.el8-1.src.rpm-cosi-expand-archive-
OHUIHvY5/DB_File-1.842.tar.gz-cosi-expand-archive-uwdKKRe/DB_File-1.842/DB_File.pm
No license file was found, but licenses were detected in source scan.

DB_File
IMPORTANT NOTICE

If you are using the locking technique described in older versions of DB_File, please read the section called "Locking: The Trouble with fd" in DB_File.pm immediately. The locking method has been found to be unsafe. You risk corrupting your data if you continue to use it.

DESCRIPTION

DB_File is a module which allows Perl programs to make use of the facilities provided by Berkeley DB version 1. (DB_File can be built version 2, or greater, of Berkeley DB, but it will only support the 1.x features).

If you want to make use of the new features available in Berkeley DB 2.x, or greater, use the Perl module BerkeleyDB instead.

Berkeley DB is a C library which provides a consistent interface to a number of database formats. DB_File provides an interface to all three of the database types (hash, btree and recno) currently supported by Berkeley DB.

For further details see the documentation included at the end of the file DB_File.pm.

PREREQUISITES

Before you can build DB_File you must have the following installed on your system:

* Perl 5.8.3 or greater.

* Berkeley DB.

The official web site for Berkeley DB is

The latest version of Berkeley DB is always available there. It is recommended that you use the most recent version available.

The one exception to this advice is where you want to use DB_File to access database files created by a third-party application, like Sendmail or Netscape. In these cases you must build DB_File with a compatible version of Berkeley DB.

If you want to use Berkeley DB 2.x, you must have version 2.3.4 or greater. If you want to use Berkeley DB 3.x or 4.x, any version will do. For Berkeley DB 1.x, use either version 1.85 or 1.86.

BUILDING THE MODULE
---------------------

Assuming you have met all the prerequisites, building the module should be relatively straightforward.

Step 1: If you are running either Solaris 2.5 or HP-UX 10 and want to use Berkeley DB version 2, 3 or 4, read either the Solaris Notes or HP-UX Notes sections below. If you are running Linux please read the Linux Notes section before proceeding.

Step 2: Edit the file config.in to suit your local installation. Instructions are given in the file.

Step 3: Build and test the module using this sequence of commands:

perl Makefile.PL
  make
  make test

NOTE:
If you have a very old version of Berkeley DB (i.e. pre 1.85), three of the tests in the recno test harness may fail (tests 51, 53 and 55). You can safely ignore the errors if you're never going to use the broken functionality (recno databases with a modified bval). Otherwise you'll have to upgrade your DB library.

INSTALLATION
----------
make install

UPDATES
========

The most recent version of DB_File is always available at

http://www.cpan.org/modules/by-module/DB_File/

TROUBLESHOOTING
================

Here are some of the common problems people encounter when building DB_File.

Missing db.h or libdb.a
-----------------------

If you get an error like this:

cc -c -I/usr/local/include -Dbool=char -DHAS_BOOL
-O2 -DVERSION="1.64" -DXS_VERSION="1.64" -fpic
-I/usr/local/lib/perl5/i586-linux/5.00404/CORE -DmDB_Prefix_t=size_t
-DmDB_Hash_t=u_int32_t DB_File.c
DB_File.xs:101: db.h: No such file or directory

or this:

LD_RUN_PATH="/lib" cc -o blib/arch/auto/DB_File/DB_File.so -shared
-L/usr/local/lib DB_File.o -L/usr/local/lib -ldb
id: cannot open -ldb: No such file or directory

This symptom can imply:

1. You don't have Berkeley DB installed on your system at all.
   Solution: get & install Berkeley DB.

2. You do have Berkeley DB installed, but it isn't in a standard place.
   Solution: Edit config.in and set the LIB and INCLUDE variables to point
to the directories where libdb.a and db.h are installed.

Undefined symbol db_version
-----------------------------
DB_File seems to have built correctly, but you get an error like this when you run the test harness:

```
$ make test
PERL_DL_NONLAZY=1 /usr/bin/perl5.00404 -I./blib/arch -I./blib/lib -I/usr/local/lib/perl5/i586-linux/5.00404 -I/usr/local/lib/perl5 -e 'use Test::Harness qw(&runtests $verbose); $verbose=0; runtests @ARGV;' t/*.t
```

This error usually happens when you have two version of Berkeley DB installed on your system -- specifically, if you have both version 1 and a newer version (i.e. version 2 or better) of Berkeley DB installed. If DB_File is built using the db.h for the newer Berkeley DB and the version 1 Berkeley DB library you will trigger this error. Unfortunately the two versions aren't compatible with each other. The undefined symbol error is caused because Berkeley DB version 1 doesn't have the symbol db_version.

Solution: Setting the LIB & INCLUDE variables in config.in to point to the correct directories can sometimes be enough to fix this problem. If that doesn't work the easiest way to fix the problem is to either delete or temporarily rename the copies of db.h and libdb.a that you don't want DB_File to use.

```
Undefined symbol dbopen
------------------------
```

DB_File seems to have built correctly, but you get an error like this when you run the test harness:

```
at t/db-btree.t line 23
Compilation failed in require at t/db-btree.t line 23.
```

This error usually happens when you have both version 1 and a more recent version of Berkeley DB installed on your system and DB_File attempts to build using the db.h for Berkeley DB version 1 and the newer version
library. Unfortunately the two versions aren't compatible with each other. The undefined symbol error is actually caused because versions of Berkeley DB newer than version 1 doesn't have the symbol dbopen.

Solution: Setting the LIB & INCLUDE variables in config.in to point to the correct directories can sometimes be enough to fix this problem. If that doesn't work the easiest way to fix the problem is to either delete or temporarily rename the copies of db.h and libdb.a that you don't want DB_File to use.

Incompatible versions of db.h and libdb
---------------------------------------

DB_File seems to have built correctly, but you get an error like this when you run the test harness:

$ make test
PERL_DL_NONLAZY=1 /home/paul/perl/install/bin/perl5.00560 -Ilib/arch -Ilib/lib -I/home/paul/perl/install/5.005_60/lib/5.00560/i586-linux -I/home/paul/perl/install/5.005_60/lib/5.00560 -e 'use Test::Harness qw(&runtests $verbose); $verbose=0; runtests @ARGV;' t/*.t
t/db-btree..........

DB_File was build with libdb version 2.3.7 but you are attempting to run it with libdb version 2.7.5
BEGIN failed--compilation aborted at t/db-btree.t line 21.
...

Another variation on the theme of having two versions of Berkeley DB on your system.

Solution: Setting the LIB & INCLUDE variables in config.in to point to the correct directories can sometimes be enough to fix this problem. If that doesn't work the easiest way to fix the problem is to either delete or temporarily rename the copies of db.h and libdb.a that you don't want BerkeleyDB to use. If you are running Linux, please read the Linux Notes section below.

Keep getting "At least one secondary cursor must be specified to DB->join"

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

When you either run the DB_File test harness, or attempt to run a script that uses DB_File you get the error message below.

   BDB0588 At least one secondary cursor must be specified to DB->join.

To date this issue has only been reported on Windows. If you encounter this
issue on another platform, please report the issue. See the FEEDBACK section for details.

This issue boils down to the size of the C type time_t.

The typical reason for getting this error is when running a 32-bit Perl (which will use a 32-bit time_t) along with a 32-bit Berkeley DB library. The key point is how Berkeley DB has been built. If it has been built with a newish version of Visual C++, time_t will default to 64-bit, even when the rest of the library has been built 32-bit. This means that Perl thinks time_t is 32-bit, but Berkeley DB thinks it is 64-bit.

More details of how the size of time_t in Windows is shown below (taken from http://msdn.microsoft.com/en-us/library/w4ddyt9h.aspx)

In versions of Visual C++ and Microsoft C/C++ before Visual C++ 2005, time_t was a long int (32 bits) and hence could not be used for dates past 3:14:07 January 19, 2038, UTC. time_t is now equivalent to __time64_t by default, but defining _USE_32BIT_TIME_T changes time_t to __time32_t and forces many time functions to call versions that take the 32-bit time_t.

When DB_File is built, it uses a Berkeley DB header file, called db.h. This file contains the definition of a number of key data structures used by Berkeley DB. Unfortunately one of those data structures includes a time_t. This is the root case for this issue. When you build DB_File, it assumes time_t is 32-bit, but the Berkeley DB library is expecting it to be 64-bit.

Solution:

There are a few options available.

1. Use a 64-bit Perl along with a 64-bit Berkeley DB.

2. Use a 32-bit Perl along with a 32-bit Berkeley DB where _USE_32BIT_TIME_T has been defined.

3. If you do need to interoperate with a Berkeley DB library that uses a time_t that is different from Perl you need to edit the file DB_File.xs and find these lines

   /* #define time_t __time64_t */
   /* #define time_t __time32_t */

If your Berkeley DB library uses a 64-bit time_t, uncomment the first line.
If your Berkeley DB library uses a 32-bit time_t, uncomment the second line.
You are running MacOS 10.13 (or possibly later), and the test DB_File test harness file db-hash.t fails like this

```
t/db-btree.t .. ok
t/db-hash.t ... Use of uninitialized value $value in string eq at t/db-hash.t line 224.
Use of uninitialized value $values[0] in string eq at t/db-hash.t line 224.
Use of uninitialized value $value in lc at t/db-hash.t line 224.
Use of uninitialized value $h{""} in string eq at t/db-hash.t line 243.
Use of uninitialized value in numeric eq (==) at t/db-hash.t line 252.
Use of uninitialized value in numeric eq (==) at t/db-hash.t line 252.
Use of uninitialized value in numeric eq (==) at t/db-hash.t line 252.
Use of uninitialized value in numeric eq (==) at t/db-hash.t line 252.
Use of uninitialized value in numeric eq (==) at t/db-hash.t line 252.
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Use of uninitialized value in numeric eq (==) at t/db-hash.t line 252.
Use of uninitialized value in numeric eq (==) at t/db-hash.t line 252.
Use of uninitialized value in numeric eq (==) at t/db-hash.t line 252.
Use of uninitialized value $foo[18] in join or string at t/db-hash.t line 261.
Use of uninitialized value $foo[36] in join or string at t/db-hash.t line 261.
Use of uninitialized value $foo[48] in join or string at t/db-hash.t line 261.
Use of uninitialized value $foo[58] in join or string at t/db-hash.t line 261.
Use of uninitialized value $foo[59] in join or string at t/db-hash.t line 261.
Use of uninitialized value $foo[60] in join or string at t/db-hash.t line 261.
Use of uninitialized value $foo[62] in join or string at t/db-hash.t line 261.
Use of uninitialized value $foo[63] in join or string at t/db-hash.t line 261.
Use of uninitialized value $foo[92] in join or string at t/db-hash.t line 261.
Use of uninitialized value $foo[114] in join or string at t/db-hash.t line 261.
Use of uninitialized value $foo[140] in join or string at t/db-hash.t line 261.
Use of uninitialized value $foo[187] in join or string at t/db-hash.t line 261.
Use of uninitialized value $foo[188] in join or string at t/db-hash.t line 261.
Use of uninitialized value $foo[189] in join or string at t/db-hash.t line 261.
t/db-hash.t ... 1/166 Use of uninitialized value $h{"Fred"} in string eq at t/db-hash.t line 572.
Use of uninitialized value $v in concatenation (.) or string at t/db-hash.t line 748.
t/db-hash.t ... Dubious, test returned 25 (wstat 6400, 0x1900)
Failed 76/166 subtests
t/db-recono.t .. ok
t/pod.t ...... ok
```

It appears that MacOS 10.13 has a copy of BerkeleyDB version 1 included in /usr/lib/system/libsystem_c.dylib. It is not clear why this isn't working with this module. The following ticket has been reported to Apple
https://discussions.apple.com/thread/8125401
Solution

It has been reported that this issue can be resolved by installing a separate version of the Berkeley DB library and configuring DB_File to use it.

One option is to use a prebuild version of Berkeley DB. One is available at MacPorts (https://www.macports.org/). Once you have MacPorts installed, run this

    sudo port install db48

To get DB_File to use this library edit config.in and change the values for the LIB and include variables as follows

    LIB        = /opt/local/lib/db48
    INCLUDE    = /opt/local/include/db48

Alternatively, set the two environment variables DB_FILE_LIB and DB_FILE_INCLUDE as follows

    export DB_FILE_LIB=/opt/local/lib/db48
    export DB_FILE_INCLUDE=/opt/local/include/db48

Now rebuild DB_File from scratch.

Solaris build fails with "language optional software package not installed"

If you are trying to build this module under Solaris and you get an error message like this

    /usr/ucb/cc: language optional software package not installed

it means that Perl cannot find the C compiler on your system. The cryptic message is just Sun's way of telling you that you haven't bought their C compiler.

When you build a Perl module that needs a C compiler, the Perl build system tries to use the same C compiler that was used to build perl itself. In this case your Perl binary was built with a C compiler that lived in /usr/ucb.

To continue with building this module, you need to get a C compiler, or tell Perl where your C compiler is, if you already have one.
Assuming you have now got a C compiler, what you do next will be dependant on what C compiler you have installed. If you have just installed Sun's C compiler, you shouldn't have to do anything. Just try rebuilding this module.

If you have installed another C compiler, say gcc, you have to tell perl how to use it instead of /usr/ucb/cc.

This set of options seems to work if you want to use gcc. Your mileage may vary.

perl Makefile.PL CC=gcc CCCDLFLAGS=-fPIC OPTIMIZE=" "
make test

If that doesn't work for you, it's time to make changes to the Makefile by hand. Good luck!

Solaris build fails with "gcc: unrecognized option `^-KPIC'"
-----------------------------------------------------------

You are running Solaris and you get an error like this when you try to build this Perl module

    gcc: unrecognized option `^-KPIC'

This symptom usually means that you are using a Perl binary that has been built with the Sun C compiler, but you are using gcc to build this module.

When Perl builds modules that need a C compiler, it will attempt to use the same C compiler and command line options that was used to build perl itself. In this case `-^KPIC` is a valid option for the Sun C compiler, but not for gcc. The equivalent option for gcc is `^-fPIC`.

The solution is either:

1. Build both Perl and this module with the same C compiler, either by using the Sun C compiler for both or gcc for both.

2. Try generating the Makefile for this module like this perl

    perl Makefile.PL CC=gcc CCCDLFLAGS=-fPIC OPTIMIZE=" " LD=gcc
make test

This second option seems to work when mixing a Perl binary built with the Sun C compiler and this module built with gcc. Your mileage may vary.
Linux Notes
--------

Some older versions of Linux (e.g. RedHat 6, SuSe 6) ship with a C library that has version 2.x of Berkeley DB linked into it. This makes it difficult to build this module with anything other than the version of Berkeley DB that shipped with your Linux release. If you do try to use a different version of Berkeley DB you will most likely get the error described in the "Incompatible versions of db.h and libdb" section of this file.

To make matters worse, prior to Perl 5.6.1, the perl binary itself *always* included the Berkeley DB library.

If you want to use a newer version of Berkeley DB with this module, the easiest solution is to use Perl 5.6.1 (or better) and Berkeley DB 3.x (or better).

There are two approaches you can use to get older versions of Perl to work with specific versions of Berkeley DB. Both have their advantages and disadvantages.

The first approach will only work when you want to build a version of Perl older than 5.6.1 along with Berkeley DB 3.x. If you want to use Berkeley DB 2.x, you must use the next approach. This approach involves rebuilding your existing version of Perl after applying an unofficial patch. The "patches" directory in the this module's source distribution contains a number of patch files. There is one patch file for every stable version of Perl since 5.004. Apply the appropriate patch to your Perl source tree before re-building and installing Perl from scratch. For example, assuming you are in the top-level source directory for Perl 5.6.0, the command below will apply the necessary patch. Remember to replace the path shown below with one that points to this module's patches directory.

    patch -p1 -N </path/to/DB_File/patches/5.6.0

Now rebuild & install perl. You should now have a perl binary that can be used to build this module. Follow the instructions in "BUILDING THE MODULE", remembering to set the INCLUDE and LIB variables in config.in.

The second approach will work with both Berkeley DB 2.x and 3.x. Start by building Berkeley DB as a shared library. This is from
Building Shared Libraries for the GNU GCC compiler

If you're using gcc and there's no better shared library example for your architecture, the following shared library build procedure will probably work.

Add the -fpic option to the CFLAGS value in the Makefile.

Rebuild all of your .o files. This will create a Berkeley DB library that contains .o files with PIC code. To build the shared library, then take the following steps in the library build directory:

```
% mkdir tmp
% cd tmp
% ar xv ../libdb.a
% gcc -shared -o libdb.so *.o
% mv libdb.so ..
% cd ..
% rm -rf tmp
```

Note, you may have to change the gcc line depending on the requirements of your system.

The file libdb.so is your shared library.

Once you have built libdb.so, you will need to store it somewhere safe.

```
cp libdb.so /usr/local/BerkeleyDB/lib
```

If you now set the LD_PRELOAD environment variable to point to this shared library, Perl will use it instead of the version of Berkeley DB that shipped with your Linux distribution.

```
export LD_PRELOAD=/usr/local/BerkeleyDB/lib/libdb.so
```

Finally follow the instructions in "BUILDING THE MODULE" to build, test and install this module. Don't forget to set the INCLUDE and LIB variables in config.in.

Remember, you will need to have the LD_PRELOAD variable set anytime you want to use Perl with Berkeley DB. Also note that if you have LD_PRELOAD permanently set it will affect ALL commands you execute. This may be a problem if you run any commands that access a database created by the version of Berkeley DB that shipped with your Linux distribution.
Solaris Notes
-------------

If you are running Solaris 2.5, and you get this error when you run the DB_File test harness:

    libc internal error: _rmutex_unlock: rmutex not held.

you probably need to install a Sun patch. It has been reported that Sun patch 103187-25 (or later revisions) fixes this problem.

To find out if you have the patch installed, the command "showrev -p" will display the patches that are currently installed on your system.

HP-UX 10 Notes
-------------

Some people running HP-UX 10 have reported getting an error like this when building DB_File with the native HP-UX compiler.

    ld: (Warning) At least one PA 2.0 object file (DB_File.o) was detected.
    The linked output may not run on a PA 1.x system.
    ld: Invalid loader fixup for symbol "$000000A5".

If this is the case for you, Berkeley DB needs to be recompiled with the +z or +Z option and the resulting library placed in a .sl file. The following steps should do the trick:

1: Configure the Berkeley DB distribution with the +z or +Z compiler flag:

    env "CFLAGS=+z" ../dist/configure ...

2: Edit the Berkeley DB Makefile and change:

    "libdb= libdb.a" to "libdb= libdb.sl".

3: Build and install the Berkeley DB distribution as usual.

HP-UX 11 Notes
-------------

Some people running the combination of HP-UX 11 and Berkeley DB 2.7.7 have reported getting this error when the run the test harness for DB_File
lib/db-btree........Can't call method "DELETE" on an undefined value at lib/db-btree.t line 216.
FAILED at test 26
lib/db-hash.........Can't call method "DELETE" on an undefined value at lib/db-hash.t line 183.
FAILED at test 22
...

The fix for this is to rebuild and install Berkeley DB with the bigfile option disabled.

AIX NOTES
---------

I've had reports of a build failure like this on AIX 5.2 using the xIC compiler.

    rm -f blib/arch/auto/DB_File/DB_File.so
    -L/usr/local/lib version.o DB_File.o -o blib/arch/auto/DB_File/DB_File.so
    -L/usr/local/BerkeleyDB/lib -ldb -lthread
    ld: 0711-317 ERROR: Undefined symbol: .mutex_lock
    ld: 0711-317 ERROR: Undefined symbol: .cond_signal
    ld: 0711-317 ERROR: Undefined symbol: .mutex_unlock
    ld: 0711-317 ERROR: Undefined symbol: .mutex_trylock
    ld: 0711-317 ERROR: Undefined symbol: .cond_wait
    ld: 0711-317 ERROR: Undefined symbol: .mutex_init
    ld: 0711-317 ERROR: Undefined symbol: .cond_init
    ld: 0711-317 ERROR: Undefined symbol: .mutex_destroy
    ld: 0711-345 Use the -bloadmap or -bnoquiet option to obtain more information.
make: 1254-004 The error code from the last command is 8.

Editing Makefile.PL, and changing the line

    $LIBS .= " -lthread" if $^O eq 'aix' ;

to this

    $LIBS .= " -lthread" if $^O eq 'aix' ;

fixed the problem.

FEEDBACK
========

General feedback/questions/bug reports can be sent to me at pmqs@cpan.org.
Alternatively, if you have Usenet access, you can try the comp.databases.berkeley-db or comp.lang.perl.modules groups.

How to report a problem with DB_File.

When reporting any problem, I need the information requested below.

1. The *complete* output from running this

   perl -V

   Do not edit the output in any way.
   Note, I want you to run "perl -V" and NOT "perl -v".

   If your perl does not understand the ".-V" option it is too old. DB_File needs Perl version 5.00405 or better.

2. The version of DB_File you have.
   If you have successfully installed DB_File, this one-liner will tell you:

   perl -e 'use DB_File; print qq{DB_File ver $DB_File::VERSION\n}’

   If you are running windows use this

   perl -e "use DB_File; print qq{DB_File ver $DB_File::VERSION\n}" 

   If you haven't installed DB_File then search DB_File.pm for a line like this:

   $VERSION = "1.20" ;

3. The version of Berkeley DB used to build DB_File and the version that is used at runtime. (These are usually the same)

   If you are using a version older than 1.85, think about upgrading. One point to note if you are considering upgrading Berkeley DB - the file formats for 1.85, 1.86, 2.0, 3.0 & 3.1 are all different.

   If you have successfully installed DB_File, these commands will display the versions I need

   perl -MDB_File -e 'print qq{Built with Berkeley DB ver $DB_File::db\n}’
   perl -MDB_File -e 'print qq{Running with Berkeley DB ver $DB_File::db_version\n}’
If you are running windows use this

    perl -e "use DB_File; print qq{Built with Berkeley DB ver $DB_File::db_ver\n}"  
    perl -e "use DB_File; print qq{Running Berkeley DB ver $DB_File::db_version\n}"

4. A copy the file config.in from the DB_File main source directory.

5. A listing of directories where Berkeley DB is installed.
   For example, if Berkeley DB is installed in /usr/BerkeleDB/lib and 
   /usr/BerkeleyDB/include, I need the output from running this

    ls -l /usr/BerkeleyDB/lib 
    ls -l /usr/BerkeleyDB/include

6. If you are having problems building DB_File, send me a complete log 
   of what happened. Start by unpacking the DB_File module into a fresh 
   directory and keep a log of all the steps

   [edit config.in, if necessary] 
   perl Makefile.PL 
   make 
   make test TEST_VERBOSE=1

7. Now the difficult one. If you think you have found a bug in DB_File 
   and you want me to fix it, you will *greatly* enhance the chances 
   of me being able to track it down by sending me a small 
   self-contained Perl script that illustrates the problem you are 
   encountering. Include a summary of what you think the problem is 
   and a log of what happens when you run the script, in case I can't 
   reproduce your problem on my system. If possible, don't have the 
   script dependent on an existing 20Meg database. If the script you 
   send me can create the database itself then that is preferred.

I realise that in some cases this is easier said than done, so if 
you can only reproduce the problem in your existing script, then 
you can post me that if you want. Just don't expect me to find your 
problem in a hurry, or at all. :-)

CHANGES
-------

See the Changes file.

Paul Marquess <pmqs@cpan.org>

Found in path(s):
* /opt/cola/permits/1139282497_1614508072.77/0/perl-DB_File-1.842-1.el8-1.src.rpm-cosi-expand-archive-
1.1205 sqlite 3.25.2
1.1205.1 Available under license:

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1.1206 packaging 20.9
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1.1218 spring-boot-starter-logging

2.2.6.RELEASE

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068412355_1594388759.03/0/spring-boot-starter-logging-2-2-6-release-sources.jar/META-INF/maven/org.springframework.boot/spring-boot-starter-logging/pom.xml

1.1219 soheilhy-cmux v0.1.4

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1.1220 jsonpatch 1.2
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1.1221 robfig-cron 3-3.0

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* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-
  jar/org/antlr/v4/runtime/InterpreterRuleContext.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-
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* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-
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  jar/org/antlr/v4/runtime/tree/pattern/ParseTreePattern.java

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  jar/org/antlr/v4/runtime/atan/ATNSerializer.java
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  jar/org/antlr/v4/runtime/atan/PlusLoopbackState.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-
  jar/org/antlr/v4/runtime/TokenStream.java
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  jar/org/antlr/v4/runtime/RuntimeMessage.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-
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  jar/org/antlr/v4/runtime/atan/ParserATNSimulator.java
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  jar/org/antlr/v4/runtime/CommonTokenFactory.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-
  jar/org/antlr/v4/runtime/CommonTokenStream.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-
  jar/org/antlr/v4/runtime/misc/IntervalSet.java
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* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/ANTLRErrorListener.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/BaseErrorListener.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/ATNDeserializer.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/atn/LexerPushModeAction.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/atn/ATNDeserializationOptions.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/atn/ProfilingATNSimulator.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/atn/ATNDeserializer.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/atn/LexerPushModeAction.java
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* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4.5.1-sources-
  jar/org/antlr/v4/runtime/atn/ContextSensitivityInfo.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4.5.1-sources-
  jar/org/antlr/v4/runtime/atn/ParseInfo.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4.5.1-sources-
  jar/org/antlr/v4/runtime/atn/AmbiguityInfo.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4.5.1-sources-
  jar/org/antlr/v4/runtime/atn/DecisionEventInfo.java
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  jar/org/antlr/v4/runtime/RuntimeMetaData.java
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  jar/org/antlr/v4/runtime/atn/LookaheadEventInfo.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4.5.1-sources-
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  jar/org/antlr/v4/runtime/VocabularyImpl.java
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package spec

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

  assertSerializeJSON(t, license, licenseJSON)
  assertParsesJSON(t, licenseJSON, license)
}
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// limitations under the License.

package spec

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

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You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software
Also add information on how to contact you by electronic and paper mail.

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

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

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

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

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

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

That's all there is to it!

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The Artistic License

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   b) accompany the distribution with the machine-readable source of the Package with your modifications.

   c) accompany any non-standard executables with their corresponding Standard Version executables, giving the non-standard executables non-standard names, and clearly documenting the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

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The End
1.1238.1 Available under license:

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

/*
---------------------------------------------------------------------

ppport.h -- Perl/Pollution/Portability Version 3.19_02

Automatically created by Devel::PPPort running under perl 5.012000.

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

=head1 COMPATIBILITY

This version of F<pport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.11.5.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<pport.h>.

=head2 --patch=I<file>

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

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

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

=head2 --diff=I<program>

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

=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 `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 `ppport.h` and below which version of Perl they probably won't be available or work.

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

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

=head1 DESCRIPTION

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

=over 4

=item *

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

perl 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>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>newSVpn_flags()</td>
<td>NEED_newSVpn_flags</td>
<td>NEED_newSVpn_flags_GLOBAL</td>
</tr>
<tr>
<td>newSVpn_share()</td>
<td>NEED_newSVpn_share</td>
<td>NEED_newSVpn_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>
</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
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
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.

=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.

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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_02;

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

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

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

eval {
  require Getopt::Long;
  Getopt::Long::GetOptions($%opt, qw(  
    help quiet diag! filter! hints! changes! cplusplus strip version  
    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;
my $opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
else {
$opt{'compat-version'} = 5;
}

%API = map { /^\w+|[^|]*\|[^|]*\|[^|]*\$/? ($1 => {
    ($2                ? ( base => $2 ) : ()),
    ($3                ? ( todo => $3 ) : ()),
    (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
    (index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
    (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ())
}) : die "invalid spec: $_" } qw(
    AvFILLp|5.004050||
    AvFILL||
    CLASS||n
    CPERLscope|5.005000||p
    CX_CURPAD_SAVE||
    CX_CURPAD SV||
    CopFILEAV|5.006000||p
    CopFILEGV_set|5.006000||p
    CopFILEGV|5.006000||p
    CopFILESV|5.006000||p
    CopFILE_set|5.006000||p
    CopFILE|5.006000||p
    CopSTASHPV_set|5.006000||p
    CopSTASHPV|5.006000||p
    CopSTASH_eq|5.006000||p
    CopSTASH_set|5.006000||p
    CopSTASH|5.006000||p
    CopyD|5.009002||p
    Copy||
    CvPADLIST||
    CvSTASH||
    CvWEAKOUTSIDE||
    DEFSV set|5.010001||p
    DEFSV|5.004050||p
    END_EXTERN C|5.005000||p
    ENTER||
    ERRSV|5.004050||p
    EXTEND||
    EXTERN C|5.005000||p
    F0convert||n
    FREETMPS||
    GIMME_V|5.004000||n
    GIMME||n

GROK_NUMERIC_RADIX
G_ARRAY
G_DISCARD
G_EVAL
G_METHOD
G_NOARGS
G_SCALAR
G_VOID
GetVars
GvSVn
GvSV
Gv_AMupdate
HEf_SVKEY
HeHASH
HeKEY
HeKLEN
HePV
HeSVKEY_force
HeSVKEY_set
HeSVKEY
HeUTF8
HeVAL
HvNAMELEN_get
HvNAME_get
HvNAME
INT2PTR
IN_LOCALE_COMPILETIME
IN_LOCALE_RUNTIME
IN_LOCALE
IN_PERL_COMPILETIME
IS_NUMBER_GREATER_THAN_UV_MAX
IS_NUMBER_INFINITY
IS_NUMBER_IN_UV
IS_NUMBER_NAN
IS_NUMBER_NEG
IS_NUMBER_NOT_INT
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IVTYPE
IVdf
LEAVE
LVRET
MARK
MULTICALL
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MY_CXT_INIT
MY_CXT
MoveD
Move
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NVTYPE[5.006000]
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NVrf[5.006001]
NVgf[5.006001]
Newxc[5.009003]
Newxz[5.009003]
Newx[5.009003]
Nullav
Nullch
Nullcv
Nullhv
Nullsv
ORIGMARK
PAD_BASE_SV
PAD_CLONE_VARS
PAD_COMPNAME_FLAGS
PAD_COMPNAME_GEN_set
PAD_COMPNAME_GEN
PAD_COMPNAME_OURSTASH
PAD_COMPNAME_PV
PAD_COMPNAME_TYPE
PAD_DUP
PAD_RESTORE_LOCAL
PAD_SAVE_LOCAL
PAD_SAVE_SETNULLPAD
PAD_SETSV
PAD_SET_CUR_NOSAVE
PAD_SET_CUR
PAD_SV
PERLIO_FUNCS_CAST[5.009003]
PERLIO_FUNCS_DECL[5.009003]
PERL_ABS[5.008001]
PERL_BCDVERSION[5.011004]
PERL_GCC_BRACE_GROUPS_FORBIDDEN[5.008001]
PERL_HASH[5.004000]
PERL_INT_MAX[5.004000]
PERL_INT_MIN[5.004000]
PERL_LONG_MAX[5.004000]
PERL_LONG_MIN[5.004000]
PERL_MAGIC_arylen[5.007002]
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PERL_MAGIC_collxfrm[5.007002]
PERL_MAGIC_dbfile[5.007002]
PERL_MAGIC_dbline[5.007002]
PERL_MAGIC_deelem|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|5.011004||p
PERL_MAGIC_isaelem|5.007002||p
PERL_MAGIC_isa|5.007002||p
PERL_MAGIC_mutex|5.011004||p
PERL_MAGIC_nkeys|5.007002||p
PERL_MAGIC_overload_elem|5.007002||p
PERL_MAGIC_overload_table|5.007002||p
PERL_MAGIC_overload|5.007002||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_tiedscalar|5.007002||p
PERL_MAGIC_tied|5.007002||p
PERL_MAGIC_tiedscalar|5.007002||p
PERL_MAGIC_ut8|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_REGPROP|5.009004||p
PERL_PV_ESCAPE_UNI_DETECT|5.009004||p
PERL_PV_ESCAPE_UNI|5.009004||p
PERL_PV_PRETTY_DUMP|5.009004||p
PERL_PV_PRETTY_ELLIPSES|5.010000||p
PERL_PV_PRETTY_LTGT|5.009004||p
PERL_PV_PRETTY_NOCLEAR|5.010000||p
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sv_putf8n|5.006000|
sv_putf8|5.006000|
sv_pv|5.006000|
sv_recode_to_utf8|5.007003|
sv_reftype||
sv_release_COW||
sv_replace||
sv_report_used||
sv_reset||
sv_rweaken|5.006000|
sv_setiv_mg|5.004050||p

sv_setiv||
sv_setnv_mg|5.006000||p
sv_setnv||
sv_setpvn_mg|5.004050||p
sv_setpvn|5.004050||p
sv_setref_uv_mg|5.004050||p
sv_setpu_mg|5.004050||p
sv_setpvf_mg_nocontext||pvn
sv_setpvf_mg|5.006000|5.004000|pv
sv_setpvf_nocontext||vn
sv_setpvf|5.004000|v
sv_setpv|5.004000|v
sv_setpvf_nocontext||vn
sv_setsv_cow||
sv_setsv_flags|5.007002|
sv_setsv_mg|5.004050||p
sv_setsv_nomg|5.007002||p
sv_setsv||
sv_setuv_mg|5.004050||p
sv_setuv|5.004000||p
sv_tainted|5.004000|
sv_taint|5.004000|
sv_true|5.005000|
sv_unglob||
sv_uni_display|5.007003|
sv_unmagic||
sv_unref_flags|5.007001|
sv_unref||
sv_untaint|5.004000|
sv_upgrade||
sv_usepvn_flags|5.009004|
sv_usepvn_mg|5.004050||p
sv_usepvn||
sv_utf8_decode|5.006000|
sv_utf8_downgrade|5.006000|
sv_utf8_encode|5.006000|
sv_utf8_upgrade_flags_grow|5.011000|
sv_utf8_upgrade_flags|5.007002|
sv_utf8_upgrade_nomg|5.007002|
sv_utf8_upgrade|5.007001|
sv_uv|5.005000||p
sv_vcatpvf_mg|5.006000|5.004000|p
sv_vcatpvfn|5.004000|
sv_vcatpvf|5.006000|5.004000|p
sv_vsetpvf_mg|5.006000|5.004000|p
sv_vsetpvfn|5.004000|
sv_vsetpvf|5.006000|5.004000|p
sv_xmlpeek||
svtype||
swallow_bom||
swash_fetch|5.007002|
swash_get||
swash_init|5.006000|
sys_init|5.010000|n
sys_init3|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 |5.006000|
to Uni_lower|5.007003|
to Uni_title |5.006000|
to Uni_title|5.007003|
to Uni_upper |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||
unlnk||
unpack_rec||
unpack_str[5.007003]
unpackstring[5.008001]
unshare_hek_or_pvn||
unshare_hek||
unsharepvn[5.004000]
unwind_handler_stack||
update_debugger_info||
upg_version[5.009005]
usage||
utf16_textfilter||
utf16_to_utf8_reversed[5.006001]
utf16_to_utf8[5.006001]
utf8_distance[5.006000]
utf8_hop[5.006000]
utf8_length[5.007001]
utf8_mg_pos_cache_update||
utf8_to_bytes[5.006001]
utf8_to_uvchr[5.007001]
utf8_to_uvuni[5.007001]
utf8n_to_uvchr||
utf8n_to_uvuni[5.007001]
utilize||
uvchr_to_utf8_flags[5.007003]
uvchr_to_utf8||
uvuni_to_utf8_flags[5.007003]
uvuni_to_utf8[5.007001]
validate_suid||
varname||
vcmp[5.009000]
vicroak[5.006000]
vdeb[5.007003]
vdie_common||
vdie_croak_common||
vdie||
vform[5.006000]
visit||
vivify_defelem||
vivify_ref||
vload_module[5.006000]p
if (exists $opt{'list-unsupported'}) {
  my $f;
  for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $API{$f}{todo};
    print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
  }
  exit 0;
}

# Scan for possible replacement candidates

my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($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;

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

if (exists $opt{'api-info'}) {
  my $f;
  my $count = 0;
  my $match = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "^Q\$opt\{'api-info'\}\EN\$";
  for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $f =~ /$match/;
    print "=== $f ===

";
    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.
";
      $info++;
    }
    if ($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 "$hints{$f}"
  }
} else {
  $function->[1] = 

print "\nWARNING: $warnings{$f}" if exists $warnings{$f};
$info++;
}
print "No portability information available.\n" unless $info;
$count++;
}
$count or print "Found no API matching '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 ? ['
      if exists $flags
    }
print "$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 {
  my $files = 

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{

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$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^\$\S+$include\[^
\]+\b\Q$ppport\E\b[^
\]*
{ defined $2 and push @ccom, $2;
  defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;

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 $c =~ /AbPerl_$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 ($c =~ /^\$\S+$define\$\S+$define\S+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
  if (exists $need{$2}) {
    $file{defined $3 ? 'needed_global' : 'needed_static'}->{$2}++;
  }
}
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");
my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;
for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {
unless ($API{$func}{nothxarg}) {
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;

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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/$func\b/$replace{$func}/g);
}

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

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

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

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

if ($file{needs_inc_ppport}) {
    my $pp = "",
    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}[$func];
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : "",
        unless (exists $file{needed_$type}[$func]) {
            if ($type eq 'global') {
                diag("Files [ @{$global{needs}[$func]} ] need $func, adding global request");
            } else {
                diag("File needs $func, adding static request");
            }
            $pp .= "\$define NEED_$func$suffix\n";
        }
    }
    if ($pp && ($c =~ s/^(?=$HS+\$HS+define\$HS+NEED_\w+)/\$pp/m)) {
        $pp = "",
        $file{changes}++;
    }
    unless ($file{has_inc_ppport}) {
        diag("Needs to include '$ppport'");
        $pp = qq(#include "$ppport\n")
    }
}
if ($pp) {
    $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*\'^/\1$pp/sm)
        || ($c =~ s/^(?!=$HS*#$HS*include.*\Q$ppportE/$pp/m)
        || ($c =~ s/^($HS*#$HS*include.*\Q$ppportE.*\s*/$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$ppportE.*?$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: $!");
  }
}
}
else if (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 $suf = 'aaa';
    my $diff = "";
    local *F;

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

    if (open F, ">$tmp") {
        print F $str;
        close F;
    }
}
if (open F, "$prog $file $tmp |") {
    while (<F>) {
        s/$tmp/\$file.patched/;
        $diff .= $_;
    }
    close F;
    unlink $tmp;
    return $diff;
}

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

return undef;
}

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

sub parse_version {
    my $ver = shift;

    if ($ver =~ /^\d+\.(\d+)(\d+)/) {
        return ($1, $2, $3);
    }
    elsif ($ver !~ /^[\d+].*$/) {
        die "cannot parse version '$ver\n";
    }

    $ver =~ s/_//g;
    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\d+\.(\d{3})(\d{3})/;
    $v = int $v;
    $s = int $s;
if ($r < 5 || ($r == 5 && $v < 6)) {
  if ($s % 10) {
    die "cannot parse version \$ver\n";
  }
}

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

sub format_version
{
  my $ver = shift;

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

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

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

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

    return $ver;
  }

  return sprintf "%d.%d.%d", $r, $v, $s;
}

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

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

sub warning
{
$opt{quiet} and return;
print "*** ", @_, "\n";
}
sub error
{
print "*** ERROR: ", @_, "\n";
}
my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
my $warn = $warnings{$func};
$warn =~ s!^!*** !mg;
print "*** WARNING: $func\n", $warn;
$rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;
print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE
exit 2;
}

Open Source Used In APIC-SE-BATMAN 2.1.1d 13214


sub strip
{
    my $self = do { local(@ARGV,$/)=($0); <> };
    my($copy) = $self =~ /=head\d\s+COPYRIGHT\s*\^\.(\*\?)\^\=\w+\ms;
    $copy =~ s/^(?=$\+)/ /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
/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
";
    exit 0;
}

__DATA__
*/
version 0.9924
==================================
Object oriented versions for all Perl releases from 5.6.2 onward. Replaces the core version code for all Perl releases from 5.10.0 onwards.

Although this code has been fully integrated into the latest Perl release itself (e.g. bleadperl), the CPAN release is considered upstream. The source code itself is available from:

https://github.com/JohnPeacock/version.pm.git

and a bug queue here:


Patches welcomed.

IMPORTANT NOTE - 0.9906 is the last release that fully supports Perl releases prior to 5.6.2. It is just too much trouble to continue to fight to maintain full backward compatibility.

YOU SHOULD INSTALL THIS RELEASE WHEN USING VERSION OBJECTS IN PERL 5.10.0. There was a bug caused by objects serialized by YAML that will cause Perl 5.10.0 to segfault. As long as some module calls 'use version', then the replacement code will take effect and Perl will not crash.

Please read the POD documentation for usage/details. See the CHANGES file for full details of all changes to the module behavior.

INSTALLATION

To install this module type the following:

$ perl Makefile.PL
$ make
$ make test
# make install

This release includes an optional pure Perl implementation (in case you don't have a C-compiler or if some reason you want your code to be much slower). You can test it by replacing the first line above with:
$ perl Makefile.PL --perl_only

and it will install the Perl only version.

DEPENDENCIES

The same C compiler used to build Perl (or not).

COPYRIGHT AND LICENCE

This module can be distributed under the same terms as Perl.

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Found in path(s):
* /opt/cola/permits/1125845412_1611461012.39/0/perl-version-0.99.24-1.el8-1.src.rpm-cosi-expand-archive-7Oca4SMD/version-0.9924.tar.gz-cosi-expand-archive-xfIW0bmC/version-0.9924/README
No license file was found, but licenses were detected in source scan.

---
abstract: 'Structured version objects'
author:
  - 'John Peacock <jpeacock@cpan.org>'
build_requires:
  ExtUtils::MakeMaker: '0'
  File::Temp: '0.13'
  Test::More: '0.45'
  parent: '0.221'
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: version
no_index:
directory:
  - t
  - inc
package:
  - charstar
requires:
  perl: '5.006002'
resources:
version::Internals - Perl extension for Version Objects

Overloaded version objects for all modern versions of Perl. This documents the internal data representation and underlying code for version.pm. See F<version.pod> for daily usage. This document is only useful for users interested in the gory details.

WHAT IS A VERSION?

For the purposes of this module, a version "number" is a sequence of positive integer values separated by one or more decimal points and optionally a single underscore. This corresponds to what Perl itself uses for a version, as well as extending the "version as number" that is discussed in the various editions of the Camel book.

There are actually two distinct kinds of version objects:

Decimal versions

Any version which "looks like a number", see L<Decimal Versions>. This also includes versions with a single decimal point and a single embedded underscore, see L<Alpha Versions>, even though these must be quoted to preserve the underscore formatting.

Dotted-Decimal versions

Also referred to as "Dotted-Integer", these contains more than one decimal point and may have an optional embedded underscore, see L<Dotted-Decimal Versions>. This is what is commonly used in most open source software as the "external" version (the one used as part of the tag or tarfile name). A leading 'v' character is now required and will warn if it missing.
Both of these methods will produce similar version objects, in that the default stringification will yield the version \texttt{L<Normal Form>} only if required:

\begin{verbatim}
$v = version->new(1.002); # 1.002, but compares like 1.2.0
$v = version->new(1.002003); # 1.002003
$v2 = version->new("v1.2.3"); # v1.2.3
\end{verbatim}

In specific, version numbers initialized as \texttt{L<Decimal Versions>} will stringify as they were originally created (i.e. the same string that was passed to \texttt{C<new>}). Version numbers initialized as \texttt{L<Dotted-Decimal Versions>} will be stringified as \texttt{L<Normal Form>}. \section{Decimal Versions}

These correspond to historical versions of Perl itself prior to 5.6.0, as well as all other modules which follow the Camel rules for the $\texttt{VERSION}$ scalar. A Decimal version is initialized with what looks like a floating point number. Leading zeros \texttt{B<are>} significant and trailing zeros are implied so that a minimum of three places is maintained between subversions. What this means is that any subversion (digits to the right of the decimal place) that contains less than three digits will have trailing zeros added to make up the difference, but only for purposes of comparison with other version objects. For example:

\begin{verbatim}
# Prints      Equivalent to
$v = version->new( 1.2); # 1.2 v1.200.0
$v = version->new( 1.02); # 1.02 v1.20.0
$v = version->new( 1.002); # 1.002 v1.2.0
$v = version->new( 1.0023); # 1.0023 v1.2.300
$v = version->new( 1.00203); # 1.00203 v1.2.30
$v = version->new( 1.002003); # 1.002003 v1.2.3
\end{verbatim}

All of the preceding examples are true whether or not the input value is quoted. The important feature is that the input value contains only a single decimal. See also \texttt{L<Alpha Versions>}.

\textbf{IMPORTANT NOTE}: As shown above, if your Decimal version contains more than 3 significant digits after the decimal place, it will be split on each multiple of 3, so 1.0003 is equivalent to v1.0.300, due to the need to remain compatible with Perl's own 5.005_03 == 5.5.30 interpretation. Any trailing zeros are ignored for mathematical comparison purposes.

\section{Dotted-Decimal Versions}

These are the newest form of versions, and correspond to Perl's own
version style beginning with 5.6.0. Starting with Perl 5.10.0, and most likely Perl 6, this is likely to be the preferred form. This method normally requires that the input parameter be quoted, although Perl's after 5.8.1 can use v-strings as a special form of quoting, but this is highly discouraged.

Unlike L<Decimal Versions>, Dotted-Decimal Versions have more than a single decimal point, e.g.:

```perl
# Prints
$v = version->new("v1.200");  # v1.200.0
$v = version->new("v1.20.0");  # v1.20.0
$v = qv("v1.2.3");            # v1.2.3
$v = qv("1.2.3");            # v1.2.3
$v = qv("1.20");             # v1.20.0
```

In general, Dotted-Decimal Versions permit the greatest amount of freedom to specify a version, whereas Decimal Versions enforce a certain uniformity.

Just like L<Decimal Versions>, Dotted-Decimal Versions can be used as L<Alpha Versions>.

=head2 Alpha Versions

For module authors using CPAN, the convention has been to note unstable releases with an underscore in the version string. (See L<CPAN>.) version.pm follows this convention and alpha releases will test as being newer than the more recent stable release, and less than the next stable release. Only the last element may be separated by an underscore:

```perl
# Declaring
use version 0.77; our $VERSION = version->declare("v1.2_3");
```

```perl
# Parsing
$v1 = version->parse("v1.2_3");
$v1 = version->parse("1.002_003");
```

Note that you B<must> quote the version when writing an alpha Decimal version. The stringified form of Decimal versions will always be the same string that was used to initialize the version object.

=head2 Regular Expressions for Version Parsing

A formalized definition of the legal forms for version strings is included in the C<version::regex> class. Primitives are included for common elements, although they are scoped to the file so they are useful for reference purposes only. There are two publicly accessible scalars
that can be used in other code (not exported):

=item 4

=item \$version::LAX

This regexp covers all of the legal forms allowed under the current version string parser. This is not to say that all of these forms are recommended, and some of them can only be used when quoted.

For dotted decimals:

v1.2
1.2345.6
v1.23_4

The leading 'v' is optional if two or more decimals appear. If only a single decimal is included, then the leading 'v' is required to trigger the dotted-decimal parsing. A leading zero is permitted, though not recommended except when quoted, because of the risk that Perl will treat the number as octal. A trailing underscore plus one or more digits denotes an alpha or development release (and must be quoted to be parsed properly).

For decimal versions:

1
1.2345
1.2345_01

an integer portion, an optional decimal point, and optionally one or more digits to the right of the decimal are all required. A trailing underscore is permitted and a leading zero is permitted. Just like the lax dotted-decimal version, quoting the values is required for alpha/development forms to be parsed correctly.

=item \$version::STRICT

This regexp covers a much more limited set of formats and constitutes the best practices for initializing version objects. Whether you choose to employ decimal or dotted-decimal for is a personal preference however.

=item 4

=item v1.234.5

For dotted-decimal versions, a leading 'v' is required, with three or more sub-versions of no more than three digits. A leading 0 (zero)
before the first sub-version (in the above example, '1') is also prohibited.

=item 2.3456

For decimal versions, an integer portion (no leading 0), a decimal point, and one or more digits to the right of the decimal are all required.

=back

=back

Both of the provided scalars are already compiled as regular expressions and do not contain either anchors or implicit groupings, so they can be included in your own regular expressions freely. For example, consider the following code:

($)pkg, $ver) =~ /
  ^[	\ ]*
  use [ \t]+($PKGNAME)
  (?:[ \t]+($version::STRICT))? 
  [ \t]*/;
  /x;

This would match a line of the form:

use Foo::Bar::Baz v1.2.3; # legal only in Perl 5.8.1+

where C<$PKGNAME> is another regular expression that defines the legal forms for package names.

=head1 IMPLEMENTATION DETAILS

=head2 Equivalence between Decimal and Dotted-Decimal Versions

When Perl 5.6.0 was released, the decision was made to provide a transformation between the old-style decimal versions and new-style dotted-decimal versions:

  5.6.0    == 5.006000
  5.005_04 == 5.5.40

The floating point number is taken and split first on the single decimal place, then each group of three digits to the right of the decimal makes up the next digit, and so on until the number of significant digits is exhausted, B<plus> enough trailing zeros to reach the next multiple of three.

This was the method that version.pm adopted as well. Some examples may be
<table>
<thead>
<tr>
<th>equivalent</th>
<th>zero-padded</th>
<th>dotted-decimal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.2</td>
<td>1.200</td>
<td>v1.200.0</td>
</tr>
<tr>
<td>1.02</td>
<td>1.020</td>
<td>v1.20.0</td>
</tr>
<tr>
<td>1.002</td>
<td>1.002</td>
<td>v1.2.0</td>
</tr>
<tr>
<td>1.0023</td>
<td>1.002300</td>
<td>v1.2.300</td>
</tr>
<tr>
<td>1.00203</td>
<td>1.002030</td>
<td>v1.2.30</td>
</tr>
<tr>
<td>1.002003</td>
<td>1.002003</td>
<td>v1.2.3</td>
</tr>
</tbody>
</table>

=head2 Quoting Rules

Because of the nature of the Perl parsing and tokenizing routines, certain initialization values must be quoted in order to correctly parse as the intended version, especially when using the \<declare> or \L</qv()> methods. While you do not have to quote decimal numbers when creating version objects, it is always safe to quote all initial values when using version.pm methods, as this will ensure that what you type is what is used.

Additionally, if you quote your initializer, then the quoted value that goes in will be exactly what comes out when your $VERSION is printed (stringified). If you do not quote your value, Perl's normal numeric handling comes into play and you may not get back what you were expecting.

If you use a mathematic formula that resolves to a floating point number, you are dependent on Perl's conversion routines to yield the version you expect. You are pretty safe by dividing by a power of 10, for example, but other operations are not likely to be what you intend. For example:

$VERSION = version->new((qw$Revision: 1.4)[1]/10);
print $VERSION;    # yields 0.14
$V2 = version->new(100/9); # Integer overflow in decimal number
print $V2;         # yields something like 11.111.111.100

Perl 5.8.1 and beyond are able to automatically quote v-strings but that is not possible in earlier versions of Perl. In other words:

$version = version->new("v2.5.4"); # legal in all versions of Perl
$newvers = version->new(v2.5.4);    # legal only in Perl >= 5.8.1

=head2 What about v-strings?

There are two ways to enter v-strings: a bare number with two or more decimal points, or a bare number with one or more decimal points and a leading 'v' character (also bare). For example:
However, the use of bare v-strings to initialize version objects is strongly discouraged in all circumstances. Also, bare v-strings are not completely supported in any version of Perl prior to 5.8.1.

If you insist on using bare v-strings with Perl > 5.6.0, be aware of the following limitations:

1) For Perl releases 5.6.0 through 5.8.0, the v-string code merely guesses, based on some characteristics of v-strings. You must use a three part version, e.g. 1.2.3 or v1.2.3 in order for this heuristic to be successful.

2) For Perl releases 5.8.1 and later, v-strings have changed in the Perl core to be magical, which means that the version.pm code can automatically determine whether the v-string encoding was used.

3) In all cases, a version created using v-strings will have a stringified form that has a leading 'v' character, for the simple reason that sometimes it is impossible to tell whether one was present initially.

=head2 Version Object Internals

version.pm provides an overloaded version object that is designed to both encapsulate the author's intended $VERSION assignment as well as make it completely natural to use those objects as if they were numbers (e.g. for comparisons). To do this, a version object contains both the original representation as typed by the author, as well as a parsed representation to ease comparisons. Version objects employ overload methods to simplify code that needs to compare, print, etc the objects.

The internal structure of version objects is a blessed hash with several components:

bless( {
    'original' => 'v1.2.3_4',
    'alpha' => 1,
    'qv' => 1,
    'version' => [ 1, 2, 3, 4 ]
}, 'version' );

over 4

original

A faithful representation of the value used to initialize this version object. The only time this will not be precisely the same characters that exist in the source file is if a short dotted-decimal version like v1.2 was used (in which case it will contain 'v1.2'). This form is **B<STRONGLY>** discouraged, in that it will confuse you and your users.

qv

A boolean that denotes whether this is a decimal or dotted-decimal version. See L<version/is_qv()>.

alpha

A boolean that denotes whether this is an alpha version. **NOTE:** that the underscore can only appear in the last position. See L<version/is_alpha()>.

version

An array of non-negative integers that is used for comparison purposes with other version objects.

Replacement UNIVERSAL::VERSION

In addition to the version objects, this modules also replaces the core UNIVERSAL::VERSION function with one that uses version objects for its comparisons. The return from this operator is always the stringified form as a simple scalar (i.e. not an object), but the warning message generated includes either the stringified form or the normal form, depending on how it was called.

For example:

```perl
package Foo;
$VERSION = 1.2;

package Bar;
$VERSION = "v1.3.5"; # works with all Perl's (since it is quoted)

package main;
use version;
```
print $Foo::VERSION; # prints 1.2

print $Bar::VERSION; # prints 1.003005

eval "use foo 10";
print $@; # prints "foo version 10 required..."
eval "use foo 1.3.5; # work in Perl 5.6.1 or better
print $@; # prints "foo version 1.3.5 required..."

eval "use bar 1.3.6";
print $@; # prints "bar version 1.3.6 required..."
eval "use bar 1.004"; # note Decimal version
print $@; # prints "bar version 1.004 required..."

IMPORTANT NOTE: This may mean that code which searches for a specific
string (to determine whether a given module is available) may need to be
changed. It is always better to use the built-in comparison implicit in
C<use> or C<require>, rather than manually poking at C<< class->VERSION >>
and then doing a comparison yourself.

The replacement UNIVERSAL::VERSION, when used as a function, like this:

    print $module->VERSION;

will also exclusively return the stringified form. See L</Stringification>
for more details.

=head1 USAGE DETAILS

=head2 Using modules that use version.pm

As much as possible, the version.pm module remains compatible with all
current code. However, if your module is using a module that has defined
C<$VERSION> using the version class, there are a couple of things to be
aware of. For purposes of discussion, we will assume that we have the
following module installed:

    package Example;
    use version; $VERSION = qv('1.2.2');
    ...module code here...
    1;

=over 4

=item Decimal versions always work

Code of the form:
use Example 1.002003;

will always work correctly. The C<use> will perform an automatic
C<$VERSION> comparison using the floating point number given as the first
term after the module name (e.g. above 1.002.003). In this case, the
installed module is too old for the requested line, so you would see an
error like:

Example version 1.002003 (v1.2.3) required--this is only version 1.002002 (v1.2.2)...

=item Dotted-Decimal version work sometimes

With Perl >= 5.6.2, you can also use a line like this:

use Example 1.2.3;

and it will again work (i.e. give the error message as above), even with
releases of Perl which do not normally support v-strings (see L<What about v-strings?> above). This has to do with
that fact that C<use> only checks
to see if the second term I<looks like a number> and passes that to the
replacement L<UNIVERSAL::VERSION|UNIVERSAL/VERSION>. This is not true in Perl 5.005_04,
however, so you are B<strongly encouraged> to always use a Decimal version
in your code, even for those versions of Perl which support the Dotted-Decimal
version.

=back

=head2 Object Methods

=over 4

=item new()

Like many OO interfaces, the new() method is used to initialize version
objects. If two arguments are passed to C<new()>, the B<second> one will be
used as if it were prefixed with "v". This is to support historical use of the
C<qw> operator with the CVS variable $Revision, which is automatically
incremented by CVS every time the file is committed to the repository.

In order to facilitate this feature, the following
code can be employed:

.VERSION = version->new(qw$Revision: 2.7 $);

and the version object will be created as if the following code
were used:
$VERSION = version->new("v2.7");

In other words, the version will be automatically parsed out of the string, and it will be quoted to preserve the meaning CVS normally carries for versions. The CVS $Revision$ increments differently from Decimal versions (i.e. 1.10 follows 1.9), so it must be handled as if it were a Dotted-Decimal Version.

A new version object can be created as a copy of an existing version object, either as a class method:

```
$v1 = version->new(12.3);
$v2 = version->new($v1);
```

or as an object method:

```
$v1 = version->new(12.3);
$v2 = $v1->new(12.3);
```

and in each case, $v1 and $v2 will be identical. NOTE: if you create a new object using an existing object like this:

```
$v2 = $v1->new();
```

the new object B<will not> be a clone of the existing object. In the example case, $v2 will be an empty object of the same type as $v1.

=back

=over 4

=item qv()

An alternate way to create a new version object is through the exported qv() sub. This is not strictly like other q? operators (like qq, qw), in that the only delimiters supported are parentheses (or spaces). It is the best way to initialize a short version without triggering the floating point interpretation. For example:

```
$v1 = qv(1.2);         # v1.2.0
$v2 = qv("1.2");       # also v1.2.0
```

As you can see, either a bare number or a quoted string can usually be used interchangeably, except in the case of a trailing zero, which must be quoted to be converted properly. For this reason, it is strongly recommended that all initializers to qv() be quoted strings instead of bare numbers.
To prevent the C<qv()> function from being exported to the caller's namespace, either use version with a null parameter:

use version();

or just require version, like this:

require version;

Both methods will prevent the import() method from firing and exporting the C<qv()> sub.

=back

For the subsequent examples, the following three objects will be used:

$ver   = version->new("1.2.3.4"); # see "Quoting Rules"
$alpha = version->new("1.2.3_4"); # see "Alpha Versions"
$nver  = version->new(1.002);     # see "Decimal Versions"

=over 4

=item Normal Form

For any version object which is initialized with multiple decimal places (either quoted or if possible v-string), or initialized using the L<qv()>|version/qv()> operator, the stringified representation is returned in a normalized or reduced form (no extraneous zeros), and with a leading 'v':

print $ver->normal;         # prints as v1.2.3.4
print $ver->stringify;      # ditto
print $ver;                 # ditto
print $nver->normal;        # prints as v1.2.0
print $nver->stringify;     # prints as 1.002,
                           # see "Stringification"

In order to preserve the meaning of the processed version, the normalized representation will always contain at least three sub terms. In other words, the following is guaranteed to always be true:

my $newver = version->new($ver->stringify);
if ($newver eq $ver) # always true
     {...}

=back

=over 4
Numification

Although all mathematical operations on version objects are forbidden by default, it is possible to retrieve a number which corresponds to the version object through the use of the $obj->numify method. For formatting purposes, when displaying a number which corresponds a version object, all sub versions are assumed to have three decimal places. So for example:

```perl
print $ver->numify;         # prints 1.002003004
print $nver->numify;        # prints 1.002
```

Unlike the stringification operator, there is never any need to append trailing zeros to preserve the correct version value.

Stringification

The default stringification for version objects returns exactly the same string as was used to create it, whether you used `C<new()>` or `C<qv()>`, with one exception. The sole exception is if the object was created using `C<qv()>` and the initializer did not have two decimal places or a leading 'v' (both optional), then the stringified form will have a leading 'v' prepended, in order to support round-trip processing.

For example:

<table>
<thead>
<tr>
<th>Initialized as</th>
<th>Stringifies to</th>
</tr>
</thead>
<tbody>
<tr>
<td>version-&gt;new(&quot;1.2&quot;)</td>
<td>1.2</td>
</tr>
<tr>
<td>version-&gt;new(&quot;v1.2&quot;)</td>
<td>v1.2</td>
</tr>
<tr>
<td>qv(&quot;1.2.3&quot;)</td>
<td>1.2.3</td>
</tr>
<tr>
<td>qv(&quot;v1.3.5&quot;)</td>
<td>v1.3.5</td>
</tr>
<tr>
<td>qv(&quot;1.2&quot;)</td>
<td>v1.2   ### exceptional case</td>
</tr>
</tbody>
</table>

See also L<UNIVERSAL::VERSION|UNIVERSAL/VERSION>, as this also returns the stringified form when used as a class method.

IMPORTANT NOTE: There is one exceptional cases shown in the above table where the "initializer" is not stringwise equivalent to the stringified representation. If you use the `C<qv()>` operator on a version without a leading 'v' `B<and>` with only a single decimal place, the stringified output will have a leading 'v', to preserve the sense. See the L</qv()> operator for more details.
IMPORTANT NOTE 2: Attempting to bypass the normal stringification rules by manually applying L<numify()> operator will sometimes yield surprising results:

    print version->new(version->new("v1.0"))->numify)->normal; # v1.0.0

The reason for this is that the L<numify()> operator will turn "v1.0" into the equivalent string "1.000000". Forcing the outer version object to L<normal()> form will display the mathematically equivalent "v1.0.0".

As the example in L</new()> shows, you can always create a copy of an existing version object with the same value by the very compact:

    $v2 = $v1->new($v1);

and be assured that both C<$v1> and C<$v2> will be completely equivalent, down to the same internal representation as well as stringification.

=back

=item Comparison operators

Both C<cmp> and C<E<lt>=E<gt>> operators perform the same comparison between terms (upgrading to a version object automatically). Perl automatically generates all of the other comparison operators based on those two. In addition to the obvious equalities listed below, appending a single trailing 0 term does not change the value of a version for comparison purposes. In other words "v1.2" and "1.2.0" will compare as identical.

For example, the following relations hold:

<table>
<thead>
<tr>
<th>As Number</th>
<th>As String</th>
<th>Truth Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>$ver &gt; 1.0</td>
<td>$ver gt &quot;1.0&quot;</td>
<td>true</td>
</tr>
<tr>
<td>$ver &lt; 2.5</td>
<td>$ver lt</td>
<td>true</td>
</tr>
<tr>
<td>$ver != 1.3</td>
<td>$ver ne &quot;1.3&quot;</td>
<td>true</td>
</tr>
<tr>
<td>$ver == 1.2</td>
<td>$ver eq &quot;1.2&quot;</td>
<td>false</td>
</tr>
<tr>
<td>$ver == 1.2.3.4</td>
<td>$ver eq &quot;1.2.3.4&quot;</td>
<td>see discussion below</td>
</tr>
</tbody>
</table>

It is probably best to chose either the Decimal notation or the string notation and stick with it, to reduce confusion. Perl6 version objects B<may> only support Decimal comparisons. See also L<Quoting Rules>.

WARNING: Comparing version with unequal numbers of decimal points (whether explicitly or implicitly initialized), may yield unexpected results at first glance. For example, the following inequalities hold:
version->new(0.96) > version->new(0.95); # 0.960.0 > 0.950.0
version->new("0.96.1") < version->new(0.95); # 0.096.1 < 0.950.0

For this reason, it is best to use either exclusively L<Decimal Versions> or L<Dotted-Decimal Versions> with multiple decimal points.

=back

=over 4

=item Logical Operators

If you need to test whether a version object has been initialized, you can simply test it directly:

$ jsonObj = version->new($something);
if ( $ jsonObj ) # true only if $something was non-blank

You can also test whether a version object is an alpha version, for example to prevent the use of some feature not present in the main release:

$ jsonObj = version->new("1.2_3"); # MUST QUOTE
...later...
if ( $ jsonObj->is_alpha ) # True

=back

=head1 AUTHOR

John Peacock E&lt;jpeacock@cpan.orgE&gt;

=head1 SEE ALSO

L<perl>.

=cut

Found in path(s):
* /opt/cola/permits/1125845412_1611461012.39/0/perl-version-0.99.24-1.el8-1.src.rpm-cosi-expand-archive-7Oca4SMD/version-0.9924.tar.gz-cosi-expand-archive-xfIW0bmC/version-0.9924/lib/version/Internals.pod
No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1125845412_1611461012.39/0/perl-version-0.99.24-1.el8-1.src.rpm-cosi-expand-archive-
1.1239 xiang90-probing 0.6

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

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

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

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

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

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

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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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.

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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:

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

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

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

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

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

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

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

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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Finally, 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
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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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   (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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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.

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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// Permission associates the required access permission
// for each table.
  type Permission struct {
    TableName string
    Role      tableacl.Role
  }

  // BuildPermissions builds the list of required permissions for all the
// tables referenced in a query.
func BuildPermissions(stmt sqlparser.Statement) []Permission {
    var permissions []Permission
    // All Statement types must be covered here.
    switch node := stmt.(type) {
    case *sqlparser.Union, *sqlparser.Select:
        permissions = buildSubqueryPermissions(node, tableacl.READER, permissions)
        case *sqlparser.Insert:
            permissions = buildTableNamePermissions(node.Table, tableacl.WRITER, permissions)
        permissions = buildSubqueryPermissions(node, tableacl.READER, permissions)
        case *sqlparser.Update:
            permissions = buildTableExprsPermissions(node.TableExprs, tableacl.WRITER, permissions)
        permissions = buildSubqueryPermissions(node, tableacl.READER, permissions)
        case *sqlparser.Delete:
            permissions = buildTableExprsPermissions(node.TableExprs, tableacl.WRITER, permissions)
        permissions = buildSubqueryPermissions(node, tableacl.READER, permissions)
        case *sqlparser.Set, *sqlparser.Show, *sqlparser.OtherRead:
            // no-op
        case *sqlparser.DDL:
            if !node.Table.IsEmpty() {
                permissions = buildTableNamePermissions(node.Table, tableacl.ADMIN, permissions)
            }
            if !node.NewName.IsEmpty() {
                permissions = buildTableNamePermissions(node.NewName, tableacl.ADMIN, permissions)
            }
        case *sqlparser.OtherAdmin:
            // no op
            // no op
        default:
            panic(fmt.Errorf("BUG: unexpected statement type: %T", node))
        }
    return permissions
}

func buildSubqueryPermissions(stmt sqlparser.Statement, role tableacl.Role, permissions []Permission) []Permission {
    _ = sqlparser.Walk(func(node sqlparser.SQLNode) (bool, error) {
        switch node := node.(type) {
        case *sqlparser.Select:
            permissions = buildTableExprsPermissions(node.From, role, permissions)
        case sqlparser.TableExprs:
            return false, nil
        }
    }, stmt)
    return permissions
}
func buildTableExprPermissions(node sqlparser.TableExpr, role tableacl.Role, permissions []Permission) []Permission {
    switch node := node.(type) {
    case *sqlparser.AliasedTableExpr:
      // An AliasedTableExpr can also be a subquery, but we should skip them here
      // because the buildSubQueryPermissions walker will catch them and extract
      // the corresponding table names.
      switch node := node.Expr.(type) {
      case sqlparser.TableName:
        permissions = buildTableNamePermissions(node, role, permissions)
      case *sqlparser.Subquery:
        permissions = buildSubqueryPermissions(node.Select, role, permissions)
      }
    case *sqlparser.ParenTableExpr:
      permissions = buildTableExprPermissions(node.Exprs, role, permissions)
    case *sqlparser.JoinTableExpr:
      permissions = buildTableExprPermissions(node.LeftExpr, role, permissions)
      permissions = buildTableExprPermissions(node.RightExpr, role, permissions)
    }
    return permissions
}

func buildTableNamePermissions(node sqlparser.TableName, role tableacl.Role, permissions []Permission) []Permission {
    permissions = append(permissions, Permission{
        TableName: node.Name.String(),
        Role:     role,
    })
    return permissions
}

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1.1252 e2fsprogs 1.42.12-2+b1
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Index: tdbsa/tdb.c
===================================================================
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+++ tdbsa/tdb.c
--- tdbsa.org/tdb.c
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- Unix SMB/CIFS implementation.
  + trivial database library - standalone version

- trivial database library - private includes

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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSIDL_VERSION = 1.0
# BSIDL_IMAGE = libce
# BSIDL_MYDIR = et
# BSIDL_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

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

BSD_LIB = $(BSIDL_IMAGE).so.$(BSIDL_VERSION)
BSIDL_PIC_FLAG = -fpic

image:@(BSD_LIB)

$(BSD_LIB): $<$(BSIDL_LIB)

$(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $<$(OBJ))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
$(cd ..; $(LN) $(LINK_BUILD_FLAGS) \

Open Source Used In APIC-SE-BATMAN 2.1.1d 13336
'echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

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

install-shlibs-strip: install

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Theodore Ts'o
23-June-2007

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1.1260 viper v1.6.1

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1.1261 json-iterator-go v0.0.0-20180612202835-f2b4162afba3

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1.1262 algoimpl v0.0.0-20170717182524-076353e90b94

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1.1263 perl-encode-locale 1.05-9.el8

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Encode-Locale
-------------

The purpose of this Perl module is try determine what encodings should be used 
when interfacing to various external interfaces. You will need perl-5.8 or 
better to use this module.

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Found in path(s):
* /opt/cola/permits/1137994727_1614192763.01/0/perl-Encode-Locale-1.05-9.el8-1.src.rpm-cosi-expand-archive-xp7gznGr/Encode-Locale-1.05.tar.gz-cosi-expand-archive-daUPGOiy/Encode-Locale-1.05/README

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=head1 NAME

Encode::Locale - Determine the locale encoding

=head1 SYNOPSIS

use Encode::Locale;
use Encode;

$string = decode(locale => $bytes);
$bytes = encode(locale => $string);

if (-t) {
    binmode(STDIN, ":encoding(console_in)");
    binmode(STDOUT, ":encoding(console_out)");
    binmode(STDERR, ":encoding(console_out)");
}

# Processing file names passed in as arguments
my $uni_filename = decode(locale => $ARGV[0]);
open(my $fh, "<", encode(locale_fs => $uni_filename))
    || die "Can't open '$uni_filename': $!";
binmode($fh, ":encoding(locale)");
...

=head1 DESCRIPTION

In many applications it's wise to let Perl use Unicode for the strings it
processes. Most of the interfaces Perl has to the outside world are still byte
based. Programs therefore need to decode byte strings that enter the program
from the outside and encode them again on the way out.

The POSIX locale system is used to specify both the language conventions
requested by the user and the preferred character set to consume and
output. The C<Encode::Locale> module looks up the charset and encoding (called
a CODESET in the locale jargon) and arranges for the L<Encode> module to know
this encoding under the name "locale". It means bytes obtained from the
environment can be converted to Unicode strings by calling C<
Encode::encode(locale => $bytes) >> and converted back again with C<
Encode::decode(locale => $string) >>.
Where file systems interfaces pass file names in and out of the program we also need care. The trend is for operating systems to use a fixed file encoding that don’t actually depend on the locale; and this module determines the most appropriate encoding for file names. The L<Encode> module will know this encoding under the name "locale_fs". For traditional Unix systems this will be an alias to the same encoding as "locale".

For programs running in a terminal window (called a "Console" on some systems) the "locale" encoding is usually a good choice for what to expect as input and output. Some systems allows us to query the encoding set for the terminal and C<Encode::Locale> will do that if available and make these encodings known under the C<Encode> aliases "console_in" and "console_out". For systems where we can’t determine the terminal encoding these will be aliased as the same encoding as "locale". The advice is to use "console_in" for input known to come from the terminal and "console_out" for output to the terminal.

In addition to arranging for various Encode aliases the following functions and variables are provided:

=over
=item decode_argv( )
=item decode_argv( Encode::FB_CROAK )

This will decode the command line arguments to perl (the C<@ARGV> array) in-place.

The function will by default replace characters that can’t be decoded by "\x{FFFD}", the Unicode replacement character.

Any argument provided is passed as CHECK to underlying Encode::decode() call. Pass the value C<Encode::FB_CROAK> to have the decoding croak if not all the command line arguments can be decoded. See L<Encode/Handling Malformed Data> for details on other options for CHECK.

=item env( $uni_key )
=item env( $uni_key => $uni_value )

Interface to get/set environment variables. Returns the current value as a Unicode string. The $uni_key and $uni_value arguments are expected to be Unicode strings as well. Passing C<undef> as $uni_value deletes the environment variable named $uni_key.

The returned value will have the characters that can’t be decoded replaced by "\x{FFFD}", the Unicode replacement character.

There is no interface to request alternative CHECK behavior as for
decode_argv(). If you need that you need to call encode/decode yourself. For example:

```perl
my $key = Encode::encode(locale => $uni_key, Encode::FB_CROAK);
my $uni_value = Encode::decode(locale => $ENV{$key}, Encode::FB_CROAK);
```

=item reinit()

=item reinit( $encoding )

Reinitialize the encodings from the locale. You want to call this function if you changed anything in the environment that might influence the locale.

This function will croak if the determined encoding isn't recognized by the Encode module.

With argument force $ENCODING_-... variables to set to the given value.

=item $ENCODING_LOCALE

The encoding name determined to be suitable for the current locale. L<Encode> know this encoding as "locale".

=item $ENCODING_LOCALE_FS

The encoding name determined to be suitable for file system interfaces involving file names. L<Encode> know this encoding as "locale_fs".

=item $ENCODING_CONSOLE_IN

=item $ENCODING_CONSOLE_OUT

The encodings to be used for reading and writing output to the a console. L<Encode> know these encodings as "console_in" and "console_out".

=back

=head1 NOTES

This table summarizes the mapping of the encodings set up by the C<Encode::Locale> module:

<table>
<thead>
<tr>
<th>Encode</th>
<th>Alias</th>
<th>Windows</th>
<th>Mac OS X</th>
<th>POSIX</th>
</tr>
</thead>
<tbody>
<tr>
<td>locale</td>
<td>ANSI</td>
<td>nl_langinfo</td>
<td>nl_langinfo</td>
<td></td>
</tr>
<tr>
<td>locale_fs</td>
<td>ANSI</td>
<td>UTF-8</td>
<td>nl_langinfo</td>
<td></td>
</tr>
</tbody>
</table>
Windows has basically 2 sets of APIs. A wide API (based on passing UTF-16 strings) and a byte based API based a character set called ANSI. The regular Perl interfaces to the OS currently only uses the ANSI APIs. Unfortunately ANSI is not a single character set.

The encoding that corresponds to ANSI varies between different editions of Windows. For many western editions of Windows ANSI corresponds to CP-1252 which is a character set similar to ISO-8859-1. Conceptually the ANSI character set is a similar concept to the POSIX locale CODESET so this module figures out what the ANSI code page is and make this available as $ENCODING_LOCALE and the "locale" Encoding alias.

Windows systems also operate with another byte based character set. It's called the OEM code page. This is the encoding that the Console takes as input and output. It's common for the OEM code page to differ from the ANSI code page.

On Mac OS X the file system encoding is always UTF-8 while the locale can otherwise be set up as normal for POSIX systems.

File names on Mac OS X will at the OS-level be converted to NFD-form. A file created by passing a NFC-filename will come in NFD-form from readdir(). See L<Unicode::Normalize> for details of NFD/NFC.

Actually, Apple does not follow the Unicode NFD standard since not all character ranges are decomposed. The claim is that this avoids problems with round trip conversions from old Mac text encodings. See L<Encode::UTF8Mac> for details.

File systems might vary in what encoding is to be used for filenames. Since this module has no way to actually figure out what the is correct it goes with the best guess which is to assume filenames are encoding according to the current locale. Users are advised to always specify UTF-8 as the locale charset.

SEE ALSO

L<I18N::Langinfo>, L<Encode>, L<Term::Encoding>
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abstract: 'Determine the locale encoding'
author:
- 'Gisle Aas <gisle@activestate.com>'
build_requires:
  ExtUtils::MakeMaker: '0'
  Test::More: '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: Encode-Locale
no_index:
directory:
  - t
  - inc
recommends:
  I18N::Langinfo: '0'
requires:
  Encode: '2'
  Encode::Alias: '0'
  perl: '5.008'
resources:
repository: http://github.com/gisle/encode-locale
version: '1.05'

Found in path(s):
* /opt/cola/permits/1137994727_1614192763.01/0/perl-Encode-Locale-1.05-9.el8-1.src.rpm-cosi-expand-archive-xp/gznGr/Encode-Locale-1.05.tar.gz-cosi-expand-archive-daUPGOiy/Encode-Locale-1.05/META.yml

1.1264 libxv 1.0.11

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1.1266 structured-merge-diff v3.0.0

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jseward@bzip.org
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```
cmd/krb5/iprop/iprop.x
cmd/krb5/iprop/iprop_hdr.h
cmd/krb5/krb5/admin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
```
```
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
```
```
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
```
```
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
```
```
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
```
```
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
```
```
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
```
```
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
```
```
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
"src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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1.1272 systemd 219 19.el7_2.13

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mgo - MongoDB driver for Go

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Protocol Buffers for Go with Gadgets

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

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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>
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```

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1.1313 ipmi-tool 1.8.18-9.el7_7

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1.1314 perl-podlators 2.5.1 3.el7
1.1315 go-zglob 0.11

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

---
abstract: 'match globbing patterns against text'
author:
- 'Richard Clamp <richardc@unixbeard.net>'
built requires:
  ExtUtils::MakeMaker: '0'
  Test::More: '0'
configure requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 0
generated by: 'ExtUtils::MakeMaker version 7.24, 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-Glob
no_index:
directory:
  - t
  - inc
requires:
  Exporter: '0'
  constant: '0'
  perl: '5.00503'
resources: {}
version: '0.11'

Found in path(s):
* /opt/cola/permits/1116215057_1608147787.74/0/perl-Text-Glob-0.11-4.fc28.src.rpm-cosi-expand-archive-
  JiYd5YF2/Text-Glob-0.11.tar.gz-cosi-expand-archive-ShAQwDVn/Text-Glob-0.11/META.yml
No license file was found, but licenses were detected in source scan.

Name: perl-Text-Glob
Version: 0.11
Release: 4% {?dist}
Summary: Perl module to match globbing patterns against text
License: GPL+ or Artistic
URL: http://search.cpan.org/dist/Text-Glob/
Source0: http://www.cpan.org/authors/id/R/RC/RCLAMP/Text-Glob-% {version}.tar.gz
BuildArch: noarch
BuildRequires: perl-generators
BuildRequires: %{__perl}
BuildRequires: %{__make}

BuildRequires: perl(ExtUtils::MakeMaker)
BuildRequires: perl(Exporter)
BuildRequires: perl(Test::More)
BuildRequires: perl(constant)
BuildRequires: perl(strict)
BuildRequires: perl(vars)
Requires: perl(:MODULE_COMPAT_%(eval ""\"%{__perl} -V:version\"`; echo version))

%description
Text::Glob implements glob(3) style matching that can be used to match
against text, rather than fetching names from a file-system. If you
want to do full file globbing use the File::Glob module instead.

%prep
%setup -q -n Text-Glob-%{version}

%build
%{__perl} Makefile.PL INSTALLDIRS=vendor NO_PACKLIST=1
%{__make} %{?_smp_mflags}

%install
%{__make} pure_install DESTDIR=$RPM_BUILD_ROOT
chmod -R u+w $RPM_BUILD_ROOT/*

%check
%{__make} test

%files
%doc Changes
%{perl_vendorlib}/Text
%{_mandir}/man3/*

%changelog
* Fri Feb 09 2018 Fedora Release Engineering <relen@fedoraproject.org> - 0.11-4
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_28_Mass_Rebuild

* Thu Jul 27 2017 Fedora Release Engineering <relen@fedoraproject.org> - 0.11-3
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_27_Mass_Rebuild

* Sun Jun 04 2017 Jitka Plesnikova <jplesnik@redhat.com> - 0.11-2
  - Perl 5.26 rebuild

* Mon Mar 13 2017 Ralf Corspius <corsepiu@fedoraproject.org> - 0.11-1
- Upstream update.
- Spec files cosmetics.

* Sat Feb 11 2017 Fedora Release Engineering <releng@fedoraproject.org> - 0.10-2
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_26_Mass_Rebuild

* Thu Sep 22 2016 Ralf Corspius <corsepiu@fedoraproject.org> - 0.10-1
  - Upstream update.

* Sat May 14 2016 Jitka Plesnikova <jplesnik@redhat.com> - 0.09-16
  - Perl 5.25 rebuild

* Thu Feb 04 2016 Fedora Release Engineering <releng@fedoraproject.org> - 0.09-15
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_24_Mass_Rebuild

* Sat Jan 30 2016 Ralf Corspius <corsepiu@fedoraproject.org> - 0.09-14
  - Modernize spec.

* Thu Jun 18 2015 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.09-13
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_23_Mass_Rebuild

* Wed Jun 03 2015 Jitka Plesnikova <jplesnik@redhat.com> - 0.09-12
  - Perl 5.22 rebuild

* Wed Aug 27 2014 Jitka Plesnikova <jplesnik@redhat.com> - 0.09-11
  - Perl 5.20 rebuild

* Sat Jun 07 2014 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.09-10
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_21_Mass_Rebuild

* Sun Aug 04 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.09-9
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_20_Mass_Rebuild

* Wed Jul 17 2013 Petr Pisar <ppisar@redhat.com> - 0.09-8
  - Perl 5.18 rebuild

* Thu Feb 14 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.09-7
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_19_Mass_Rebuild

* Fri Aug 10 2012 Jitka Plesnikova <jplesnik@redhat.com> - 0.09-6
  - Update BRs and remove %%defattr.

* Fri Jul 20 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.09-5
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild

* Fri Jun 08 2012 Petr Pisar <ppisar@redhat.com> - 0.09-4
  - Perl 5.16 rebuild
* Fri Jan 13 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.09-3
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_17_Mass_Rebuild

* Fri Jun 17 2011 Marcela Malov <mmaslano@redhat.com> - 0.09-2
  - Perl mass rebuild

* Wed Mar 02 2011 Ralf Corspius <corsepiu@fedoraproject.org> - 0.09-1
  - Upstream update.
  - Spec cleanup.

* Wed Feb 09 2011 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.08-11
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_15_Mass_Rebuild

* Thu Dec 23 2010 Marcela Maslanova <mmaslano@redhat.com> - 0.08-10
  - 661697 rebuild for fixing problems with vendorach/lib

* Fri May 07 2010 Marcela Maslanova <mmaslano@redhat.com> - 0.08-9
  - Mass rebuild with perl-5.12.0

* Thu Feb 25 2010 Marcela Malov <mmaslano@redhat.com> - 0.08-8
  - add readme

* Fri Dec 4 2009 Stepan Kasal <skasal@redhat.com> - 0.08-7
  - rebuild against perl 5.10.1

* Sun Jul 26 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.08-6
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_12_Mass_Rebuild

* Thu Feb 26 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.08-5
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_11_Mass_Rebuild

* Wed Feb 27 2008 Tom "spot" Callaway <tcallawa@redhat.com> - 0.08-4
  - Rebuild for perl 5.10 (again)

* Fri Jan 11 2008 Tom "spot" Callaway <tcallawa@redhat.com> - 0.08-3
  - rebuild for new perl

* Sat Aug 18 2007 Ralf Corspius <rc040203@freenet.de> - 0.08-2
  - Update license tag.

* Tue May 08 2007 Ralf Corspius <rc040203@freenet.de> - 0.08-1
  - Upstream update.

* Tue Sep 05 2006 Ralf Corspius <rc040203@freenet.de> - 0.07-2
  - Mass rebuild.

* Thu Jul 20 2006 Ralf Corspius <rc040203@freenet.de> - 0.07-1
  - Upstream update.
Found in path(s):
* /opt/cola/permits/1116215057_1608147787.74/0/perl-Text-Glob-0.11-4.fc28.src.rpm-cosi-expand-archive-JiYd5YF2/perl-Text-Glob.spec
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=head1 NAME

Text::Glob - match globbing patterns against text

=head1 SYNOPSIS

use Text::Glob qw( match_glob glob_to_regex );

print "matched\n" if match_glob( "foo.*", "foo.bar" );

# prints foo.bar and foo.baz
my $regex = glob_to_regex( "foo.*" );
for ( qw( foo.bar foo.baz foo bar ) ) {
    print "matched: $_\n" if /$regex/;
}

=head1 DESCRIPTION

Text::Glob implements glob(3) style matching that can be used to match against text, rather than fetching names from a filesystem. If you want to do full file globbing use the File::Glob module instead.

=head2 Routines

=over

=item match_glob( $glob, @things_to_test )

Returns the list of things which match the glob from the source list.
=item glob_to_regex( $glob )

Returns a compiled regex which is the equivalent of the globbing pattern.

=back

=item glob_to_regex_string( $glob )

Returns a regex string which is the equivalent of the globbing pattern.

=head1 SYNTAX

The following metacharacters and rules are respected.

=over

=item C<*> - match zero or more characters

C<a*> matches C<a>, C<aa>, C<aaaa> and many many more.

=item C<?> - match exactly one character

C<a?> matches C<aa>, but not C<a>, or C<aaa>

=item Character sets/ranges

C<example.[ch]> matches C<example.c> and C<example.h>

C<demo.[a-c]> matches C<demo.a>, C<demo.b>, and C<demo.c>

=item alternation

C<example.{foo,bar,baz}> matches C<example.foo>, C<example.bar>, and C<example.baz>

=item leading . must be explicitly matched

C<*.foo> does not match C<bar.foo>. For this you must either specify the leading . in the glob pattern (C<*.foo>), or set C<$Text::Glob::strict_leading_dot> to a false value while compiling the regex.

=item C<*> and C<?, do not match the seperator (i.e. do not match C<\>)

C<*.foo> does not match C<bar/baz.foo>. For this you must either explicitly match the / in the glob (C<*/.foo>), or set
C<$Text::Glob::strict_wildcard_slash> to a false value while compiling the regex, or change the separator that Text::Glob uses by setting C<$Text::Glob::seperator> to an alternative value while compiling the regex.

=head1 BUGS

The code uses qr// to produce compiled regexes, therefore this module requires perl version 5.005_03 or newer.

=head1 AUTHOR

Richard Clamp <richarde@unixbeard.net>

=head1 COPYRIGHT


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=head1 SEE ALSO

L<File::Glob>, glob(3)

=cut

Found in path(s):
* /opt/cola/permits/1116215057_1608147787.74/0/perl-Text-Glob-0.11-4.fc28.src.rpm-cosi-expand-archive-JiYd5YF2/Text-Glob-0.11.tar.gz-cosi-expand-archive-ShAQwDVn/Text-Glob-0.11/lib/Text/Glob.pm

1.1316 diffutils 1.3.0

1.1316.1 Available under license :

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Version 3, 29 June 2007

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1.1317 jackson 2.10.5
1.1317.1 Available under license:

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### 1.1318 musl 1.1.24-r8

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1.1319 multipath-tools 0.4.9
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=head1 NAME

Archive::Zip - Provide an interface to ZIP archive files.

=head1 SYNOPSIS

# Create a Zip file
use Archive::Zip qw( :ERROR_CODES :CONSTANTS );
my $zip = Archive::Zip->new();

# Add a directory
my $dir_member = $zip->addDirectory( 'dirname/' );

# Add a file from a string with compression
my $string_member = $zip->addString( 'This is a test', 'stringMember.txt' );
$string_member->desiredCompressionMethod( COMPRESSION_DEFLATED );

# Add a file from disk
my $file_member = $zip->addFile( 'xyz.pl', 'AnotherName.pl' );

# Save the Zip file
unless ( $zip->writeToFileNamed('someZip.zip') == AZ_OK ) {
    die 'write error';
}

# Read a Zip file
my $somezip = Archive::Zip->new();
unless ( $somezip->read('someZip.zip') == AZ_OK ) {
    die 'read error';
}

# Change the compression type for a file in the Zip
my $member = $somezip->memberNamed( 'stringMember.txt' );
$member->desiredCompressionMethod( COMPRESSION_STORED );
unless ( $zip->writeToFileNamed( 'someOtherZip.zip' ) == AZ_OK ) {
    die 'write error';
}

=head1 DESCRIPTION

The Archive::Zip module allows a Perl program to create, manipulate, read, and write Zip archive files.

Zip archives can be created, or you can read from existing zip files.

Once created, they can be written to files, streams, or strings. Members can be added, removed, extracted, replaced, rearranged, and enumerated. They can also be renamed or have their dates, comments, or other attributes queried or modified. Their data can be compressed or uncompressed as needed.

Members can be created from members in existing Zip files, or from existing directories, files, or strings.

This module uses the L<Compress::Raw::Zlib> library to read and write the compressed streams inside the files.

One can use L<Archive::Zip::MemberRead> to read the zip file archive members as if they were files.

=head2 File Naming

Regardless of what your local file system uses for file naming, names in a Zip file are in Unix format (I<forward> slashes (/) separating directory names, etc.).

C<Archive::Zip> tries to be consistent with file naming conventions, and will translate back and forth between native and Zip file names.

However, it can't guess which format names are in. So two rules control what kind of file name you must pass various routines:

=over 4

=item Names of files are in local format.

C<File::Spec> and C<File::Basename> are used for various file operations. When you're referring to a file on your system, use its file naming conventions.

=item Names of archive members are in Unix format.

This applies to every method that refers to an archive member, or provides a name for new archive members. The \C{extract()} methods that can take one or two names will convert from local to zip names if you call them with a single name.

=head2 Archive::Zip Object Model

=head3 Overview

Archive::Zip::Archive objects are what you ordinarily deal with. These maintain the structure of a zip file, without necessarily holding data. When a zip is read from a disk file, the (possibly compressed) data still lives in the file, not in memory. Archive members hold information about the individual members, but not (usually) the actual member data. When the zip is written to a (different) file, the member data is compressed or copied as needed. It is possible to make archive members whose data is held in a string in memory, but this is not done when a zip file is read. Directory members don't have any data.

=head2 Inheritance

Exporter

Archive::Zip Common base class, has defs.
Archive::Zip::Archive A Zip archive.
Archive::Zip::Member Abstract superclass for all members.
Archive::Zip::StringMember Member made from a string
Archive::Zip::FileMember Member made from an external file
Archive::Zip::ZipFileMember Member that lives in a zip file
Archive::Zip::NewFileMember Member whose data is in a file
Archive::Zip::DirectoryMember Member that is a directory

=head1 EXPORTS

=over 4

=item :CONSTANTS

Exports the following constants:

FA_MSDOS FA_UNIX GPBF_ENCRYPTED_MASK
GPBF_DEFLATING_COMPRESSION_MASK GPBF_HAS_DATA_DESCRIPTOR_MASK
COMPRESSION_STORED COMPRESSION_DEFLATED IFA_TEXT_FILE_MASK
IFA_TEXT_FILE IFA_BINARY_FILE COMPRESSION_LEVEL_NONE
COMPRESSION_LEVEL_DEFAULT COMPRESSION_LEVEL_FASTEST
COMPRESSION_LEVEL_BEST_COMPRESSION
Exports the following constants (only necessary for extending the module):

FA_AMIGA FA_VAX_VMS FA_VM_CMS FA_ATARI_ST FA_OS2_HPFS
FA_MACINTOSH FA_Z_SYSTEM FA_CPM FA_WINDOWS_NTFS
GPBF_IMPLODING_8K_SLIDING_DICTIONARY_MASK
GPBF_IMPLODING_3_SHANNON_FANO_TREES_MASK
GPBF_IS_COMPRESSED_PATCHED_DATA_MASK COMPRESSION_SHRUNK
DEFLATING_COMPRESSION_NORMAL DEFLATING_COMPRESSION_MAXIMUM
DEFLATING_COMPRESSION_FAST DEFLATING_COMPRESSION_SUPER_FAST
COMPRESSION_REduced_1 COMPRESSION_REduced_2 COMPRESSION_REduced_3
COMPRESSION_REduced_4 COMPRESSION_IMPLODED COMPRESSION_TOKENIZED
COMPRESSION_DEFLATED_ENHANCED
COMPRESSION_PKWARE_DATA_COMPRESSION_LIBRARY_IMPLODED

Explained below. Returned from most methods.

AZ_OK AZ_STREAM_END AZ_ERROR AZ_FORMAT_ERROR AZ_IO_ERROR

Many of the methods in Archive::Zip return error codes. These are implemented as inline subroutines, using the C<use constant> pragma. They can be imported into your namespace using the C<:ERROR_CODES> tag:

use Archive::Zip qw( :ERROR_CODES );

... unless ( $zip->read('myfile.zip') == AZ_OK ) {  
  die "whoops!";
}

Everything is fine.
The read stream (or central directory) ended normally.

=item AZ_ERROR (2)

There was some generic kind of error.

=item AZ_FORMAT_ERROR (3)

There is a format error in a ZIP file being read.

=item AZ_IO_ERROR (4)

There was an IO error.

=back

=head2 Compression

Archive::Zip allows each member of a ZIP file to be compressed (using the Deflate algorithm) or uncompressed.

Other compression algorithms that some versions of ZIP have been able to produce are not supported. Each member has two compression methods: the one it's stored as (this is always COMPRESSION_STORED for string and external file members), and the one you desire for the member in the zip file.

These can be different, of course, so you can make a zip member that is not compressed out of one that is, and vice versa.

You can inquire about the current compression and set the desired compression method:

```perl
my $member = $zip->memberNamed( 'xyz.txt' );
$member->compressionMethod();  # return current compression

# set to read uncompressed
$member->desiredCompressionMethod( COMPRESSION_STORED );

# set to read compressed
$member->desiredCompressionMethod( COMPRESSION_DEFLATED );
```

There are two different compression methods:

=over 4

=item COMPRESSION_STORED

File is stored (no compression)
If a member's `desiredCompressionMethod` is `COMPRESSION_DEFLATED`, you can choose different compression levels. This choice may affect the speed of compression and decompression, as well as the size of the compressed member data.

```php
$member->desiredCompressionLevel(9);
```

The levels given can be:

- over 4
  - 0 or `COMPRESSION_LEVEL_NONE`

  This is the same as saying

  ```php
  $member->desiredCompressionMethod( COMPRESSION_STORED );
  ```

- 1 .. 9

  1 gives the best speed and worst compression, and 9 gives the best compression and worst speed.

- `COMPRESSION_LEVEL_FASTEST`

  This is a synonym for level 1.

- `COMPRESSION_LEVEL_BEST_COMPRESSION`

  This is a synonym for level 9.

- `COMPRESSION_LEVEL_DEFAULT`

  This gives a good compromise between speed and compression, and is currently equivalent to 6 (this is in the zlib code). This is the level that will be used if not specified.
The Archive::Zip class (and its invisible subclass Archive::Zip::Archive) implement generic zip file functionality. Creating a new Archive::Zip object actually makes an Archive::Zip::Archive object, but you don't have to worry about this unless you're subclassing.

=head2 Constructor

=head2 Zip Archive Utility Methods

These Archive::Zip methods may be called as functions or as object methods. Do not call them as class methods:

$zip = Archive::Zip->new();
$crc = Archive::Zip::computeCRC32( 'ghijkl' );  # OK
$crc = $zip->computeCRC32('ghijkl');          # also OK
$crc = Archive::Zip->computeCRC32('ghijkl');  # NOT OK

=item Archive::Zip::computeCRC32( $string [, $crc] )

=item Archive::Zip::computeCRC32( { string => $string [, checksum => $crc ] } )

This is a utility function that uses the Compress::Raw::Zlib CRC routine to compute a CRC-32. You can get the CRC of a string:
$crc = Archive::Zip::computeCRC32( $string );

Or you can compute the running CRC:

$crc = 0;
$crc = Archive::Zip::computeCRC32( 'abcdef', $crc );
$crc = Archive::Zip::computeCRC32( 'ghijkl', $crc );

=item Archive::Zip::setChunkSize( $number )

=item Archive::Zip::setChunkSize( { chunkSize => $number } )

Report or change chunk size used for reading and writing. This can make big differences in dealing with large files. Currently, this defaults to 32K. This also changes the chunk size used for Compress::Raw::Zlib. You must call setChunkSize() before reading or writing. This is not exportable, so you must call it like:

Archive::Zip::setChunkSize( 4096 );

or as a method on a zip (though this is a global setting). Returns old chunk size.

=item Archive::Zip::chunkSize()

Returns the current chunk size:

    my $chunkSize = Archive::Zip::chunkSize();

=item Archive::Zip::setErrorHandler( \&subroutine )

=item Archive::Zip::setErrorHandler( { subroutine => \&subroutine } )

Change the subroutine called with error strings. This defaults to \&Carp::carp, but you may want to change it to get the error strings. This is not exportable, so you must call it like:

Archive::Zip::setErrorHandler( \&myErrorHandler );

If myErrorHandler is undef, resets handler to default. Returns old error handler. Note that if you call Carp::carp or a similar routine or if you're chaining to the default error handler from your error handler, you may want to increment the number of caller levels that are skipped (do not just set it to a number):
Create a uniquely named temp file. It will be returned open for read/write. If \$tmpdir is given, it is used as the name of a directory to create the file in. If not given, creates the file using \$File::Spec::tmpdir(). Generally, you can override this choice using the \$ENV{\text{TMPDIR}} environment variable. But see the \text{File::Spec}\text{File::Spec} documentation for your system. Note that on many systems, if you're running in taint mode, then you must make sure that \$ENV{\text{TMPDIR}} is untainted for it to be used. Will \text{NOT} create \$tmpdir if it does not exist (this is a change from prior versions!). Returns file handle and name:

\begin{verbatim}
my ($fh, $name) = Archive::Zip::tempFile();
my ($fh, $name) = Archive::Zip::tempFile('myTempDir');
my $fh = Archive::Zip::tempFile();  # if you don't need the name
\end{verbatim}

=over 4

=item members()

Return a copy of the members array

\begin{verbatim}
my @members = $zip->members();
\end{verbatim}

=item numberOfMembers()

Return the number of members I have

=item memberNames()

Return a list of the (internal) file names of the zip members

=item memberNamed( $string )

=item memberNamed( { zipName => $string } )

=back
Return ref to member whose filename equals given filename or undef. 
C<$string> must be in Zip (Unix) filename format.

=item membersMatching( $regex )

=item membersMatching( { regex => $regex } )

Return array of members whose filenames match given regular expression in list context. Returns number of matching members in scalar context.

    my @textFileMembers = $zip->membersMatching( '.*\.txt' );
    # or
    my $numberOfTextFiles = $zip->membersMatching( '.*\.txt' );

=item diskNumber()

Return the disk that I start on. Not used for writing zips, but might be interesting if you read a zip in. This should be 0, as Archive::Zip does not handle multi-volume archives.

=item diskNumberWithStartOfCentralDirectory()

Return the disk number that holds the beginning of the central directory. Not used for writing zips, but might be interesting if you read a zip in. This should be 0, as Archive::Zip does not handle multi-volume archives.

=item numberOfCentralDirectoriesOnThisDisk()

Return the number of CD structures in the zipfile last read in. Not used for writing zips, but might be interesting if you read a zip in.

=item numberOfCentralDirectories()

Return the number of CD structures in the zipfile last read in. Not used for writing zips, but might be interesting if you read a zip in.

=item centralDirectorySize()

Returns central directory size, as read from an external zip file. Not used for writing zips, but might be interesting if you read a zip in.

=item centralDirectoryOffsetWRTStartingDiskNumber()
Returns the offset into the zip file where the CD begins. Not used for writing zips, but might be interesting if you read a zip in.

=item zipfileComment( [ $string ] )

=item zipfileComment( [ { comment => $string } ] )

Get or set the zipfile comment. Returns the old comment.

    print $zip->zipfileComment();
    $zip->zipfileComment( 'New Comment' );

=item eocdOffset()

Returns the (unexpected) number of bytes between where the EOCD was found and where it expected to be. This is normally 0, but would be positive if something (a virus, perhaps) had added bytes somewhere before the EOCD. Not used for writing zips, but might be interesting if you read a zip in. Here is an example of how you can diagnose this:

    my $zip = Archive::Zip->new('somefile.zip');
    if ($zip->eocdOffset())
    {
        warn "A virus has added ", $zip->eocdOffset, " bytes of garbage\n";
    }

The C<eocdOffset()> is used to adjust the starting position of member headers, if necessary.

=item fileName()

Returns the name of the file last read from. If nothing has been read yet, returns an empty string; if read from a file handle, returns the handle in string form.

=back

=head2 Zip Archive Member Operations

Various operations on a zip file modify members. When a member is passed as an argument, you can either use a reference to the member itself, or the name of a member. Of course, using the name requires that names be unique within a zip (this is not enforced).
=item removeMember( $memberOrName )

=item removeMember( { memberOrZipName => $memberOrName } )

Remove and return the given member, or match its name and remove it. Returns undef if member or name does not exist in this Zip. No-op if member does not belong to this zip.

=item replaceMember( $memberOrName, $newMember )

=item replaceMember( { memberOrZipName => $memberOrName, newMember => $newMember } )

Remove and return the given member, or match its name and remove it. Replace with new member. Returns undef if member or name does not exist in this Zip, or if C<$newMember> is undefined.

It is an (undiagnosed) error to provide a C<$newMember> that is a member of the zip being modified.

my $member1 = $zip->removeMember( 'xyz' );
my $member2 = $zip->replaceMember( 'abc', $member1 );
# now, $member2 (named 'abc') is not in $zip,
# and $member1 (named 'xyz') is, having taken $member2's place.

=item extractMember( $memberOrName [, $extractedName ] )

=item extractMember( { memberOrZipName => $memberOrName [, name => $extractedName ] } )

Extract the given member, or match its name and extract it. Returns undef if member does not exist in this Zip. If optional second arg is given, use it as the name of the extracted member. Otherwise, the internal filename of the member is used as the name of the extracted file or directory. If you pass C<$extractedName>, it should be in the local file system's format. All necessary directories will be created. Returns C<AZ_OK> on success.

=item extractMemberWithoutPaths( $memberOrName [, $extractedName ] )

=item extractMemberWithoutPaths( { memberOrZipName => $memberOrName [, name => $extractedName ] } )

Extract the given member, or match its name and extract it.
Does not use path information (extracts into the current directory). Returns undef if member does not exist in this Zip.
If optional second arg is given, use it as the name of the extracted member (its paths will be deleted too). Otherwise, the internal filename of the member (minus paths) is used as the name of the extracted file or directory. Returns C<AZ_OK> on success.

=item addMember( $member )

=item addMember( { member => $member } )

Append a member (possibly from another zip file) to the zip file. Returns the new member. Generally, you will use addFile(), addDirectory(), addFileOrDirectory(), addString(), or read() to add members.

    # Move member named 'abc' to end of zip:
    my $member = $zip->removeMember( 'abc' );
    $zip->addMember( $member );

=item updateMember( $memberOrName, $fileName )
=item updateMember( { memberOrZipName => $memberOrName, name => $fileName } )

Update a single member from the file or directory named C<$fileName>. Returns the (possibly added or updated) member, if any; C<undef> on errors.
The comparison is based on C<lastModTime()> and (in the case of a non-directory) the size of the file.

=item addFile( $fileName [, $newName, $compressionLevel ] )
=item addFile( { filename => $fileName
  [, zipName => $newName, compressionLevel => $compressionLevel ] ] )

Append a member whose data comes from an external file, returning the member or undef. The member will have its file name set to the name of the external file, and its desiredCompressionMethod set to COMPRESSION_DEFLATED. The file attributes and last modification time will be set from the file.
If the name given does not represent a readable plain file or symbolic link, undef will be returned. C<$fileName> must be in the format required for the local file system.
The optional C<$newName> argument sets the internal file name to something different than the given $fileName. C<$newName>,

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if given, must be in Zip name format (i.e. Unix).
The text mode bit will be set if the contents appears to be
text (as returned by the C<-T> perl operator).

I<NOTE> that you should not (generally) use absolute path names
in zip member names, as this will cause problems with some zip
tools as well as introduce a security hole and make the zip
harder to use.

=item addDirectory( $directoryName [, $fileName ] )

=item addDirectory( { directoryName => $directoryName
[, , zipName => $fileName ] } )

Append a member created from the given directory name. The
directory name does not have to name an existing directory.
If the named directory exists, the file modification time and
permissions are set from the existing directory, otherwise
they are set to now and permissive default permissions.
C<$directoryName> must be in local file system format.
The optional second argument sets the name of the archive
member (which defaults to C<$directoryName>). If given, it
must be in Zip (Unix) format.
Returns the new member.

=item addFileOrDirectory( $name [, $newName, $compressionLevel ] )

=item addFileOrDirectory( { name => $name [, zipName => $newName, compressionLevel => $compressionLevel ] } )

Append a member from the file or directory named $name. If
$newName is given, use it for the name of the new member.
Will add or remove trailing slashes from $newName as needed.
C<$name> must be in local file system format.
The optional second argument sets the name of the archive
member (which defaults to C<$name>). If given, it must be in
Zip (Unix) format.

=item addString( $stringOrStringRef, $name, [$compressionLevel] )

=item addString( { string => $stringOrStringRef [, zipName => $name, compressionLevel => $compressionLevel ] } )

Append a member created from the given string or string
reference. The name is given by the second argument.
Returns the new member. The last modification time will be set to now, and the file attributes will be set to permissive defaults.

    my $member = $zip->addString('This is a test', 'test.txt');

=item contents($memberOrMemberName [, $newContents ])

=item contents( { memberOrZipName => $memberOrMemberName [, contents => $newContents ] } )

Returns the uncompressed data for a particular member, or undef.

    print "xyz.txt contains " . $zip->contents('xyz.txt');

Also can change the contents of a member:

    $zip->contents('xyz.txt', 'This is the new contents');

If called expecting an array as the return value, it will include the status as the second value in the array.

    ($content, $status) = $zip->contents('xyz.txt');

=back

=head2 Zip Archive I/O operations

A Zip archive can be written to a file or file handle, or read from one.

=over 4

=item writeToFileNamed($fileName)

=item writeToFileNamed( { fileName => $fileName } )

Write a zip archive to named file. Returns C<AZ_OK> on success.

    my $status = $zip->writeToFileNamed('xx.zip');
    die "error somewhere" if $status != AZ_OK;

Note that if you use the same name as an existing zip file that you read in, you will clobber ZipFileMembers. So
instead, write to a different file name, then delete the original.
If you use the C<overwrite()> or C<overwriteAs()> methods, you can re-write the original zip in this way.
C<$fileName> should be a valid file name on your system.

=item writeToFileHandle( $fileHandle [, $seekable ] )

Write a zip archive to a file handle. Return AZ_OK on success. The optional second arg tells whether or not to try to seek backwards to re-write headers. If not provided, it is set if the Perl C<-f> test returns true. This could fail on some operating systems, though.

    my $fh = IO::File->new( 'someFile.zip', 'w' );
    unless ( $zip->writeToFileHandle( $fh ) == AZ_OK ) {
        # error handling
    }

If you pass a file handle that is not seekable (like if you're writing to a pipe or a socket), pass a false second argument:

    my $fh = IO::File->new( '| cat > somefile.zip', 'w' );
    $zip->writeToFileHandle( $fh, 0 );  # fh is not seekable

If this method fails during the write of a member, that member and all following it will return false from C<wasWritten()>. See writeCentralDirectory() for a way to deal with this.
If you want, you can write data to the file handle before passing it to writeToFileHandle(); this could be used (for instance) for making self-extracting archives. However, this only works reliably when writing to a real file (as opposed to STDOUT or some other possible non-file).

See examples/selfex.pl for how to write a self-extracting archive.

=item writeCentralDirectory( $fileHandle [, $offset ] )

=item writeCentralDirectory( { fileHandle => $fileHandle
                      [, offset => $offset ] } )

 Writes the central directory structure to the given file handle.

Returns AZ_OK on success. If given an $offset, will
seek to that point before writing. This can be used for recovery in cases where writeToFileHandle or writeToFileNamed returns an IO error because of running out of space on the destination file.

You can truncate the zip by seeking backwards and then writing the directory:

```perl
my $fh = IO::File->new( 'someFile.zip', 'w' );
my $retval = $zip->writeToFileHandle( $fh );
if ( $retval == AZ_IO_ERROR ) {
    my @unwritten = grep { not $_->wasWritten() } $zip->members();
    if (@unwritten) {
        $zip->removeMember( $member ) foreach my $member ( @unwritten );
        $zip->writeCentralDirectory( $fh, $unwritten[0]->writeLocalHeaderRelativeOffset() );
    }
}
```

=item overwriteAs( $newName )

=item overwriteAs( { filename => $newName } )

Write the zip to the specified file, as safely as possible. This is done by first writing to a temp file, then renaming the original if it exists, then renaming the temp file, then deleting the renamed original if it exists. Returns AZ_OK if successful.

=item overwrite()

Write back to the original zip file. See overwriteAs() above. If the zip was not ever read from a file, this generates an error.

=item read( $fileName )

=item read( { filename => $fileName } )

Read zipfile headers from a zip file, appending new members. Returns C<AZ_OK> or error code.

```perl
my $zipFile = Archive::Zip->new();
my $status = $zipFile->read( '/some/FileName.zip' );
```

=item readFromFileHandle( $fileHandle, $filename )

=item readFromFileHandle( { fileHandle => $fileHandle, filename => $filename } )
Read zipfile headers from an already-opened file handle, appending new members. Does not close the file handle. Returns C<AZ_OK> or error code. Note that this requires a seekable file handle; reading from a stream is not yet supported, but using in-memory data is.

```perl
my $fh = IO::File->new( '/some/FileName.zip', 'r' );
my $zip1 = Archive::Zip->new();
my $status = $zip1->readFromFileHandle( $fh );
my $zip2 = Archive::Zip->new();
$status = $zip2->readFromFileHandle( $fh );
```

Read zip using in-memory data (recursable):

```perl
open my $fh, "<", "archive.zip" or die $!
my $zip_data = do { local $.; <$fh> }
my $zip = Archive::Zip->new;
open my $dh, "<+", \$zip_data;
$zip->readFromFileHandle ($dh);
```

=head2 Zip Archive Tree operations

These used to be in Archive::Zip::Tree but got moved into Archive::Zip. They enable operation on an entire tree of members or files.

A usage example:

```perl
use Archive::Zip;
my $zip = Archive::Zip->new();

# add all readable files and directories below . as xyz/*
$zip->addTree( '.', 'xyz' );

# add all readable plain files below /abc as def/*
$zip->addTree( '/abc', 'def', sub { -f && -r } );

# add all .c files below /tmp as stuff/*
$zip->addTreeMatching( '/tmp', 'stuff', '*.c$' );

# add all .o files below /tmp as stuff/* if they aren't writable
$zip->addTreeMatching( '/tmp', 'stuff', '*.o$', sub { ! -w } );

# add all .so files below /tmp that are smaller than 200 bytes as stuff/*
$zip->addTreeMatching( '/tmp', 'stuff', '*.o$', sub { -s < 200 } );
```
# and write them into a file
$zip->writeToFileNamed('xxx.zip');
# now extract the same files into /tmpx
$zip->extractTree( 'stuff', '/tmpx' );
=over 4
=item $zip->addTree( $root, $dest [, $pred, $compressionLevel ] ) -- Add tree of files to a zip
=item $zip->addTree( { root => $root, zipName => $dest [, select => $pred,
compressionLevel => $compressionLevel ] )
C<$root> is the root of the tree of files and directories to be
added. It is a valid directory name on your system. C<$dest> is
the name for the root in the zip file (undef or blank means
to use relative pathnames). It is a valid ZIP directory name
(that is, it uses forward slashes (/) for separating
directory components). C<$pred> is an optional subroutine
reference to select files: it is passed the name of the
prospective file or directory using C<$_>, and if it returns
true, the file or directory will be included. The default is
to add all readable files and directories. For instance,
using
my $pred = sub { /\.txt/ };
$zip->addTree( '.', '', $pred );
will add all the .txt files in and below the current
directory, using relative names, and making the names
identical in the zipfile:
original name
zip member name
./xyz
xyz
./a/
a/
./a/b
a/b
To translate absolute to relative pathnames, just pass them
in: $zip->addTree( '/c/d', 'a' );
original name
/c/d/xyz
/c/d/a/
/c/d/a/b

zip member name
a/xyz
a/a/
a/a/b

Returns AZ_OK on success. Note that this will not follow
symbolic links to directories. Note also that this does not
check for the validity of filenames.

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Note that you generally don't want to make zip archive member names absolute.

=item $zip->addTreeMatching( $root, $dest, $pattern [, $pred, $compressionLevel ] )

=item $zip->addTreeMatching( { root => $root, zipName => $dest, pattern => $pattern [, select => $pred, compressionLevel => $compressionLevel ] } )

$root is the root of the tree of files and directories to be added $dest is the name for the root in the zip file (undef means to use relative pathnames) $pattern is a (non-anchored) regular expression for filenames to match $pred is an optional subroutine reference to select files: it is passed the name of the prospective file or directory in C<$_>, and if it returns true, the file or directory will be included. The default is to add all readable files and directories. To add all files in and below the current directory whose names end in C<.pl>, and make them extract into a subdirectory named C<xyz>, do this:

$zip->addTreeMatching( '.', 'xyz', '\.pl$' )

To add all I<writable> files in and below the directory named C</abc> whose names end in C<.pl>, and make them extract into a subdirectory named C<xyz>, do this:

$zip->addTreeMatching( '/abc', 'xyz', '\.pl$', sub { -w } )

Returns AZ_OK on success. Note that this will not follow symbolic links to directories.

=item $zip->updateTree( $root [, $dest , $pred , $mirror, $compressionLevel ] );

=item $zip->updateTree( { root => $root [, zipName => $dest, select => $pred, mirror => $mirror, compressionLevel => $compressionLevel ] } );

Update a zip file from a directory tree.

C<updateTree()> takes the same arguments as C<addTree()> but first checks to see whether the file or directory already exists in the zip file, and whether it has been changed.

If the fourth argument C<$mirror> is true, then delete all my members if corresponding files were not found.

Returns an error code or AZ_OK if all is well.
If you don’t give any arguments at all, will extract all the
files in the zip with their original names.

If you supply one argument for $root, extractTree will extract
all the members whose names start with $root into the current
directory, stripping off $root first. $root is in Zip (Unix) format.
For instance,

$zip->extractTree( 'a' );

when applied to a zip containing the files:
a/x a/b/c ax/d/e d/e will extract:

a/x as ./x
a/b/c as ./b/c

If you give two arguments, extractTree extracts all the members
whose names start with $root. It will translate $root into
$dest to construct the destination file name. $root and $dest are in Zip (Unix) format.
For instance,

$zip->extractTree( 'a', 'd/e' );

when applied to a zip containing the files:
a/x a/b/c ax/d/e d/e will extract:

a/x to d/e/x
a/b/c to d/e/b/c and ignore ax/d/e and d/e

If you give three arguments, extractTree extracts all the members
whose names start with $root. It will translate $root into
$dest to construct the destination file name, and then it will
convert to local file system format, using $volume as the name of
the destination volume.

$root and $dest are in Zip (Unix) format.

$volume is in local file system format.

For instance, under Windows,
$zip->extractTree( 'a', 'd/e', 'f:' );

when applied to a zip containing the files:
a/x a/b/c ax/d/e d/e will extract:

a/x to f:d/e/x

a/b/c to f:d/e/b/c and ignore ax/d/e and d/e

If you want absolute paths (the prior example used paths relative to
the current directory on the destination volume, you can specify these
in C<$dest>:

$zip->extractTree( 'a', '/d/e', 'f:' );

when applied to a zip containing the files:
a/x a/b/c ax/d/e d/e will extract:

a/x to f:\d\e\x

a/b/c to f:\d\e\b\c and ignore ax/d/e and d/e

Returns an error code or AZ_OK if everything worked OK.

=back

=head1 Archive::Zip Global Variables

=over 4

=item $Archive::Zip::UNICODE

This variable governs how Unicode file and directory names are added
to or extracted from an archive. If set, file and directory names are considered
to be UTF-8 encoded. This is I<EXPERIMENTAL AND BUGGY> (there are some edge cases
on Win32). Please report problems.

{  
  local $Archive::Zip::UNICODE = 1;
  $zip->addFile('Déjà vu.txt');
}

=back

=head1 MEMBER OPERATIONS

=head2 Member Class Methods
Several constructors allow you to construct members without adding them to a zip archive. These work the same as the addFile(), addDirectory(), and addString() zip instance methods described above, but they don't add the new members to a zip.

=item Archive::Zip::Member->newFromString( $stringOrStringRef [, $fileName ] )
=item Archive::Zip::Member->newFromString( { string => $stringOrStringRef [, zipName => $fileName ] )

Construct a new member from the given string. Returns undef on error.

    my $member = Archive::Zip::Member->newFromString( 'This is a test',

=item newFromFile( $fileName [, $zipName ] )
=item newFromFile( { filename => $fileName [, zipName => $zipName ] } )

Construct a new member from the given file. Returns undef on error.

    my $member = Archive::Zip::Member->newFromFile( 'xyz.txt' );

=item newDirectoryNamed( $directoryName [, $zipname ] )
=item newDirectoryNamed( { directoryName => $directoryName [, zipName => $zipname ] } )

Construct a new member from the given directory. $directoryName must be a valid name on your file system; it does not have to exist.

If given, $zipname will be the name of the zip member; it must be a valid Zip (Unix) name. If not given, it will be converted from $directoryName.

Returns undef on error.

    my $member = Archive::Zip::Member->newDirectoryNamed( 'CVS/' );

=head2 Member Simple accessors
These methods get (and/or set) member attribute values.

=item versionMadeBy()

Gets the field from the member header.

=item fileAttributeFormat( [ $format ] )

=item fileAttributeFormat( [ { format => $format } ] )

Gets or sets the field from the member header. These are C<FA_*> values.

=item versionNeededToExtract()

Gets the field from the member header.

=item bitFlag()

Gets the general purpose bit field from the member header. This is where the C<GPBF_*> bits live.

=item compressionMethod()

Returns the member compression method. This is the method that is currently being used to compress the member data. This will be COMPRESSION_STORED for added string or file members, or any of the C<COMPRESSION_*> values for members from a zip file. However, this module can only handle members whose data is in COMPRESSION_STORED or COMPRESSION_DEFLATED format.

=item desiredCompressionMethod( [ $method ] )

=item desiredCompressionMethod( [ { compressionMethod => $method } ] )

Get or set the member's C<desiredCompressionMethod>. This is the compression method that will be used when the member is written. Returns prior desiredCompressionMethod. Only COMPRESSION_DEFLATED or COMPRESSION_STORED are valid arguments. Changing to COMPRESSION_STORED will change the member desiredCompressionLevel to 0; changing to COMPRESSION_DEFLATED will change the member desiredCompressionLevel to COMPRESSION_LEVEL_DEFAULT.

=item desiredCompressionLevel( [ $level ] )
=item desiredCompressionLevel( [ { compressionLevel => $level } ] )

Get or set the member's desiredCompressionLevel. This is the method that will be used to write. Returns prior desiredCompressionLevel. Valid arguments are 0 through 9, COMPRESSION_LEVEL_NONE, COMPRESSION_LEVEL_DEFAULT, COMPRESSION_LEVEL_BEST_COMPRESSION, and COMPRESSION_LEVEL_FASTEST. 0 or COMPRESSION_LEVEL_NONE will change the desiredCompressionMethod to COMPRESSION_STORED. All other arguments will change the desiredCompressionMethod to COMPRESSION_DEFLATED.

=item externalFileName()

Return the member's external file name, if any, or undef.

=item fileName()

Get or set the member's internal filename. Returns the (possibly new) filename. Names will have backslashes converted to forward slashes, and will have multiple consecutive slashes converted to single ones.

=item lastModFileDateTime()

Return the member's last modification date/time stamp in MS-DOS format.

=item lastModTime()

Return the member's last modification date/time stamp, converted to unix localtime format.

    print "Mod Time: " . scalar( localtime( $member->lastModTime() ) );

=item setLastModFileDateTimeFromUnix()

Set the member's lastModFileDateTime from the given unix time.

    $member->setLastModFileDateTimeFromUnix( time() );

=item internalFileAttributes()

Return the internal file attributes field from the zip header. This is only set for members read from a zip file.
=item externalFileAttributes()

Return member attributes as read from the ZIP file. Note that these are NOT UNIX!

=item unixFileAttributes( [ $newAttributes ] )

=item unixFileAttributes( [ { attributes => $newAttributes } ] )

Get or set the member's file attributes using UNIX file attributes. Returns old attributes.

    my $oldAttribs = $member->unixFileAttributes( 0666 );

Note that the return value has more than just the file permissions, so you will have to mask off the lowest bits for comparisons.

=item localExtraField( [ $newField ] )

=item localExtraField( [ { field => $newField } ] )

Gets or sets the extra field that was read from the local header. This is not set for a member from a zip file until after the member has been written out. The extra field must be in the proper format.

=item cdExtraField( [ $newField ] )

=item cdExtraField( [ { field => $newField } ] )

Gets or sets the extra field that was read from the central directory header. The extra field must be in the proper format.

=item extraFields()

Return both local and CD extra fields, concatenated.

=item fileComment( [ $newComment ] )

=item fileComment( [ { comment => $newComment } ] )

Get or set the member's file comment.

=item hasDataDescriptor()

Get or set the data descriptor flag. If this is set, the
local header will not necessarily have the correct data sizes. Instead, a small structure will be stored at the end of the member data with these values. This should be transparent in normal operation.

=item crc32()

Return the CRC-32 value for this member. This will not be set for members that were constructed from strings or external files until after the member has been written.

=item crc32String()

Return the CRC-32 value for this member as an 8 character printable hex string. This will not be set for members that were constructed from strings or external files until after the member has been written.

=item compressedSize()

Return the compressed size for this member. This will not be set for members that were constructed from strings or external files until after the member has been written.

=item uncompressedSize()

Return the uncompressed size for this member.

=item password( [ $password ] )

Returns the password for this member to be used on decryption. If $password is given, it will set the password for the decryption.

=item isEncrypted()

Return true if this member is encrypted. The Archive::Zip module does not currently support creation of encrypted members. Decryption works more or less like this:

my $zip = Archive::Zip->new;
$zip->read("encrypted.zip");
for my $m (map { $zip->memberNamed($_) } $zip->memberNames) {
    $m->password("secret");
    $m->contents; # is "" when password was wrong

That shows that the password has to be set per member, and not per archive. This might change in the future.
=item isTextFile( [ $flag ] )

=item isTextFile( [ { flag => $flag } ] )

Returns true if I am a text file. Also can set the status if given an argument (then returns old state). Note that this module does not currently do anything with this flag upon extraction or storage. That is, bytes are stored in native format whether or not they came from a text file.

=item isBinaryFile()

Returns true if I am a binary file. Also can set the status if given an argument (then returns old state). Note that this module does not currently do anything with this flag upon extraction or storage. That is, bytes are stored in native format whether or not they came from a text file.

=item extractToFileNamed( $fileName )

=item extractToFileNamed( { name => $fileName } )

Extract me to a file with the given name. The file will be created with default modes. Directories will be created as needed. The $C<$fileName> argument should be a valid file name on your file system. Returns AZ_OK on success.

=item isDirectory()

Returns true if I am a directory.

=item writeLocalHeaderRelativeOffset()

Returns the file offset in bytes the last time I was written.

=item wasWritten()

Returns true if I was successfully written. Reset at the beginning of a write attempt.

=back

=head2 Low-level member data reading

It is possible to use lower-level routines to access member data streams, rather than the extract* methods and contents(). For
instance, here is how to print the uncompressed contents of a member in chunks using these methods:

```perl
my ( $member, $status, $bufferRef );
$member = $zip->memberNamed( 'xyz.txt' );
$member->desiredCompressionMethod( COMPRESSION_STORED );
$status = $member->rewindData();
die "error $status" unless $status == AZ_OK;
while ( ! $member->readIsDone() )
  {
    ( $bufferRef, $status ) = $member->readChunk();
    die "error $status"
      if $status != AZ_OK && $status != AZ_STREAM_END;
    # do something with $bufferRef:
    print $$bufferRef;
  }
$member->endRead();
```

```perl
=item readChunk( [ $chunkSize ] )
```

```perl
=item readChunk( [ { chunkSize => $chunkSize } ] )
```

This reads the next chunk of given size from the member's data stream and compresses or uncompresses it as necessary, returning a reference to the bytes read and a status. If size argument is not given, defaults to global set by `Archive::Zip::setChunkSize`. Status is AZ_OK on success until the last chunk, where it returns AZ_STREAM_END. Returns C<(\$bytes, $status)>.

```perl
my ( $outRef, $status ) = $self->readChunk();
print $outRef if $status != AZ_OK && $status != AZ_STREAM_END;
```

```perl
=item rewindData()
```

Rewind data and set up for reading data streams or writing zip files. Can take options for C<inflateInit()> or C<deflateInit()>, but this is not likely to be necessary. Subclass overrides should call this method. Returns C<AZ_OK> on success.

```perl
=item endRead()
```

Reset the read variables and free the inflator or deflater. Must be called to close files, etc. Returns AZ_OK on success.
readIsDone()

Return true if the read has run out of data or encountered an error.

contents()

Return the entire uncompressed member data or undef in scalar context. When called in array context, returns C<$string, $status>;
status will be AZ_OK on success:

my $string = $member->contents();
# or
my ( $string, $status ) = $member->contents();
die "error $status" unless $status == AZ_OK;

Can also be used to set the contents of a member (this may change the class of the member):

$member->contents( "this is my new contents" );

extractToFileHandle( $fh )

extractToFileHandle( { fileHandle => $fh } )

Extract (and uncompress, if necessary) the member's contents to the given file handle. Return AZ_OK on success.

Archive::Zip::FileMember methods

The Archive::Zip::FileMember class extends Archive::Zip::Member. It is the base class for both ZipFileMember and NewFileMember classes. This class adds an C<externalFileName> and an C<fh> member to keep track of the external file.

externalFileName()

Return the member's external filename.

fh()

Return the member's read file handle. Automatically opens file if necessary.
Archive::Zip::ZipFileMember methods

The Archive::Zip::ZipFileMember class represents members that have been read from external zip files.

over 4

- **diskNumberStart()**
  
  Returns the disk number that the member's local header resides in. Should be 0.

- **localHeaderRelativeOffset()**
  
  Returns the offset into the zip file where the member's local header is.

- **dataOffset()**
  
  Returns the offset from the beginning of the zip file to the member's data.

REQUIRED MODULES

L<Archive::Zip> requires several other modules:

L<Carp>

L<Compress::Raw::Zlib>

L<Cwd>

L<File::Basename>

L<File::Copy>

L<File::Find>

L<File::Path>

L<File::Spec>

L<IO::File>

L<IO::Seekable>
L<Time::Local>

=head1 BUGS AND CAVEATS

=head2 When not to use Archive::Zip

If you are just going to be extracting zips (and/or other archives) you are recommended to look at using L<Archive::Extract> instead, as it is much easier to use and factors out archive-specific functionality.

=head2 Try to avoid IO::Scalar

One of the most common ways to use Archive::Zip is to generate Zip files in-memory. Most people use L<IO::Scalar> for this purpose.

Unfortunately, as of 1.11 this module no longer works with L<IO::Scalar> as it incorrectly implements seeking.

Anybody using L<IO::Scalar> should consider porting to L<IO::String>, which is smaller, lighter, and is implemented to be perfectly compatible with regular seekable filehandles.

Support for L<IO::Scalar> most likely will B<not> be restored in the future, as L<IO::Scalar> itself cannot change the way it is implemented due to back-compatibility issues.

=head2 Wrong password for encrypted members

When an encrypted member is read using the wrong password, you currently have to re-read the entire archive to try again with the correct password.

=head1 TO DO

* auto-choosing storing vs compression

* extra field hooks (see notes.txt)

* check for duplicates on addition/renaming?

* Text file extraction (line end translation)

* Reading zip files from non-seekable inputs (Perhaps by proxying through IO::String?)

* separate unused constants into separate module

* cookbook style docs
* Handle tainted paths correctly

* Work on better compatibility with other IO:: modules

* Support encryption

* More user-friendly decryption

=head1 SUPPORT

Bugs should be reported via the CPAN bug tracker


For other issues contact the maintainer

=head1 AUTHOR

Currently maintained by Fred Moyer <fred@redhotpenguin.com>

Previously maintained by Adam Kennedy <adamk@cpan.org>

Previously maintained by Steve Peters <steve@fisharerojo.org>

File attributes code by Maurice Aubrey <maurice@lovelyfilth.com>

Originally by Ned Konz <nedkonz@cpan.org>

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=head1 SEE ALSO

Look at Archive::Zip::MemberRead which is a wrapper that allows one to read Zip archive members as if they were files.

Compress::Raw::Zlib, Archive::Tar, Archive::Extract
# Copyright (c) 1990-2007 Info-ZIP. All rights reserved.
# not copyrighted and put in the public domain. If you cannot comply
# public domain versions.

Found in path(s):
* /opt/cola/permits/1178584762_1625692064.33/0/perl-Archive-Zip-1.60-3.el8-1.src.rpm-cosi-expand-archive-WCMbTJuL/Archive-Zip-1.60.tar.gz-cosi-expand-archive-HesBTOOz/Archive-Zip-1.60/lib/Archive/Zip.pm
No license file was found, but licenses were detected in source scan.

=back

=head1 AUTHOR

Sreeji K. Das E<lt>sreeji_k@yahoo.comE<gt>

See L<Archive::Zip> by Ned Konz without which this module does not make
any sense!

Minor mods by Ned Konz.

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=cut

Found in path(s):
* /opt/cola/permits/1178584762_1625692064.33/0/perl-Archive-Zip-1.60-3.el8-1.src.rpm-cosi-expand-archive-WCMbTJuL/Archive-Zip-1.60.tar.gz-cosi-expand-archive-HesBTOOz/Archive-Zip-1.60/lib/Archive/Zip/Member.pm
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---
abstract: 'Provide an interface to ZIP archive files.'
author:
  - 'Ned Konz <perl@bike-nomad.com>'
build_requires:
  ExtUtils::MakeMaker: '0'
Test::MockModule: '0'
Test::More: '0.88'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 0

generated_by: 'ExtUtils::MakeMaker version 7.3, 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: Archive-Zip
no_index:
  directory:
    - t
    - inc
requires:
  Compress::Raw::Zlib: '2.017'
  File::Basename: '0'
  File::Copy: '0'
  File::Find: '0'
  File::Path: '0'
  File::Spec: '0.80'
  File::Temp: '0'
  IO::File: '0'
  IO::Handle: '0'
  IO::Seekable: '0'
  Time::Local: '0'
perl: '5.006'
resources:
  bugtracker: https://rt.cpan.org/Public/Dist/Display.html?Name=Archive-Zip
  repository: https://github.com/redhotpenguin/perl-Archive-Zip.git
  version: '1.60'
  x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
  /opt/cola/permits/1178584762_1625692064.33/0/perl-Archive-Zip-1.60-3.el8-1.src.rpm-cosi-expand-archive-WCMbTJuL/Archive-Zip-1.60.tar.gz-cosi-expand-archive-HesBTOOz/Archive-Zip-1.60/META.yml

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

=head1 NAME

Archive::Zip::Tree - (DEPRECATED) methods for adding/extracting trees using Archive::Zip

=head1 DESCRIPTION

This module is deprecated, because all its methods were moved into the main Archive::Zip module.
It is included in the distribution merely to avoid breaking old code.

See L<Archive::Zip>.

=head1 AUTHOR

Ned Konz, perl@bike-nomad.com

=head1 COPYRIGHT

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=head1 SEE ALSO

L<Archive::Zip>

=cut

Found in path(s):
* /opt/cola/permits/1178584762_1625692064.33/0/perl-Archive-Zip-1.60-3.el8-1.src.rpm-cosi-expand-archive-WCMbJUl/Archive-Zip-1.60.tar.gz-cosi-expand-archive-HesBTOOz/Archive-Zip-1.60/lib/Archive/Zip/Tree.pm

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

# Archive-Zip

The Archive::Zip module allows a Perl program to create, manipulate, read, and write Zip archive files.

See https://metacpan.org/pod/Archive::Zip for more information.

# INSTALLATION

To install this module, run the following commands:

perl Makefile.PL
make
make test
make install

# SUPPORT AND DOCUMENTATION

After installing, you can find documentation for this module with the perldoc command.
perldoc Archive::Zip

# SUPPORT

Bugs should be reported via the CPAN bug tracker


For other issues contact the maintainer

# AUTHOR

Currently maintained by Fred Moyer <fred@redhotpenguin.com>

Previously maintained by Adam Kennedy <adamk@cpan.org>

Previously maintained by Steve Peters <steve@fisharerojo.org>.

File attributes code by Maurice Aubrey <maurice@lovelyfilth.com>.

Originally by Ned Konz <nedkonz@cpan.org>

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

License: (GPL+ or Artistic) and BSD

Found in path(s):
* /opt/cola/permits/1178584762_1625692064.33/0/perl-Archive-Zip-1.60-3.el8-1.src.rpm-cosi-expand-archive-WCMbTJuL/perl-Archive-Zip.spec
1.1323 spring-beans 5.1.9.RELEASE

1.1324 libnetfilter-queue 1.0.2 2.el7_2

1.1324.1 Available under license:

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Version 2, June 1991

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abstract: 'PerlIO Layer for quoted-printable encoding'
author:
- 'Elizabeth Mattijsen (liz@dijkmat.nl)'
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.62, CPAN::Meta::Converter version 2.112150'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: PerlIO-via-QuotedPrint
no_index:
directory:
  - t
  - inc
requires:
  MIME::QuotedPrint: 0
version: 0.08

Found in path(s):
* /opt/cola/permits/1139282049_1614508106.87/0/perl-PerlIO-via-QuotedPrint-0.08-395.el8-1.src.rpm-cosi-expand-archive-gOxBpDa2/PerlIO-via-QuotedPrint-0.08.tar.gz-cosi-expand-archive-BDU4supk/PerlIO-via-QuotedPrint-0.08/META.yml

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README for PerlIO::via::QuotedPrint

PerlIO layer that handles automatic conversion from and to quoted-printable format. Intended to be used while opening a file with the "via()" layer.

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Version:
0.08

Required Modules:
MIME::QuotedPrint (any)

The build is standard:

perl Makefile.PL
make
make test
make install

Found in path(s):
* /opt/cola/permits/1139282049_1614508106.87/0/perl-PerlIO-via-QuotedPrint-0.08-395.el8-1.src.rpm-cosi-expand-archive-gOxBpDa2/PerlIO-via-QuotedPrint-0.08.tar.gz-cosi-expand-archive-BDU4supk/PerlIO-via-QuotedPrint-0.08/README
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Found in path(s):
* /opt/cola/permits/1139282049_1614508106.87/0/perl-PerlIO-via-QuotedPrint-0.08-395.el8-1.src.rpm-cosi-expand-archive-gOxBpDa2/perl-PerlIO-via-QuotedPrint.spec
No license file was found, but licenses were detected in source scan.

=head1 NAME

PerlIO::via::QuotedPrint - PerlIO layer for quoted-printable strings

=head1 SYNOPSIS

use PerlIO::via::QuotedPrint;

open( my $in, '<:via(QuotedPrint)', 'file.qp' )
  or die "Can't open file.qp for reading: $!\n";

open( my $out, '>:via(QuotedPrint)', 'file.qp' )
  or die "Can't open file.qp for writing: $!\n";

=head1 VERSION

This documentation describes version 0.08.

=head1 DESCRIPTION

This module implements a PerlIO layer that works on files encoded in the quoted-printable format. It will decode from quoted-printable while reading from a handle, and it will encode as quoted-printable while writing to a handle.

=head1 REQUIRED MODULES
MIME::QuotedPrint (any)

=head1 SEE ALSO

L<PerlIO::via>, L<MIME::QuotedPrint>, L<PerlIO::via::Base64>,
L<PerlIO::via::MD5>, L<PerlIO::via::StripHTML>, L<PerlIO::via::Rotate>.

=head1 ACKNOWLEDGEMENTS

Based on example that was initially added to MIME::QuotedPrint.pm for the
5.8.0 distribution of Perl.

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=cut

Found in path(s):
* /opt/cola/permits/1139282049_1614508106.87/0/perl-PerlIO-via-QuotedPrint-0.08-395.el8-1.src.rpm-cosi-
expand-archive-gOxBpDa2/PerlIO-via-QuotedPrint-0.08.tar.gz-cosi-expand-archive-BDU4supk/PerlIO-via-
QuotedPrint-0.08/lib/PerlIO/via/QuotedPrint.pm

1.1334 perl-params-check 0.38-395.el8
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Found in path(s):
* /opt/cola/permits/1139282419_1614507635.21/0/perl-Params-Check-0.38-395.el8-1.src.rpm-cosi-expand-archive-
44vDVY.dm/perl-Params-Check.spec
No license file was found, but licenses were detected in source scan.

---
abstract: 'Templated based param validation'
author:
- 'Jos Boumans <kane[at]cpan.org>'
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.68, CPAN::Meta::Converter version 2.131560'
Found in path(s):
* /opt/cola/permits/1139282419_1614507635.21/0/perl-Params-Check-0.38-395.el8-1.src.rpm-cosi-expand-archive-44vDVYdm/Params-Check-0.38.tar.gz-cosi-expand-archive-zm81yoAO/Params-Check-0.38/META.yml
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=head1 Global Variables
The behaviour of Params::Check can be altered by changing the following global variables:

=head2 $Params::Check::VERBOSE
This controls whether Params::Check will issue warnings and explanations as to why certain things may have failed.
If you set it to 0, Params::Check will not output any warnings.
The default is 1 when L<warnings> are enabled, 0 otherwise;

=head2 $Params::Check::STRICT_TYPE
This works like the C<strict_type> option you can pass to C<check>,
which will turn on C<strict_type> globally for all calls to C<check>.
The default is 0;

=head2 $Params::Check::ALLOW_UNKNOWN
If you set this flag, unknown options will still be present in the return value, rather than filtered out. This is useful if your subroutine is only interested in a few arguments, and wants to pass the rest on blindly to perhaps another subroutine.
The default is 0;

=head2 $Params::Check::STRIP_LEADING_DASHES

If you set this flag, all keys passed in the following manner:

    function( -key => 'val' );

will have their leading dashes stripped.

=head2 $Params::Check::NO_DUPLICATES

If set to true, all keys in the template that are marked as to be stored in a scalar, will also be removed from the result set.

Default is false, meaning that when you use C<store> as a template key, C<check> will put it both in the scalar you supplied, as well as in the hashref it returns.

=head2 $Params::Check::PRESERVE_CASE

If set to true, L<Params::Check> will no longer convert all keys from the user input to lowercase, but instead expect them to be in the case the template provided. This is useful when you want to use similar keys with different casing in your templates.

Understand that this removes the case-insensitivity feature of this module.

Default is 0;

=head2 $Params::Check::ONLY_ALLOW_DEFINED

If set to true, L<Params::Check> will require all values passed to be C<defined>. If you wish to enable this on a 'per key' basis, use the template option C<defined> instead.

Default is 0;

=head2 $Params::Check::SANITY_CHECK_TEMPLATE

If set to true, L<Params::Check> will sanity check templates, validating for errors and unknown keys. Although very useful for debugging, this can be somewhat slow in hot-code and large loops.

To disable this check, set this variable to C<false>.

Default is 1;
=head2 $Params::Check::WARNINGS_FATAL

If set to true, L<Params::Check> will C<croak> when an error during template validation occurs, rather than return C<false>.

Default is 0;

=head2 $Params::Check::CALLER_DEPTH

This global modifies the argument given to C<caller()> by C<Params::Check::check()> and is useful if you have a custom wrapper function around C<Params::Check::check()>. The value must be an integer, indicating the number of wrapper functions inserted between the real function call and C<Params::Check::check()>.

Example wrapper function, using a custom stacktrace:

    sub check {
        my ($template, $args_in) = @_;

        local $Params::Check::WARNINGS_FATAL = 1;
        local $Params::Check::CALLERDEPTH = $Params::Check::CALLERDEPTH + 1;
        my $args_out = Params::Check::check($template, $args_in);

        my_stacktrace(Params::Check::last_error) unless $args_out;

        return $args_out;
    }

Default is 0;

=head1 Acknowledgements

Thanks to Richard Soderberg for his performance improvements.

=head1 BUG REPORTS

Please report bugs or other issues to E<lt>bug-params-check@rt.cpan.orgE<gt>.

=head1 AUTHOR

This module by Jos Boumans E<lt>kane@cpan.orgE<gt>.

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This is the README file for Params::Check, a perl module for powerful template based param validation

Please refer to 'perldoc Params::Check' after installation for details.

#####################################################################
* Description

Params::Check

Allows for generic input checking and validating using a powerful templating system, providing default values and so on.

#####################################################################
* Installation

Params::Check follows the standard perl module install process

perl Makefile.PL
make
make test
make install

The module uses no C or XS parts, so no c-compiler is required.

#####################################################################

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1.1338 go-toml v1.8.1

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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/EmptyHeaders.java
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 */
/**
 * A decoder that splits the received ByteBufs dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 */
<p>
[@link LengthFieldBasedFrameDecoder] has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
*
* <h3>2 bytes length field at offset 0, do not strip header</h3>
*
* The value of the length field in this example is `<tt>12 (0x0C)</tt>` which
* represents the length of "HELLO, WORLD". By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field. Therefore, it can be decoded with the simplistic parameter
* combination.
*  
* `<pre>`  
*  
* **lengthFieldOffset** = `<b>0</b>`  
*  
* **lengthFieldLength** = `<b>2</b>`  
*  
* **lengthAdjustment** = 0  
*  
* **initialBytesToStrip** = 0 (= do not strip header)  
*  
*  
* * BEFORE DECODE (14 bytes)         * AFTER DECODE (14 bytes)  
* +--------+----------------+      +--------+----------------+  
* | Length | Actual Content |----->| Length | Actual Content |  
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |  
* +--------+----------------+      +--------+----------------+  
* </pre>`  
*  
* * `<h3>2 bytes length field at offset 0, strip header</h3>`  
*  
* Because we can get the length of the content by calling
* `<tt>@link ByteBuf#readableBytes()</tt>`, you might want to strip the length
* field by specifying `<tt>initialBytesToStrip</tt>`. In this example, we
* specified `<tt>2</tt>`, that is same with the length of the length field, to
* strip the first two bytes.
*  
* `<pre>`  
*  
* **lengthFieldOffset** = 0  
*  
* **lengthFieldLength** = 2  
*  
* **lengthAdjustment** = 0  
*  
* **initialBytesToStrip** = `<b>2</b>` (= the length of the Length field)  
*  
*  
* * BEFORE DECODE (14 bytes)         * AFTER DECODE (12 bytes)  
* +--------+----------------+      +----------------+  
* | Length | Actual Content |----->| Actual Content |  
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |  
* +--------+----------------+      +--------+----------------+  
* </pre>`  
*  
* * `<h3>2 bytes length field at offset 0, do not strip header, the length field
*     represents the length of the whole message</h3>`  
*  
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* `<tt>lengthAdjustment</tt>`. Because the length value in this example message
* is always greater than the body length by `<tt>2</tt>`, we specify `<tt>-2</tt>`
* as `<tt>lengthAdjustment</tt>` for compensation.
* <pre>
* lengthFieldOffset   =  0
* lengthFieldLength   =  2
* <b>b</b>lengthAdjustment</b>    = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip =  0
*
* BEFORE DECODE (14 bytes)    AFTER DECODE (14 bytes)
*  +--------+----------------+      +--------+----------------+
*  | Length | Actual Content |----->| Length | Actual Content |
*  | 0x000E  | "HELLO, WORLD" |      | 0x000E  | "HELLO, WORLD" |
* </pre>

* 3 bytes length field at the end of 5 bytes header, do not strip header</h3>

* The following message is a simple variation of the first example.  An extra
* header value is prepended to the message.  <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* <b>lengthFieldOffset</b>   = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b>   = <b>3</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
*  +----------+----------+----------------+      +----------+----------+----------------+
*  | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
*  |  0xCAFE  | 0x00000C | "HELLO, WORLD" |      |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
* </pre>

* 3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>

* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body.  You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 3
* <b>b</b>lengthAdjustment</b>    = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
*  +----------+----------+----------------+      +----------+----------+----------------+
*  |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
*  | 0x00000C | 0xCAFE  | "HELLO, WORLD" |      | 0x00000C | 0xCAFE  | "HELLO, WORLD" |
2 bytes length field at offset 1 in the middle of 4 bytes header,
strip the first header field and the length field

This is a combination of all the examples above. There are the prepended
header before the length field and the extra header after the length field.
The prepended header affects the \texttt{lengthFieldOffset} and the extra
header affects the \texttt{lengthAdjustment}. We also specified a non-zero
\texttt{initialBytesToStrip} to strip the length field and the prepended
header from the frame. If you don't want to strip the prepended header, you
could specify \texttt{0} for \texttt{initialBytesToSkip}.

BEFORE DECODE (16 bytes)                      AFTER DECODE (13 bytes)
\begin{verbatim}
+------+--------+------+----------------+      +------+----------------+
| HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
| 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
\end{verbatim}

2 bytes length field at offset 1 in the middle of 4 bytes header,
strip the first header field and the length field, the length field
represents the length of the whole message

Let's give another twist to the previous example. The only difference from
the previous example is that the length field represents the length of the
whole message instead of the message body, just like the third example.
We have to count the length of HDR1 and Length into \texttt{lengthAdjustment}.
Please note that we don't need to take the length of HDR2 into account
because the length field already includes the whole header length.

BEFORE DECODE (16 bytes)                      AFTER DECODE (13 bytes)
\begin{verbatim}
+------+--------+------+----------------+      +------+----------------+
| HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
| 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
\end{verbatim}
* @see LengthFieldPrepender
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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*/

/ */
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*/
/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
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*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/base64/Base64Dialect.java

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1.1348 base-files 11ubuntu5.4
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analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt

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analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
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1.1378 gophercloud v0.1.0
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package RESOURCE

import (  
    "github.com/gophercloud/gophercloud"  
    "github.com/gophercloud/gophercloud/pagination"
)

// RESOURCE represents...
type Resource struct {
}

type commonResult struct {
    gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method to interpret it as a RESOURCE.
type GetResult struct {
    commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
type CreateResult struct {
    commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
type DeleteResult struct {
    gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
    commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
    pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            Next string `json:"next"`
            Previous string `json:"previous"`
        } `json:"links"
    } err := r.ExtractInto(&s)
    if err != nil {
        return "", err
    }
    return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
    var s struct {
        Resources []Resource `json:"resources"
    } err := r.ExtractInto(&s)
    if err != nil { return nil, err }
    return s.Resources, err
}
Contributor Tutorial
====================

This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code
========================

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](.github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](.github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests
The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* [https://github.com/gophercloud/gophercloud/pull/584](https://github.com/gophercloud/gophercloud/pull/584)
* [https://github.com/gophercloud/gophercloud/pull/586](https://github.com/gophercloud/gophercloud/pull/586)
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* [https://github.com/gophercloud/gophercloud/pull/594](https://github.com/gophercloud/gophercloud/pull/594)

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.
An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request
---------------------------------

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're testing [step-04-acceptance-testing.md] with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

Dealing with Related Pull Requests
---------------------------------

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests
With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"
```
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child
  Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and
proceed to [Step 6](step-06-code-review.md).

Step 6: Code Review

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional
changes to your code.

While you're working on the finishing touches to your code, it is helpful
to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull
Request. As well, take advantage of the automatic testing that is done to
each commit.
### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review
---------------------

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used).

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes
-------------------
If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal
-------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

```go
package testing

import (
    "fmt"
    "net/http"
    "testing"

    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

// ListResult provides a single page of RESOURCE results.
const ListResult =`
{
}
`

// GetResult provides a Get result.
const GetResult =`
{
}
`

// CreateRequest provides the input to a Create request.
const CreateRequest =`
{
}
`
// UpdateRequest provides the input to an Update request.
const UpdateRequest = `{
}
`;

// UpdateResult provides an update result.
const UpdateResult = `{
}
`;

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{
}

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{
}

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{
}

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, ListResult)
    })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
    })
}
w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, GetResult)
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the // test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "POST")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
th.TestJSONRequest(t, r, CreateRequest)

w.WriteHeader(http.StatusCreated)
fmt.Fprintf(w, GetResult)
})
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the // test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "DELETE")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

w.WriteHeader(http.StatusNoContent)
})
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the // test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "PATCH")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, UpdateResult)
})
}

package RESOURCE

import ("github.com/gophercloud/gophercloud"
"github.com/gophercloud/gophercloud/pagination")
// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
    q, err := gophercloud.BuildQueryString(opts)
    return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
    if opts != nil {
        query, err := opts.ToResourceListQuery()
        if err != nil {
            return pagination.Pager{Err: err}
        }
        url += query
    }
        return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
    })
}

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    _, r.Err = client.Get(getURL(client, id), &r.Body, nil)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
    return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    _, r.Err = client.Delete(deleteURL(client, id), nil)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
}
package testing

import (
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0
        count++
        actual, err := resources.ExtractResources(page)
        th.AssertNoErr(t, err)
        th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
        return true, nil
    })
    th.AssertNoErr(t, err)
    th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
    actual, err := resources.ExtractResources(allPages)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
HandleGetResourceSuccessfully(t)

actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleCreateResourceSuccessfully(t)

    createOpts := resources.CreateOpts{
        Name: "resource two",
    }

    actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
    th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)

    res := resources.Delete(client.ServiceClient(), "9fe1d3")
    th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleUpdateResourceSuccessfully(t)

    updateOpts := resources.UpdateOpts{
        Description: "Staging Resource",
    }

    actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
    th.AssertNoErr(t, err)
th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

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package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}
func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

Step 7: Congratulations!
=========================

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

Step 4: Acceptance Testing
==========================

If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here]/(acceptance) to help you build your own small OpenStack environment for testing.
---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.```/

Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/

package RESOURCE

Step 2: Create an Issue

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* [https://github.com/gophercloud/gophercloud/issues/108](https://github.com/gophercloud/gophercloud/issues/108)
* [https://github.com/gophercloud/gophercloud/issues/212](https://github.com/gophercloud/gophercloud/issues/212)
* [https://github.com/gophercloud/gophercloud/issues/424](https://github.com/gophercloud/gophercloud/issues/424)
* [https://github.com/gophercloud/gophercloud/issues/588](https://github.com/gophercloud/gophercloud/issues/588)
* [https://github.com/gophercloud/gophercloud/issues/629](https://github.com/gophercloud/gophercloud/issues/629)
* [https://github.com/gophercloud/gophercloud/issues/647](https://github.com/gophercloud/gophercloud/issues/647)

Feature Request

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is start a discussion about whether or not the feature should be included in Gophercloud. We don't want to want to see you put in hours of work only to learn that the feature is out of
Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of
the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links _are_ required for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

Step 3: Code Hunting

==================================
If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example:
[https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621). In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package.

Meaning, we want to change:

```go
type Network struct {
    ID            string `json:"id"
    Name          string `json:"name"
    AdminStateUp  bool  `json:"admin_state_up"
    Status        string `json:"status"
    Subnets       []string `json:"subnets"
    TenantID      string `json:"tenant_id"
    Shared        bool  `json:"shared"
}
```

```go
```

to look like

```go
```

We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/).
However, the API docs might either be incorrect or they might not provide all of
the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying
> that the API docs aren't useful or that the contributors who work on the API
> docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update
> documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields,
the best source of information on how the field works is in the service code
itself.

Continuing on with using #621 as an example, we can find the definition of
`availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.
py#L191

The above code confirms that `availability_zone_hints` is indeed part of the
`Network` object and that its type is a list of strings (`[ ]string`).

This example is a best-case situation: the code is relatively easy to find
and it's simple to understand. However, there will be times when proving the
implementation in the service code is difficult. Make no mistake, this is _not_
fun work. This can sometimes be more difficult than writing the actual patch
for Gophercloud. However, this is an essential step to ensuring the feature
or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Code Hunting Tips

OpenStack projects differ from one to another. Code is organized in different
ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located
  in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on.
  Review all results to gain a good understanding of everywhere the field is
  used.
* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

**Step 1: Read Our Guides**

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

1.1379 libxfont 1.5.1 2.el7

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1.1396 perl-scalar-list-utils 1.27 248.el7

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1.1398 gonum-blas 0.1
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From e5a63c34a5c71fca25ae49a326c129fabaab8a3e Mon Sep 17 00:00:00 2001
From: Jan Chaloupka <jchaloup@redhat.com>
Date: Thu, 8 Oct 2015 13:40:35 +0200
Subject: [PATCH] add license

---
LICENSE | 23 +++++++++++++++++++++++
1 file changed, 23 insertions(+)
create mode 100644 LICENSE

diff --git a/LICENSE b/LICENSE
new file mode 100644
index 0000000..76edf5e
--- /dev/null
+++ b/LICENSE
@@ -0,0 +1,23 @@
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1.9.3

Found in path(s):
* /opt/cola/permits/1116230315_1608144853.18/0/golang-github-gonum-blas-0-0.1.mga7.src.rpm-cosi-expand-
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No license file was found, but licenses were detected in source scan.

From a4d3ca0439cb62fe7110b0923e7f3e5186f38808 Mon Sep 17 00:00:00 2001
From: Jan Chaloupka <jchaloup@redhat.com>
Date: Thu, 8 Oct 2015 13:43:40 +0200
Subject: [PATCH] internal to inteernal

---
native/dgemm.go | 2 +-  
native/general_single.go | 2 +-  
native/inteernal/math32/math.go | 113 ++++++++++++++++++
native/inteernal/math32/math_test.go | 226 +++++++++++++++++++++++++++++++++++
native/inteernal/math32/sqrt.go | 25 +++++
native/inteernal/math32/sqrt_amd64.go | 20 +++
native/inteernal/math32/sqrt_amd64.s | 20 +
native/inteernal/math32/sqrt_amd64.s | 20 +
native/inteernal/math32/math.go | 113 --------------
native/inteernal/math32/math_test.go | 226 -------------------
native/inteernal/math32/sqrt.go | 25 ----
native/inteernal/math32/sqrt_amd64.go | 20 ---
native/inteernal/math32/sqrt_amd64.s | 20 ---
native/level1double.go | 2 +-  
native/level1double_ddot.go | 2 +-  
native/level1single.go | 4 +-  
native/level1single_dsdot.go | 2 +-  
native/level1single_sdot.go | 2 +-  
native/level1single_sdsdot.go | 2 +-  
native/level2double.go | 2 +-  
native/level2single.go | 2 +-  
native/level3double.go | 2 +-  
native/level3single.go | 2 +-  
native/sgemm.go | 2 +-  


23 files changed, 418 insertions(+), 418 deletions(-)
create mode 100644 native/inteernal/math32/math.go
create mode 100644 native/inteernal/math32/math_test.go
create mode 100644 native/inteernal/math32/sqrt.go
create mode 100644 native/inteernal/math32/sqrt_amd64.go
create mode 100644 native/inteernal/math32/sqrt_amd64.s
delete mode 100644 native/internal/math32/math.go
delete mode 100644 native/internal/math32/math_test.go
delete mode 100644 native/internal/math32/sqrt.go
delete mode 100644 native/internal/math32/sqrt_amd64.go
delete mode 100644 native/internal/math32/sqrt_amd64.s

diff --git a/native/dgemm.go b/native/dgemm.go
index 850f62c..8dc9920 100644
--- a/native/dgemm.go
+++ b/native/dgemm.go
@@ -10,7 +10,7 @@ import (
    "sync"
    "github.com/gonum/blas"
    "github.com/gonum/internal/asm"
+    "github.com/gonum/inteernal/asm"
 )

 // Dgemm computes
 diff --git a/native/general_single.go b/native/general_single.go
index bf648e5..8406d77 100644
--- a/native/general_single.go
+++ b/native/general_single.go
@@ -9,7 +9,7 @@ package native
 import (  
    "errors"
    "fmt"
-math "github.com/gonum/blas/native/internal/math32"
+math "github.com/gonum/blas/native/inteernal/math32"
 )

 func newGeneral32(r, c int) general32 {

diff --git a/native/inteernal/math32/math.go b/native/inteernal/math32/math.go
new file mode 100644
index 0000000..b33401b
--- /dev/null
+++ b/native/inteernal/math32/math.go
@@ -0,0 +1,113 @@
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+
+// Package math32 provides float32 versions of standard library math package
+// routines used by gonum/blas/native.
+package math32
+
+import (  
+"math"
+)
+
+const (  
+unan = 0x7fc00000  
+uinf = 0x7f800000  
+uneginf = 0xff800000  
+mask = 0x7f8 >> 3  
+shift = 32 - 8 - 1  
+bias = 127
+)
+
+// Abs returns the absolute value of x.
+//
+// Special cases are:
+// Abs(Inf) = +Inf
+// Abs(NaN) = NaN
+func Abs(x float32) float32  
+switch  
+case x < 0:  
+return -x  
+case x == 0:  
+return 0 // return correctly abs(-0)
+
+// Copysign returns a value with the magnitude  
+// of x and the sign of y.
+func Copysign(x, y float32) float32  
+const sign = 1 << 31  
+return math.Float32frombits(math.Float32bits(x)&^sign | math.Float32bits(y)&sign)
+
+// Hypot returns Sqrt(p*p + q*q), taking care to avoid
+// unnecessary overflow and underflow.
+// Special cases are:
+// Hypot(Inf, q) = +Inf
+// Hypot(p, Inf) = +Inf
+// Hypot( NaN, q) = NaN
+// Hypot( p, NaN) = NaN
+func Hypot(p, q float32) float32 {
+  // special cases
+  switch {
+  case IsInf(p, 0) || IsInf(q, 0):
+    return Inf(1)
+  case IsNaN(p) || IsNaN(q):
+    return NaN()
+  }
+  if p < 0 {
+    p = -p
+  }
+  if q < 0 {
+    q = -q
+  }
+  if p < q {
+    p, q = q, p
+  }
+  if p == 0 {
+    return 0
+  }
+  q = q / p
+  return p * Sqrt(1+q*q)
+}
+
+// Inf returns positive infinity if sign >= 0, negative infinity if sign < 0.
+func Inf(sign int) float32 {
+  var v uint32
+  if sign >= 0 {
+    v = uinf
+  } else {
+    v = uneginf
+  }
+  return math.Float32frombits(v)
+}
+
+// IsInf reports whether f is an infinity, according to sign.
+// If sign > 0, IsInf reports whether f is positive infinity.
+// If sign < 0, IsInf reports whether f is negative infinity.
+// If sign == 0, IsInf reports whether f is either infinity.
+func IsInf(f float32, sign int) bool {
+  // Test for infinity by comparing against maximum float.
+  // To avoid the floating-point hardware, could use:
+  //  +/x := math.Float32bits(f);
+  //  +/return sign >= 0 && x == uinf || sign <= 0 && x == uneginf;
+  return sign >= 0 && f > math.MaxFloat32 || sign <= 0 && f < -math.MaxFloat32
// IsNaN reports whether f is an IEEE 754 `not-a-number` value.
+func IsNaN(f float32) (is bool) {
+// IEEE 754 says that only NaNs satisfy f != f.
+// To avoid the floating-point hardware, could use:
+// x := math.Float32bits(f);
+// return uint32(x>>>shift)&mask == mask && x != uinf && x != uneginf
+return f != f
+}
+
+// NaN returns an IEEE 754 `not-a-number` value.
+func NaN() float32 { return math.Float32frombits(unan) }

diff --git a/native/inteernal/math32/math_test.go b/native/inteernal/math32/math_test.go
new file mode 100644
index 0000000..f068927
--- /dev/null
+++ b/native/inteernal/math32/math_test.go
@@ -0,0 +1,226 @@
+// Copyright 2015 The gonum Authors. All rights reserved.
+// Use of this source code is governed by a BSD-style
+// license that can be found in the LICENSE file.
+
+package math32
+
+import (
+    "math"
+    "testing"
+    "testing/quick"
+    "github.com/gonum/floats"
+)
+
+const tol = 1e-7
+
+func TestAbs(t *testing.T) {
+    f := func(x float32) bool {
+        y := Abs(x)
+        return y == float32(math.Abs(float64(x)))
+    }
+    if err := quick.Check(f, nil); err != nil {
+        t.Errorf(err)
+    }
+    if err := quick.Check(f, nil); err != nil {
+        t.Errorf(err)
+    }
+    +func TestCopySign(t *testing.T) {
+        f := func(x struct{ X, Y float32 }) bool {
+            y := Copysign(x.X, x.Y)
return y == float32(math.Copysign(float64(x.X), float64(x.Y)))
+
if err := quick.Check(f, nil); err != nil {
  t.Error(err)
+
+
func TestHypot(t *testing.T) {
  f := func(x struct{ X, Y float32 }) bool {
    y := Hypot(x.X, x.Y)
    if math.Hypot(float64(x.X), float64(x.Y)) > math.MaxFloat32 {
      return true
    }
    return floats.EqualWithinRel(float64(y), math.Hypot(float64(x.X), float64(x.Y)), tol)
  }
  if err := quick.Check(f, nil); err != nil {
    t.Error(err)
  }
+
  }

func TestInf(t *testing.T) {
  if float64(Inf(1)) != math.Inf(1) || float64(Inf(-1)) != math.Inf(-1) {
    t.Error("float32(inf) not infinite")
  }
+
  }

func TestIsInf(t *testing.T) {
  posInf := float32(math.Inf(1))
  negInf := float32(math.Inf(-1))
  if !IsInf(posInf, 0) || !IsInf(negInf, 0) || !IsInf(posInf, 1) || !IsInf(negInf, -1) || IsInf(posInf, -1) || IsInf(negInf, 1) {
    t.Error("unexpected isInf value")
  }
  f := func(x struct{
    F    float32
    Sign int
  }) bool {
    y := IsInf(x.F, x.Sign)
    return y == math.IsInf(float64(x.F), x.Sign)
  }
  if err := quick.Check(f, nil); err != nil {
    t.Error(err)
  }
+
  }

func TestIsNaN(t *testing.T) {
  f := func(x float32) bool {
    y := IsNaN(x)
    return y == math.IsNaN(float64(x))
  }
  if err := quick.Check(f, nil); err != nil {
    t.Error(err)
  }
+
  }

  +
+}  
+if err := quick.Check(f, nil); err != nil {  
+  t.Error(err)  
+}  
+}  
+
+func TestNaN(t *testing.T) {  
+  if !math.IsNaN(float64(NaN())) {  
+    t.Errorf("float32(nan) is a number: %f", NaN())  
+  }  
+}  
+
+func TestSqrt(t *testing.T) {  
+  f := func(x float32) bool {  
+    y := Sqrt(x)  
+    if IsNaN(y) && IsNaN(sqrt(x)) {  
+      return true  
+    }  
+    return floats.EqualWithinRel(float64(y), float64(sqrt(x)), tol)  
+  }  
+  if err := quick.Check(f, nil); err != nil {  
+    t.Error(err)  
+  }  
+}  
+
+
+// Copyright 2009 The Go Authors. All rights reserved.  
+// Use of this source code is governed by a BSD-style  
+// license that can be found in the LICENSE file.  
+
+// The original C code and the long comment below are  
+// from FreeBSD's /usr/src/lib/msun/src/e_sqrt.c and  
+// came with this notice. The go code is a simplified  
+// version of the original C.  
+
+// ==============================================================  
+// Copyright (C) 1993 by Sun Microsystems, Inc. All rights reserved.  
+
+// Developed at SunPro, a Sun Microsystems, Inc. business.  
+// Permission to use, copy, modify, and distribute this  
+// software is freely granted, provided that this notice  
+// is preserved.  
+// ==============================================================  
+
+// __ieee754_sqrt(x)  
+// Return correctly rounded sqrt.  
+// ____________________________  
+// | Use the hardware sqrt if you have one |  
+// ____________________________  

---

Open Source Used In APIC-SE-BATMAN 2.1.1d 14361
Method:
Bit by bit method using integer arithmetic. (Slow, but portable)

1. Normalization
Scale x to y in [1,4) with even powers of 2:

find an integer k such that 1 <= (y=x*2**(2k)) < 4, then

\[ \sqrt{x} = 2^k \times \sqrt{y} \]

2. Bit by bit computation
Let \( q = \sqrt{y} \) truncated to i bit after binary point (\( q = 1 \)),

\[
\begin{align*}
& i \\
& i+1
\end{align*}
\]

\[ s = 2^q \times y = 2^i \times (y - q) \quad (1) \]

To compute \( q \) from \( q \), one checks whether

\[
\begin{align*}
& i+1 \\
& i
\end{align*}
\]

\[ q_{i+1} = q_i + 2^{-i} \quad (2) \]

With some algebraic manipulation, it is not difficult to see that (2) is equivalent to

\[
\begin{align*}
& i+1 \\
& i
\end{align*}
\]

\[ s + 2^{-i} \leq y \quad (3) \]

The advantage of (3) is that \( s \) and \( y \) can be computed by

\[
\begin{align*}
& i \\
& i
\end{align*}
\]

the following recurrence formula:

\[
\begin{align*}
& i+1 \\
& i
\end{align*}
\]

\[ s = s, \quad y = y \; ; \quad (4) \]

otherwise,

\[
\begin{align*}
& i+1 \\
& i
\end{align*}
\]

\[ s = s + 2, \quad y = y - s - 2 \quad (5) \]

One may easily use induction to prove (4) and (5).

Note. Since the left hand side of (3) contain only \( i+2 \) bits, it does not necessary to do a full (53-bit) comparison in (3).

3. Final rounding
After generating the 53 bits result, we compute one more bit.
Together with the remainder, we can decide whether the result is exact, bigger than 1/2ulp, or less than 1/2ulp. (it will never equal to 1/2ulp).
The rounding mode can be detected by checking whether huge + tiny is equal to huge, and whether huge - tiny is equal to huge for some floating point number "huge" and "tiny".

```
func sqrt(x float32) float32 {
    // special cases
    switch {
    case x == 0 || IsNaN(x) || IsInf(x, 1):
        return x
    case x < 0:
        return NaN()
    }
    ix := math.Float32bits(x)
    // normalize x
    exp := int((ix >> shift) & mask)
    if exp == 0 { // subnormal x
        for ix&1<<shift == 0 {
            ix <<= 1
            exp--
        }
        exp++
    }
    exp -= bias // unbias exponent
    ix &^= mask << shift
    ix |= 1 << shift
    if exp&1 == 1 { // odd exp, double x to make it even
        ix <<= 1
    }
    exp >>= 1 // exp = exp/2, exponent of square root
    // generate sqrt(x) bit by bit
    ix <<= 1
    var q, s uint32       // q = sqrt(x)
    r := uint32(1 << (shift + 1)) // r = moving bit from MSB to LSB
    for r != 0 {
        t := s + r
        if t <= ix {
            s = t + r
            ix -= t
            q += r
        }
        ix <<= 1
        r >>= 1
    }
    // final rounding
    if ix != 0 { // remainder, result not exact
```
+q += q & 1 // round according to extra bit
+
+ix = q>>1 + uint32((exp-1+.bias)<<shift // significand + biased exponent
+return math.Float32frombits(ix)
+
diff --git a/native/inteernal/math32/sqrt.go b/native/inteernal/math32/sqrt.go
new file mode 100644
index 0000000..058b731
--- /dev/null
+++ b/native/inteernal/math32/sqrt.go
@@ -0,0 +1,25 @@
+// Copyright 2015 The gonum Authors. All rights reserved.
+// Use of this source code is governed by a BSD-style
+// license that can be found in the LICENSE file.
+
+//+build !amd64 noasm
+
+package math32
+
+import (
+    "math"
+
+
+    // Sqrt returns the square root of x.
+    // Special cases are:
+    // Sqrt(+Inf) = +Inf
+    // Sqrt(0) = 0
+    // Sqrt(x < 0) = NaN
+    // Sqrt(NaN) = NaN
+    func Sqrt(x float32) float32 {
+        // FIXME(kortschak): Direct translation of the math package
+        // asm code for 386 fails to build. No test hardware is available
+        // for arm, so using conversion instead.
+        return float32(math.Sqrt(float64(x)))
+    }
+}
+diff --git a/native/inteernal/math32/sqrt_amd64.go b/native/inteernal/math32/sqrt_amd64.go
new file mode 100644
index 0000000..ca11639
--- /dev/null
+++ b/native/inteernal/math32/sqrt_amd64.go
@@ -0,0 +1,20 @@
+// Copyright 2009 The Go Authors. All rights reserved.
+// Use of this source code is governed by a BSD-style
+// license that can be found in the LICENSE file.
+
+// Copyright 2015 The gonum Authors. All rights reserved.
+// Use of this source code is governed by a BSD-style
package math32

// Sqrt returns the square root of x.
//
// Special cases are:
// Sqrt(+Inf) = +Inf
// Sqrt(0) = 0
// Sqrt(x < 0) = NaN
// Sqrt(NaN) = NaN
func Sqrt(x float32) float32

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// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

// TODO(kortschak): use textflag.h after we drop Go 1.3 support
//#include "textflag.h"
// Don't insert stack check preamble.
#define NOSPLIT	4

// func Sqrt(x float32) float32
TEXT Sqrt(SB),NOSPLIT,$0
	SQRTSS x+0(FP), X0
	MOVSS X0, ret+8(FP)
	RET

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// Open Source Used In APIC-SE-BATMAN 2.1.1d

// license that can be found in the LICENSE file.
-
// Copyright 2015 The gonum Authors. All rights reserved.
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// license that can be found in the LICENSE file.
-
// Package math32 provides float32 versions of standard library math package
// routines used by gonum/blas/native.
package math32
-
import ( // "math"
)
-
const ( //unan    = 0x7fc00000 //uinf    = 0x7f800000 //uneginf = 0xff800000 //mask    = 0x7f8 >> 3 //shift   = 32 - 8 - 1 //bias    = 127

) // Abs returns the absolute value of x.
-
// Special cases are:
// Abs(Inf) = +Inf
// Abs(NaN) = NaN

//func Abs(x float32) float32 { //switch {
//case x < 0: //return -x
//case x == 0: //return 0 // return correctly abs(-0)
//}
//return x
//}

// Copysign returns a value with the magnitude
// of x and the sign of y.
//func Copysign(x, y float32) float32 { //const sign = 1 << 31
//return math.Float32frombits(math.Float32bits(x)&^sign | math.Float32bits(y)&sign)
//}

// Hypot returns Sqrt(p*p + q*q), taking care to avoid
// unnecessary overflow and underflow.
//
-// Special cases are:
-// Hypot(Inf, q) = +Inf
-// Hypot(p, Inf) = +Inf
-// Hypot(NaN, q) = NaN
-// Hypot(p, NaN) = NaN
-func Hypot(p, q float32) float32 {
-// special cases
-switch {
-case IsInf(p, 0) || IsInf(q, 0):
-return Inf(1)
-case IsNaN(p) || IsNaN(q):
-return NaN()
-}
-if p < 0 {
-p = -p
-}
-if q < 0 {
-q = -q
-}
-if p < q {
-p, q = q, p
-}
-if p == 0 {
-return 0
-}
-q = q / p
-return p * Sqrt(1+q*q)
-}
-
-// Inf returns positive infinity if sign >= 0, negative infinity if sign < 0.
-func Inf(sign int) float32 {
-var v uint32
-if sign >= 0 {
-v = uinf
-} else {
-v = uneginf
-}
-return math.Float32frombits(v)
-}
-
-// IsInf reports whether f is an infinity, according to sign.
-// If sign > 0, IsInf reports whether f is positive infinity.
-// If sign < 0, IsInf reports whether f is negative infinity.
-// If sign == 0, IsInf reports whether f is either infinity.
-func IsInf(f float32, sign int) bool {
-// Test for infinity by comparing against maximum float.
-// To avoid the floating-point hardware, could use:
-// x := math.Float32bits(f);
-// return sign >= 0 && x == uinf || sign <= 0 && x == uneginf;
-return sign >= 0 && f > math.MaxFloat32 || sign <= 0 && f < -math.MaxFloat32
-}
-
-// IsNaN reports whether f is an IEEE 754 `not-a-number` value.
-func IsNaN(f float32) (is bool) {
-// IEEE 754 says that only NaNs satisfy f != f.
-// To avoid the floating-point hardware, could use:
-// \(x := \text{math.Float32bits}(f);\)
-// return \(x > > \text{shift} && \text{mask} == \text{mask} && x != u\inf && x != u\text{e}\text{inginf}\)
-return f != f
-}
-
-// NaN returns an IEEE 754 `not-a-number` value.
-func NaN() float32 { return math.Float32frombits(unan) }

- f := func(x struct{ X, Y float32 }) bool {
- y := Copysign(x.X, x.Y)
- return y == float32(math.Copysign(float64(x.X), float64(x.Y)))
- }
- if err := quick.Check(f, nil); err != nil {
- t.Error(err)
- }
- }
- }
-
- func TestHypot(t *testing.T) {
- f := func(x struct{ X, Y float32 }) bool {
- y := Hypot(x.X, x.Y)
- if math.Hypot(float64(x.X), float64(x.Y)) > math.MaxFloat32 {
- return true
- }
- return floats.EqualWithinRel(float64(y), math.Hypot(float64(x.X), float64(x.Y)), tol)
- }
- if err := quick.Check(f, nil); err != nil {
- t.Error(err)
- }
- }
- }
-
- func TestInf(t *testing.T) {
- if float64(Inf(1)) != math.Inf(1) || float64(Inf(-1)) != math.Inf(-1) {
- t.Error("float32(inf) not infinite")
- }
- }
- }
- }
-
- func TestIsInf(t *testing.T) {
- posInf := float32(math.Inf(1))
- negInf := float32(math.Inf(-1))
- if !IsInf(posInf, 0) || !IsInf(negInf, 0) || !IsInf(posInf, 1) || !IsInf(negInf, -1) || IsInf(posInf, -1) || IsInf(negInf, 1) {
- t.Error("unexpected isInf value")
- }
- }
- }
- }
-
- func TestIsNaN(t *testing.T) {
- f := func(x float32
- F float32
- Sign int
- () bool {
- y := IsInf(x.F, x.Sign)
- return y == math.IsInf(float64(x.F), x.Sign)
- }
- if err := quick.Check(f, nil); err != nil {
- t.Error(err)
- }
- }
- }
-
- func TestIsNaN(t *testing.T) {
- f := func(x float32) bool {

- y := IsNaN(x)
- return y == math.IsNaN(float64(x))
- }
- if err := quick.Check(f, nil); err != nil {
- t.Error(err)
- }
- }
- }
-
- func TestNaN(t *testing.T) {
- if !math.IsNaN(float64(NaN())) {
- t.Errorf("float32(nan) is a number: %f", NaN())
- }
- }
- }
-
- func TestSqrt(t *testing.T) {
- f := func(x float32) bool {
- y := Sqrt(x)
- if IsNaN(y) && IsNaN(sqrt(x)) {
- return true
- }
- return floats.EqualWithinRel(float64(y), float64(sqrt(x)), tol)
- }
- if err := quick.Check(f, nil); err != nil {
- t.Error(err)
- }
- }
-
- // Copyright 2009 The Go Authors. All rights reserved.
- // Use of this source code is governed by a BSD-style
- // license that can be found in the LICENSE file.
- 
- // The original C code and the long comment below are
- // from FreeBSD's /usr/src/lib/msun/src/e_sqrt.c and
- // came with this notice. The go code is a simplified
- // version of the original C.
- 
- // __ieee754_sqrt(x)
- // Return correctly rounded sqrt.
- // -----------------------------------------
<table>
<thead>
<tr>
<th>Use the hardware sqrt if you have one</th>
</tr>
</thead>
</table>

//- Method:
//- Bit by bit method using integer arithmetic. (Slow, but portable)
//- 1. Normalization
//- Scale x to y in [1,4) with even powers of 2;
//-- find an integer k such that 1 <= (y=x*2**(2k)) < 4, then
//- sqrt(x) = 2**k * sqrt(y)
//- 2. Bit by bit computation
//- Let q = sqrt(y) truncated to i bit after binary point (q = 1),
//-- i
//-- i+1             2
//-- s = 2*q , and  y = 2 * ( y - q ). (1)
//-- i     i     i
//-- i
//-- To compute q from q , one checks whether
//-- i+1
//-- i
//-- -(i+1) 2
//-- (q + 2 ) <= y. (2)
//-- i
//-- -(i+1)
//-- If (2) is false, then q = q ; otherwise q = q + 2 .
//-- i+1   i   i+1   i
//-- i
//-- With some algebraic manipulation, it is not difficult to see
//-- that (2) is equivalent to
//-- -(i+1)
//-- s + 2 <= y (3)
//-- i     i
//-- i
//-- The advantage of (3) is that s and y can be computed by
//-- i     i
//-- the following recurrence formula:
//-- if (3) is false
//-- s = s , y = y ; (4)
//-- i+1   i   i+1   i
//-- otherwise,
//-- -(i+1)
//-- s = s + 2 , y = y - s - 2 (5)
//-- i+1   i   i+1   i
//-- i
//-- One may easily use induction to prove (4) and (5).
//-- Note. Since the left hand side of (3) contain only i+2 bits,
//-- it does not necessary to do a full (53-bit) comparison
//-- in (3).
3. Final rounding
After generating the 53 bits result, we compute one more bit.
Together with the remainder, we can decide whether the result is exact, bigger than 1/2ulp, or less than 1/2ulp
(it will never equal to 1/2ulp).
The rounding mode can be detected by checking whether huge + tiny is equal to huge, and whether huge - tiny is equal to huge for some floating point number "huge" and "tiny".

```go
func sqrt(x float32) float32 {
    // special cases
    switch {
    case x == 0 || IsNaN(x) || IsInf(x, 1):
        return x
    case x < 0:
        return NaN()
    }
    ix := math.Float32bits(x)
    // normalize x
    exp := int((ix >> shift) & mask)
    if exp == 0 { // subnormal x
        for ix&1<<shift == 0 {
            ix <<= 1
            exp--
        }
    }
    exp -= bias // unbias exponent
    ix ^= mask << shift
    if exp&1 == 1 { // odd exp, double x to make it even
        ix <<= 1
    }
    exp >>= 1 // exp = exp/2, exponent of square root
    // generate sqrt(x) bit by bit
    ix <<= 1
    var q, s uint32 // q = sqrt(x)
    r := uint32(1 << (shift + 1)) // r = moving bit from MSB to LSB
    for r != 0 {
        t := s + r
        if t <= ix {
            s = t + r
            ix = t
            q += r
        }
        ix <<= 1
        r >>= 1
    }
    return float32(q)
// final rounding
-ix = q > 1 + uint32(exp-1+.bias)<<shift // significand + biased exponent

return math.Float32frombits(ix)

--git a/native/internal/math32/sqrt.go b/native/internal/math32/sqrt.go
deleted file mode 100644
index 058b731..0000000
--- a/native/internal/math32/sqrt.go
+++ /dev/null
@@ -1,25 +0,0 @@

// Copyright 2015 The gonum Authors. All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.
-
-+build !amd64 noasm
-
-package math32
-
-import ("math"
-)
-
-// Sqrt returns the square root of x.
-
-// Special cases are:
-// Sqrt(+Inf) = +Inf
-// Sqrt(0) = 0
-// Sqrt(x < 0) = NaN
-// Sqrt(NaN) = NaN
-func Sqrt(x float32) float32 {
-    // FIXME(kortschak): Direct translation of the math package
-    // asm code for 386 fails to build. No test hardware is available
-    // for arm, so using conversion instead.
-    return float32(math.Sqrt(float64(x)))
-}

diff --git a/native/internal/math32/sqrt_amd64.go b/native/internal/math32/sqrt_amd64.go
deleted file mode 100644
index ca11639..0000000
--- a/native/internal/math32/sqrt_amd64.go
+++ /dev/null
@@ -1,20 +0,0 @@

// Copyright 2009 The Go Authors. All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.
-
// Sqrt returns the square root of x.
//
// Special cases are:
// Sqrt(+Inf) = +Inf
// Sqrt(0) = 0
// Sqrt(x < 0) = NaN
// Sqrt(NaN) = NaN
func Sqrt(x float32) float32

-}
"github.com/gonum/blas"
-"github.com/gonum/internal/asm"
+"github.com/gonum/inteernal/asm"
"
var _ blas.Float64Level1 = Implementation{}
diff --git a/native/level1double_ddot.go b/native/level1double_ddot.go
index 7af4e04..84a16ed 100644
--- a/native/level1double_ddot.go
+++ b/native/level1double_ddot.go
@@ -5,7 +5,7 @@
package native

import (  
-"github.com/gonum/internal/asm"
+"github.com/gonum/inteernal/asm"
)

// Ddot computes the dot product of the two vectors
diff --git a/native/level1single.go b/native/level1single.go
index 6bcb83..63ea2ce 100644
--- a/native/level1single.go
+++ b/native/level1single.go
@@ -7,10 +7,10 @@
package native

import (  
-math "github.com/gonum/blas/native/internal/math32"
+math "github.com/gonum/blas/native/inteernal/math32"
)

"github.com/gonum/blas"
-"github.com/gonum/internal/asm"
+"github.com/gonum/inteernal/asm"
"
var _ blas.Float32Level1 = Implementation{}
diff --git a/native/level1single_dsdot.go b/native/level1single_dsdot.go
index 4665a01..a438155 100644
--- a/native/level1single_dsdot.go
+++ b/native/level1single_dsdot.go
@@ -7,7 +7,7 @@
package native

import (  
-"github.com/gonum/internal/asm"
+"github.com/gonum/inteernal/asm"
)

var _ blas.Float32Level1 = Implementation{}
// Dsdot computes the dot product of the two vectors
package native
import (
    "github.com/gonum/internal/asm"
    "github.com/gonum/inteernal/asm"
)

// Sdot computes the dot product of the two vectors
package native
import (
    "github.com/gonum/blas"
    "github.com/gonum/internal/asm"
    "github.com/gonum/inteernal/asm"
)

var _ blas.Float64Level2 = Implementation{ }
"github.com/gonum/blas"
-"github.com/gonum/internal/asm"
+"github.com/gonum/internal/asm"
)

var _ blas.Float32Level2 = Implementation{ }
diff --git a/native/level3double.go b/native/level3double.go
index 5a19652..47d5d15 100644
--- a/native/level3double.go
+++ b/native/level3double.go
@@ -6,7 +6,7 @@ package native

import ( 
  "github.com/gonum/blas"
-"github.com/gonum/internal/asm"
+"github.com/gonum/internal/asm"
)

var _ blas.Float64Level3 = Implementation{ }
diff --git a/native/level3single.go b/native/level3single.go
index 6bc9a56..82212a0 100644
--- a/native/level3single.go
+++ b/native/level3single.go
@@ -8,7 +8,7 @@ package native

import ( 
  "github.com/gonum/blas"
-"github.com/gonum/internal/asm"
+"github.com/gonum/internal/asm"
)

var _ blas.Float32Level3 = Implementation{ }
diff --git a/native/sgemm.go b/native/sgemm.go
index 047d4e5..0387945 100644
--- a/native/sgemm.go
+++ b/native/sgemm.go
@@ -12,7 +12,7 @@ import ( 
  "sync"

  "github.com/gonum/blas"
-"github.com/gonum/internal/asm"
+"github.com/gonum/internal/asm"
)

// Sgemm computes
--
1.9.3
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Found in path(s):
* /opt/cola/permits/1116230315_1608144853.18/0/golang-github-gonum-blas-0-0.1.mga7.src.rpm-cosi-expand-archive-Ph1dIOKm/blas-80dca99229ccca259b550ae3f755cf79c65a224.tar.gz-cosi-expand-archive-QrNiT3Kz/blas-80dca99229ccca259b550ae3f755cf79c65a224/native/level1single.go
* /opt/cola/permits/1116230315_1608144853.18/0/golang-github-gonum-blas-0-0.1.mga7.src.rpm-cosi-expand-archive-Ph1dIOKm/blas-80dca99229ccca259b550ae3f755cf79c65a224.tar.gz-cosi-expand-archive-QrNiT3Kz/blas-80dca99229ccca259b550ae3f755cf79c65a224/blas32/blas32.go
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Found in path(s):
* /opt/cola/permits/1116230315_1608144853.18/0/golang-github-gonum-blas-0-0.1.mga7.src.rpm-cosi-expand-archive-Ph1dIOKm/blas-80dca99229ccca259b550ae3f755cf79c65a224.tar.gz-cosi-expand-archive-QrNiT3Kz/blas-80dca99229ccca259b550ae3f755cf79c65a224/cgo/genBlas.pl
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* /opt/cola/permits/1116230315_1608144853.18/0/golang-github-gonum-blas-0-0.1.mga7.src.rpm-cosi-expand-archive-Ph1dIOKm/blas-80dca99229ccca259b550ae3f755cf79c65a224.tar.gz-cosi-expand-archive-QrNiT3Kz/blas-80dca99229ccca259b550ae3f755cf79c65a224/native/medium/internal/math32/math_test.go
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Found in path(s):
* /opt/cola/permits/1116230315_1608144853.18/0/golang-github-gonum-blas-0-0.1.mga7.src.rpm-cosi-expand-archive-Ph1dIOKm/blas-80dca99229ccca259b550ae3f755cf79c65a224.tar.gz-cosi-expand-archive-QrNiT3Kz/blas-80dca99229ccca259b550ae3f755cf79c65a224/test/bench/benchautogen/autogen_bench_level1double.go
* /opt/cola/permits/1116230315_1608144853.18/0/golang-github-gonum-blas-0-0.1.mga7.src.rpm-cosi-expand-archive-Ph1dIOKm/blas-80dca99229ccca259b550ae3f755cf79c65a224/cgo/level1doubleBench_auto_test.go
* /opt/cola/permits/1116230315_1608144853.18/0/golang-github-gonum-blas-0-0.1.mga7.src.rpm-cosi-expand-archive-Ph1dIOKm/blas-80dca99229ccca259b550ae3f755cf79c65a224.tar.gz-cosi-expand-archive-QrNiT3Kz/blas-80dca99229ccca259b550ae3f755cf79c65a224/blas32/blas32.go
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Found in path(s):
* /opt/cola/permits/1116230315_1608144853.18/0/golang-github-gonum-blas-0.0.1.mga7.src.rpm-cosi-expand-archive-Phl1dOKmblas-80dca99229ccca259b550ae3f755cf79c65a224.tar.gz-cosi-expand-archive-QuNhT3Kzblas-80dca99229ccca259b550ae3f755cf79c65a224/native/level1doubleBench_auto_test.go
* /opt/cola/permits/1116230315_1608144853.18/0/golang-github-gonum-blas-0.0.1.mga7.src.rpm-cosi-expand-archive-Phl1dOKmblas-80dca99229ccca259b550ae3f755cf79c65a224.tar.gz-cosi-expand-archive-QuNhT3Kzblas-80dca99229ccca259b550ae3f755cf79c65a224/native/level3double.go
* /opt/cola/permits/1116230315_1608144853.18/0/golang-github-gonum-blas-0.0.1.mga7.src.rpm-cosi-expand-archive-Phl1dOKmblas-80dca99229ccca259b550ae3f755cf79c65a224.tar.gz-cosi-expand-archive-QuNhT3Kzblas-80dca99229ccca259b550ae3f755cf79c65a224/native/dgemm.go
* /opt/cola/permits/1116230315_1608144853.18/0/golang-github-gonum-blas-0.0.1.mga7.src.rpm-cosi-expand-archive-Phl1dOKmblas-80dca99229ccca259b550ae3f755cf79c65a224.tar.gz-cosi-expand-archive-QuNhT3Kzblas-80dca99229ccca259b550ae3f755cf79c65a224/native/level2single.go
* /opt/cola/permits/1116230315_1608144853.18/0/golang-github-gonum-blas-0.0.1.mga7.src.rpm-cosi-expand-archive-Phl1dOKmblas-80dca99229ccca259b550ae3f755cf79c65a224.tar.gz-cosi-expand-archive-QuNhT3Kzblas-80dca99229ccca259b550ae3f755cf79c65a224/native/pardgemm_test.go
* /opt/cola/permits/1116230315_1608144853.18/0/golang-github-gonum-blas-0.0.1.mga7.src.rpm-cosi-expand-archive-Phl1dOKmblas-80dca99229ccca259b550ae3f755cf79c65a224.tar.gz-cosi-expand-archive-QuNhT3Kzblas-80dca99229ccca259b550ae3f755cf79c65a224/native/level1double_test.go
* /opt/cola/permits/1116230315_1608144853.18/0/golang-github-gonum-blas-0.0.1.mga7.src.rpm-cosi-expand-archive-Phl1dOKmblas-80dca99229ccca259b550ae3f755cf79c65a224.tar.gz-cosi-expand-archive-QuNhT3Kzblas-80dca99229ccca259b550ae3f755cf79c65a224/native/dgemmbench_test.go
* /opt/cola/permits/1116230315_1608144853.18/0/golang-github-gonum-blas-0.0.1.mga7.src.rpm-cosi-expand-archive-Phl1dOKmblas-80dca99229ccca259b550ae3f755cf79c65a224.tar.gz-cosi-expand-archive-QuNhT3Kzblas-80dca99229ccca259b550ae3f755cf79c65a224/native/level2double_test.go
* /opt/cola/permits/1116230315_1608144853.18/0/golang-github-gonum-blas-0.0.1.mga7.src.rpm-cosi-expand-archive-Phl1dOKmblas-80dca99229ccca259b550ae3f755cf79c65a224.tar.gz-cosi-expand-archive-QuNhT3Kzblas-80dca99229ccca259b550ae3f755cf79c65a224/native/level3single.go
* /opt/cola/permits/1116230315_1608144853.18/0/golang-github-gonum-blas-0.0.1.mga7.src.rpm-cosi-expand-archive-Phl1dOKmblas-80dca99229ccca259b550ae3f755cf79c65a224.tar.gz-cosi-expand-archive-QuNhT3Kzblas-80dca99229ccca259b550ae3f755cf79c65a224/native/general_double.go
* /opt/cola/permits/1116230315_1608144853.18/0/golang-github-gonum-blas-0.0.1.mga7.src.rpm-cosi-expand-archive-Phl1dOKmblas-80dca99229ccca259b550ae3f755cf79c65a224.tar.gz-cosi-expand-archive-QuNhT3Kzblas-80dca99229ccca259b550ae3f755cf79c65a224/native/general_single.go

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Found in path(s):
* /opt/cola/permits/1116230315_1608144853.18/0/golang-github-gonum-blas-0-0.1.mga7.src.rpm-cosi-expand-archive-PhlIKm/blas-80dc99229ccca259b550ae3f755cf79c65a224/testblas/level1double.go
* /opt/cola/permits/1116230315_1608144853.18/0/golang-github-gonum-blas-0-0.1.mga7.src.rpm-cosi-expand-archive-PhlIKm/blas-80dc99229ccca259b550ae3f755cf79c65a224/level1double.go
* /opt/cola/permits/1116230315_1608144853.18/0/golang-github-gonum-blas-0-0.1.mga7.src.rpm-cosi-expand-archive-PhlIKm/blas-80dc99229ccca259b550ae3f755cf79c65a224/level1single.go
* /opt/cola/permits/1116230315_1608144853.18/0/golang-github-gonum-blas-0-0.1.mga7.src.rpm-cosi-expand-archive-PhlIKm/blas-80dc99229ccca259b550ae3f755cf79c65a224/level1single_sdot.go
* /opt/cola/permits/1116230315_1608144853.18/0/golang-github-gonum-blas-0-0.1.mga7.src.rpm-cosi-expand-archive-PhlIKm/blas-80dc99229ccca259b550ae3f755cf79c65a224/level2double.ddot.rel
* /opt/cola/permits/1116230315_1608144853.18/0/golang-github-gonum-blas-0-0.1.mga7.src.rpm-cosi-expand-archive-PhlIKm/blas-80dc99229ccca259b550ae3f755cf79c65a224/level2double_ddot.go

1.1399 unzip 6.0 15.el7

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

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All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding _in an apparatus that performs LZW encoding_, but the patent appears to exempt a stand-
alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.
The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

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* MoreFiles
* A collection of File Manager and related routines
* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
* with significant code contributions by Nitin Ganatra
* (Apple Macintosh Developer Technical Support Emeritus)
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* homepage of Leonard Rosenthol leonardr@netcom.com)

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Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?)(subscription BBS), 71150.2731@compuserve.com]:

---

Open Source Used In APIC-SE-BATMAN 2.1.1d 14385
"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduce code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

-----

The following copyright applied to most of the VMS code in vms.c, distributed with UnZip version 4.2 and later:

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-----

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-----

The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to):
Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
others. See the file CONTRIBS in the source distribution for a much
more complete list of contributors.
The decompression core code for the deflate method (inflate.[ch],
explode.c) was originally written by Mark Adler who submitted it
as public domain code.

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

1.1400 jzlib 1.1.3
1.1400.1 Available under license :
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Eclipse

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

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

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**Oracle**

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

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

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**Oracle OpenJDK**

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

* java.sun.security.ssl

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

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**OW2**

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

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

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**Apache**
The following artifacts are ASL2 licensed.

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

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MortBay

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

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

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.
1.1402 libgd 2.0.35-26.el7

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

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

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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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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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.)

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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<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

Open Source Used In APIC-SE-BATMAN 2.1.1d 14433
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!
*uganda.txt* For Vim version 8.1. Last change: 2018 May 17

VIM REFERENCE MANUAL by Bram Moolenaar

*uganda* *Uganda* *copying* *copyright* *license*
SUMMARY
*iccf* *ICCF*
Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see |kcc| below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for features. See [sponsor]. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see [manual-copyright].

=== begin of license ===

VIM LICENSE

I) There are no restrictions on distributing unmodified copies of Vim except that they must include this license text. You can also distribute unmodified parts of Vim, likewise unrestricted except that they must include this license text. You are also allowed to include executables that you made from the unmodified Vim sources, plus your own usage examples and Vim scripts.

II) It is allowed to distribute a modified (or extended) version of Vim, including executables and/or source code, when the following four conditions are met:
1) This license text must be included unmodified.
2) The modified Vim must be distributed in one of the following five ways:
a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you
must make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation then this license, or a later version, also applies to your changes.

The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.

b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.

c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.

d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:
- The license that applies to the changes permits you to distribute the changes to the Vim maintainer without fee or restriction, and permits the Vim maintainer to include the changes in the official version of Vim without fee or restriction.
- You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.
- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

e) When the GNU General Public License (GPL) applies to the changes, you can distribute the modified Vim under the GNU GPL version 2 or any later version.

3) A message must be added, at least in the output of the ":.version" command and in the intro screen, such that the user of the modified Vim is able to see that it was modified. When distributing as mentioned under 2)e) adding the message is only required for as far as this does not conflict with the license used for the changes.

4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make corrections.
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IV) It is not allowed to remove this license from the distribution of the Vim sources, parts of it or from a modified version. You may use this license for previous Vim releases instead of the license that they came with, at your option.

=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

==============================================================================
Kibaale Children's Centre  *kcc*  *Kibaale*  *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are
many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you
will receive a tax receipt which can be submitted with your
tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse.
This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any
country, mostly from the post office. Use this name (which is
in my passport): "Abraham Moolenaar". Use Euro for the
currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form
that you can use for this. See "Others" below for the swift
code and IBAN number.
Any other method should work. Ask for information about
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Credit Card: You can use PayPal to send money with a Credit card. This is
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really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is
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Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
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Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address
below. Minimal amount: $70 (my bank does not accept smaller
amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:
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1.1411 jetty-servlets 9.4.27.v20200227

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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The following artifacts are CDDL + GPLv2 with classpath exception.  
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.  
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.1413 policycoreutils 2.5 34.el7

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

-------------------------------------------------------------------
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the
    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
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

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      run, you must cause it, when started running for such interactive use
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The End

#!/perl

=head1 NAME
copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C/perl -v output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) { skip_all( "Not all files are available during cross-compilation" ); }

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so # that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
  my $current_year = (gmtime)[5] + 1900;
  is $v_year, $current_year, 'perl -v copyright includes current year';
  is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
  is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
  open my $readme, '<', '../README' or die "Opening README failed: $!";

  # The copyright message is the first paragraph:
  local $/ = '';
  my $copyright_msg = <$readme>;

  my ($year) = $copyright_msg =~ /.*\d{4,}\b/;  
    or die "Year not found in README copyright message '$copyright_msg'";
  $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
  my $output = runperl switches => ['-v'];
  my ($year) = $output =~ /copyright 1987.*\b\d{4,}\b/;  
    or die "Copyright statement not found in perl -v output '$output'";
  $year;
}
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<div
...attributes
class="consul-intention-permission-form"
>
<FormGroup
@name={{name}}
as |group|
>

{{yield (hash

   submit=(action 'submit' changeset)
   reset=(action 'reset' changeset)
   isDirty=(and changeset.isValid)
   changeset=changeset
}))

</fieldset>

<fieldset>
<div data-property="action">

   <span class="label">
   Should this permission allow the source connect to the destination?
   </span>

   <div role="radiogroup" class={{if changeset.error.Action ' has-error'}}>
   {{#each intents as |intent|}}
   <label>
   <span>{{capitalize intent}}</span>
   <input
   type="radio"
   name="Action"
   value={{intent}}
   checked={{if (eq changeset.Action intent) 'checked'}}
   onchange={{action (changeset-set changeset 'Action') value="target.value"}}
   />
   </label>
   {{/each}}

   </div>

</div>
</fieldset>

<fieldset>
<header>
<h2>Path</h2>
</header>
<div>
<group.Element
@name="PathType"
@type="select"
as |el|
>

</div>
</fieldset>
<el.Label>
  Path type
</el.Label>

<PowerSelect
  @options={{pathTypes}}
  @selected={{pathType}}
  @onChange={{action 'change' 'HTTP.PathType' changeset}} as |Type|>
    {{get pathLabels Type}}
  </PowerSelect>
</group.Element>

{{#if shouldShowPathField}}
  <group.Element
    @name="Path"
    @error={{changeset-get changeset 'error.HTTP.Path'}}
    as [el]>
    <el.Label>
      {{get pathLabels pathType}}
    </el.Label>
    <el.Text
      @value={{changeset-get changeset 'HTTP.Path'}}
      oninput={{action 'change' 'HTTP.Path' changeset}}
    />
    <State @state={{el.state}} @matches="error">
      <el.Error>
        {{#if (eq (changeset-get changeset 'HTTP.Path') 'Regex')}}
          Path Regex should not be blank
        {{else}}
          Path should begin with a '/'
        {{/if}}
      </el.Error>
    </State>
  </group.Element>
{{/if}}
</div>
</fieldset>

<fieldset>
  <h2>Methods</h2>
  <div class="type-toggle">
    <span>All methods are applied by default unless specified</span>
  </div>
</fieldset>
<el.Label>
  All Methods
</el.Label>
</group.Element>

{{#if shouldShowMethods}}
<div class="checkbox-group" role="group">
  {{#each methods as |method|}}
  <label class="type-checkbox">
    <input type="checkbox" name="method" value={{method}}
           checked={{if (contains method changeset.HTTP.Methods) 'checked'}}
           onchange={{action 'change' 'method' changeset}} />
    <span>{{method}}</span>
  </label>
  {{/each}}
</div>
{{/if}}

<fieldset>
  <h2>Headers</h2>
  <Consul::Intention::Permission::Header::List
    @items={{changeset-get changeset 'HTTP.Header'}}
    @ondelete={{action 'delete' 'HTTP.Header' changeset}}
  as |headerList|>
  </Consul::Intention::Permission::Header::List>
  <Consul::Intention::Permission::Header::Form
    @onsubmit={{action 'add' 'HTTP.Header' changeset}}
  as [headerForm]>
  <Ref @target={{this}} @name="headerForm" @value={{headerForm}} />
  </Consul::Intention::Permission::Header::Form>
<button data-test-add-header
type="button"
class="type-submit"
   disabled={{if (not this.headerForm.isDirty) 'disabled'}}
   onclick={{action this.headerForm.submit}}>
</button>
Add{{#if (gt (get (changeset-get changeset 'HTTP.Header') 'length') 0)}} another{{/if}} header
</button>
<button
type="button"
class="type-cancel"
onclick={ (action this.headerForm.reset) }
>
  Cancel
</button>
</fieldset>
</FormGroup>
</div>
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# Please keep the list sorted.
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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---

layout: commands
page_title: 'Commands: License'
description: >
The license command provides a datacenter-level view of the Consul Enterprise license.
---

# Consul License

Command: `consul license`

The `license` command provides a datacenter-level view of the Consul Enterprise license. This was added in Consul 1.1.0 but Consul 1.10.0 removed the ability to set and reset the license using the CLI. See the [licensing documentation](/docs/enterprise/license/overview) for more information about Consul Enterprise license management.

If ACLs are enabled then a token with operator privileges may be required in order to use this command. Requests are forwarded internally to the leader if required, so this can be run from any Consul node in a cluster. See the [ACL Guide](https://learn.hashicorp.com/consul/security-networking/production-acls) for more information.

```text
Usage: consul license <subcommand> [options] [args]

This command has subcommands for managing the Consul Enterprise license. Here are some simple examples, and more detailed examples are available in the subcommands or the documentation.

Install a new license from a file:

$ consul license put @consul.license

Install a new license from stdin:

$ consul license put -

Install a new license from a string:

$ consul license put "<license blob>"

Retrieve the current license:

$ consul license get

Inspect a license:

$ consul license inspect "<path to license file>"
```
Reset the current license:

```
$ consul license reset
```

For more examples, ask for subcommand help or view the documentation.

Subcommands:
- `get`  Get the active license
- `inspect`  Inspect a signed license
- `put`  Puts a new license in the datacenter
- `reset`  Resets the license in the datacenter

```
## inspect

This command inspects and validates a license. Just like a Consul agent it can load the license from a file on disk or from the `CONSUL_LICENSE` and `CONSUL_LICENSE_PATH` environment variables.

Usage: `consul license inspect [options] [license file]`

Inspect a license contained in a file:

```
$ consul license inspect consul.hclic
```

Inspect a license loaded from the environment:

```
$ consul license inspect
```

This will look at the CONSUL_LICENSE environment variable first and if not present then we will look for the file specified by the CONSUL_LICENSE_PATH environment variable.

The output looks like this:

```
Source: /consul/config/consul.hclic (path from the CONSUL_LICENSE_PATH environment variable)
Product: consul
License ID: 6089174b-a713-74cf-4c8d-856b86f1ce50
Customer ID: 7c020610-60a2-7ccb-c210-20d899e5f3b4
Installation ID: *
Issue Time: 2020-09-14 19:45:56.212195875 +0000 UTC
Start Time: 2020-09-14 00:00:00 +0000 UTC
```
Expiration Time: 2021-09-14 23:59:59.999 +0000 UTC
Termination Time: 2021-09-14 23:59:59.999 +0000 UTC

Modules:
- Global Visibility, Routing and Scale
- Governance and Policy

Features:
- Automated Backups
- Automated Upgrades
- Enhanced Read Scalability
- Network Segments
- Redundancy Zone
- Advanced Network Federation
- Namespaces
- SSO
- Audit Logging
- Admin Partitions

License is valid

... 

## put

-> **Deprecated** The ability to manage the cluster's license via the CLI was removed in Consul 1.10. While the CLI command still exists it will always return an error. This command will be fully removed in a future release.

This command sets the Consul Enterprise license.

Usage: `consul license put [options] LICENSE`

#### API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
  Automated Backups
  Automated Upgrades
```
Enhanced Read Scalability
Network Segments
Redundancy Zone
Advanced Network Federation

```
## get

This command gets the Consul Enterprise license.

Usage: `consul license get [options]`

##### API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
  Automated Backups
  Automated Upgrades
  Enhanced Read Scalability
  Network Segments
  Redundancy Zone
  Advanced Network Federation
```

```
## reset

-> **Deprecated** The ability to manage the cluster's license via the CLI was removed in Consul 1.10. While the CLI command still exists it will always return an error. This command will be fully removed in a future release.

Resets license for the datacenter to the one builtin in Consul binary, if it is still valid. If the builtin license is invalid, the current one stays active.

Usage: `consul license reset [options]`

##### API Options
The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
  Automated Backups
  Automated Upgrades
  Enhanced Read Scalability
  Network Segments
  Redundancy Zone
  Advanced Network Federation
```

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<dt>
    <Tooltip>
        {{item.HTTP.PathType}}
    </Tooltip>
</dt>
<dd>
    {{item.HTTP.Path}}
</dd>

{{/if}}

{{#each item.HTTP.Header as |item|}}
    <dl class="permission-header">
        <dt>
            <Tooltip>
                Header
            </Tooltip>
        </dt>
        <dd>
            {{item.Name}} {{route-match item}}
        </dd>
    </dl>
{{/each}}

{{/each}}
</div>
</BlockSlot>

{{#if onclick}}
    <BlockSlot @name="actions" as |Actions|>
        <Actions as |Action|>
            <Action data-test-edit-action @onclick={{action (optional onclick) item}} @close={{true}}>
                <BlockSlot @name="label">
                    Edit
                </BlockSlot>
            </Action>
            <Action data-test-delete-action @onclick={{action ondelete item}} class="dangerous">
                <BlockSlot @name="label">
                    Delete
                </BlockSlot>
                <BlockSlot @name="confirmation" as |Confirmation|>
                    <Confirmation class="warning">
                        <BlockSlot @name="header">
                            Confirm delete
                        </BlockSlot>
                        <BlockSlot @name="body">
                            <p>
                                Are you sure you want to delete this permission?
                            </p>
                        </BlockSlot>
                        <Confirm>Delete</Confirm>
                    </Confirmation>
                </BlockSlot>
            </Action>
        </Actions>
    </BlockSlot>
{{/if}}
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yaml_v2-4c78c975fe7c825c6d1466c42be594d1df3aba6
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>>> api_gensupport-dfa61ae24628a06502b9c2805d983b57e89399b5
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>>> azure_go-ansiterm-70b2c90b260171e8e29f1eb7d7c17f600c11858d8be
>>> boltodb bolt-b514920ff8f2e0aaf8f857e5a1c2774f385a59ae9
>>> ckenkali_backoff-b02fb2bce11d76a6b977f28e1f771b0fe26f5e3f
>>> client9_misspell-9a1fc2456ae9e8e8b4bbe9d0056b67adeac0d35f7
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>>> dustin_go-humanize-259d2a102b871d7f03e3cd9881a42961a1e486
>>> gemnasium_logrus-airbrake-hook_v2-31e66d4bd4b59d8e67ee7673d24bc54ec73c31810dd
>>> gizak_termui-798ff9b9c6b4047e3f1f88e6069caaa2c6aa6676b
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>>> godbus_dbus-230e4b23db2df81c53ea070377b659da4849ce51
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>>> gogo_protobuf_types-6a92c871a8f53333cf106b2cd9375767208dbb2b7
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>>> googleapis_gax-go-da06d194a00e19ce00d9011a3931c636f66887e7
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>>> gorilla_mux-acf3be1b335e8ce30b2e85130098466ff0eefea
>>> gorilla_securecookie-fa5329ff137028d1f4d3c2a380b4ac298120b5
>>> gorilla_sessions-ca9ada4457415344400d3f9c8559e4f59f896
>>> gorilla_websocket-a91eba7f97777409bc2c43f5534d14dd20c5720
>>> graylog2_go-gelf_gelf-master
>>> grpc-b1a2821ca5a4fd666e48d6bb7d67d584d389d21
>>> hpccloud_tail-a30252cb686a21eb2d0b98123630353ce2f7f1e5
>>> jessevdk_go-flags-9744891aac742cbe3a020b3e769013a420a06f
>>> julienschmidt/httprouter-975b5c47c71c0e3d2764200bf2aae3c4d59ae6e
>>> justinas/alice-1051eaf52fcafed8ead59d28b065f1fcb8274ecc
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>>> d2g_dhcp4client-master
>>> hashicorp_go-cleanhttp-875fb671b3ddc66f8e2f0acc333829c8cb989a38d
>>> hashicorp_memberlist-cef12ad582224d55cf26ca9e3d239e2fcb3432a2

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>>> dbus-1.11.12-1.ph2

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>>> photon-release-2.0-2.ph2

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>>> bzip2-1.0.6-8.ph2
>>> curl-7.59.0-4.ph2
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>>> iputils-20151218-4.ph2
>>> krb5-1.16-2.ph2
>>> libarchive-3.3.1-2.ph2
>>> libcap-2.25-7.ph2

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SECTION 5: GNU General Public License, V3.0

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>>> coreutils-8.27-3.ph2
>>> elfutils-0.169-3.ph2
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>>> gmp-6.1.2-2.ph2

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>>> glib-2.52.1-3.ph2

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>>> ca-certificates-20180919-1.ph2
>>> nspr-4.15-1.ph2
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>>> cenkalti_backoff-b02f2bbce11d7ea6b97f282ef1771b0fe2f65ef3

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>>> client9_misspell-9a1fc2456ac9e8c9b4cbe9d005b6e7adac0d357f

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>>> codegangsta_cli-master

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>>> cpuguy83_go-md2man_md2man-a65d4d2de4d5f7c74868dfa9b202a3c8be315aaa

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>>> d2g_dhcp4-f0e4d29ff0231dce36e250b2ed9ff08412584bca

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>>> deckarep_golang-set-1f0f4ff8d3fbeb932852993ce71c35890f67554

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>>> gemnasium_logrus-airbrake-hook_v2-31e6fd4bd5d98d8ee7673d24bc54ec73c31810dd

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>>> go-check_check-20d25e2804050c1cd24a7eea1e7a6447dd0e74ec

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>>> go-martini/martini-22fa46961aabd2665cf3f1343b146d20028f5071

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protobuf-6a92c871a8f5333cf106b2cdf937567208dbb2b7
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>>> goji/param-d7f49fd7d1ed53fd562e737a8b5bbcc7e3d925e2

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>>> golang_lint-cb00e5669539f047b2f4c53a421a01b0c8e172c6

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>>> google_go-github/github-7a51fb928f52a196d5f31daefb8a489453ef54ff

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>>> google_uuid-f3f4b54b2fabcf1f11dcc939025bb0c109b00ed8
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>>> graylog2_go-gelf_gelf-master

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>>> matryer_resync-d39c09a11215c84aab0b65e323fc47dd6e276af1

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>>> mreiferson_go-httpclient-31f0106b4474f14bc441575c19d3a5fa21aa1f6c

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>>> naoina_denco-9af2ba0e24214bac003821f4a501b131b2e04c75

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>>> sirupsen_logrus-d26492970760ca5d33129d2d799e34be5c4782eb

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graceful-1.2.15.zip/graceful-1.2.15/limit_listen.go

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>>> urfave_cli_v1-0bddddeeb0f650497d603c4ad7b20cfe685682f6

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It was heavily inspired by the go blowfish package.

>>> x_crypto_nacl_secretbox-728b753d0135da6801d45a38e6f43ff55779c5c2

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>>> x_tools_go_buildutil-381149a2d6e5d8f319ccf04bfefc71e03a78b868

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Julian Seward, jseward@bzip.org
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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_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
and the initial implementation of incremental propagation, including the following new or changed files:

```
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c
```

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Bison implementation for Yacc-like parsers in C


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-- vile: txtmode file-encoding=utf-8

>>> openssh-7.5p1-11.ph2

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@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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chkconfig: 2345 11 89
description: sets up CBQ-based traffic control

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IPv6 Hop Limit Target module
Maciej Soltysiak <solt@dns.toxicfilms.tv>
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his C header file is part of the SoftFloat IEC/IEEE Floating-point Arithmetic Package, Release 2.

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Reasonably optimised generic C-code for memcpy on Microblaze
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This code offers a very basic support for this EISA bus present in
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A more complete resource is the third edition of "Linux Device Drivers" by Jonathan Corbet, Alessandro Rubini, and Greg Kroah-Hartman. LDD3 is available for free (under Creative Commons License) from:

http://lwn.net/Kernel/LDD3/

However, keep in mind that all documents are subject to "bit rot". Refer to the source code if things are not working as described here.

Please send questions/comments/patches about Linux PCI API to the "Linux PCI" <linux-pci@atrey.karlin.mff.cuni.cz> mailing list.

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net-tools-1.60-11.ph2


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mkinstalldirs --- make directory hierarchy
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pmap.c - print process memory mapping
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line - read one line


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uuidparse.c --- Interpret uuid encoded information. This program violates the UUID abstraction barrier by reaching into the guts of a UUID.

Based on libuuid/src/uuid_time.c
Copyright (C) 1998, 1999 Theodore Ts'o.

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From Simon Josefsson
-- derivated from coreutils m4/warnings.m4

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setpwnam.c -- edit an entry in a password database.

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Edited 11/10/96 (DD/MM/YY ;-) by Nicolai Langfeldt (janl@math.uio.no)
to read /etc/passwd directly so that passwd, chsh and chfn can work on
machines that run NIS (previously YP). Changes will not be made to
 usernames starting with +.

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Usage:
1) get a struct passwd from getpwnam().
You should assume a struct passwd has an infinite number of fields, so
you should not try to create one from scratch.
2) edit the fields you want to edit.
3) call setpwnam() with the edited struct passwd.

A _normal user_ program should never directly manipulate etc/passwd but
/use getpwnam() and (family, as well as) setpwnam().

But, setpwnam was made to _edit_ the password file. For use by chfn,
chsh and passwd. _I_ _HAVE_ to read and write /etc/passwd directly. Let
those who say nay be forever silent and think about how getpwnam (and
family) works on a machine running YP.

Added checks for failure of malloc() and removed error reporting to
stderr, this is a library function and should not print on the screen, but return appropriate error codes.
27-Jan-97 - poe@daimi.aau.dk

Thanks to "two guys named Ian".

$Author: poer $
$Revision: 1.13 $
$Date: 1997/06/23 08:26:29 $

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Python bindings for the libmount library.

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Written by Ondrej Oprala and Karel Zak

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Bison implementation for Yacc-like parsers in C


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A Bison parser, made by GNU Bison 3.0.4.

Bison interface for Yacc-like parsers in C


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/ Bison implementation for Yacc-like parsers in C


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There are some preprocessor constants that can be defined when compiling for your specific system, for improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any that are found to be deeper in the stack than the current invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.

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alloca.c -- allocate automatically reclaimed memory
(Mostly) portable public-domain implementation -- D A Gwyn

This implementation of the PWB library alloca function, which is used to allocate space off the run-time stack so that it is automatically reclaimed upon procedure exit, was inspired by discussions with J. Q. Johnson of Cornell. J.Otto Tennant <jot@cray.com> contributed the Cray support.

There are some preprocessor constants that can
be defined when compiling for your specific system, for improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any that are found to be deeper in the stack than the current invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.

As a special case, alloca(0) reclaims storage without allocating any. It is a good idea to use alloca(0) in your main control loop, etc. to force garbage collection.

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Heavily modified for GnuPG by Werner Koch

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DRBG: Deterministic Random Bits Generator
Based on NIST Recommended DRBG from NIST SP800-90A with the following properties:
CTR DRBG with DF with AES-128, AES-192, AES-256 cores
Hash DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
HMAC DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
with and without prediction resistance

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nspr-4.15.tar.gz\..\stage\v4.15\src\nspr-4.15.tar\nspr-4.15\nspr\pt\src\malloc\prmalloc.c

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Test Socket Type

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program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation 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 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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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.

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This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
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.

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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!

-------------- SECTION 5: GNU Lesser General Public License, V2.1 ------------

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.
Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must
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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.
2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library.
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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SIL OPEN FONT LICENSE

Version 1.1 - 26 February 2007

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<el.Text
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oninput=[{action 'change' 'Value' changeset}]
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>{{changeset-get changeset 'error.Value.validation'}}
</el.Error>
</State>
</group.Element>
{{/if}}
</div>
</fieldset>
</FormGroup>
</div>

package api

import (  "fmt"  "io/ioutil"  "time"
)

type License struct {
  // The unique identifier of the license  LicenseID string `json:"license_id"`
}
// The customer ID associated with the license
CustomerID string `json:"customer_id"

// If set, an identifier that should be used to lock the license to a
// particular site, cluster, etc.
InstallationID string `json:"installation_id"

// The time at which the license was issued
IssueTime time.Time `json:"issue_time"

// The time at which the license starts being valid
StartTime time.Time `json:"start_time"

// The time after which the license expires
ExpirationTime time.Time `json:"expiration_time"

// The time at which the license ceases to function and can
// no longer be used in any capacity
TerminationTime time.Time `json:"termination_time"

// The product the license is valid for
Product string `json:"product"

// License Specific Flags
Flags map[string]interface{} `json:"flags"

// Modules is a list of the licensed enterprise modules
Modules []string `json:"modules"

// List of features enabled by the license
Features []string `json:"features"

}

type LicenseReply struct {
Valid bool
License *License
Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
var reply LicenseReply
if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
return nil, err
} else {
return &reply, nil
}
}
func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return "", err
    }
    defer closeResponseBody(resp)
    data, err := ioutil.ReadAll(resp.Body)
    if err != nil {
        return "", err
    }
    return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (*Operator) LicenseReset(_ *WriteOptions) (*LicenseReply, error) {
    return nil, fmt.Errorf("Consul 1.10 no longer supports API driven license management.")
}

// LicensePut will configure the Consul Enterprise license for the target datacenter
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (*Operator) LicensePut(_ string, _ *WriteOptions) (*LicenseReply, error) {
    return nil, fmt.Errorf("Consul 1.10 no longer supports API driven license management.")
}

---
layout: docs
page_title: Consul Enterprise License
description: Consul Enterprise License Overview.
---

# Consul Enterprise License

## Licensing

All Consul Enterprise agents must be licensed when they are started. Where that license comes from will depend
on which binary is in use, whether the agent is a server, client or snapshot agent and whether ACLs have been
enabled for the cluster.
**Consul Enterprise 1.10.0 removed temporary licensing.** In previous versions Consul Enterprise agents could start without a license and then have a license applied to them later on via the CLI or API. That functionality has been removed and replaced with the ability to load licenses from the agent's configuration or environment. Also prior to 1.10.0 server agents would automatically propagate the license between themselves. This no longer occurs and the license must be present on each server when they are started.

Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.

### Binaries with Built In Licenses

If you are downloading Consul from Amazon S3, then the license is included in the binary and you do not need to take further action. This is the most common use case.

In the S3 bucket you will find three Enterprise zip packages. The packages with `+pro` and `+prem` in the name, are the binaries that include the license. The package with `+ent` in the name does not include the license.

When using these binaries no further action is necessary to configure the license.

### Binaries Without Built In Licenses

For Consul Enterprise 1.10.0 or greater, binaries that do not include built in licenses a license must be available at the time the agent starts.

For server agents this means that they must either have the `license_path` configuration set or have a license configured in the servers environment with the `CONSUL_LICENSE` or `CONSUL_LICENSE_PATH` environment variables. Both the configuration item and the `CONSUL_LICENSE_PATH` environment variable point to a file containing the license whereas the `CONSUL_LICENSE` environment variable should contain the license as the value. If multiple of these are set the order of precedence is:

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

Both client agents and the snapshot agent may also be licensed in the very same manner. However to prevent the need to configure the license on many client agents and snapshot agents those agents have the capability to retrieve the license automatically under specific circumstances.

#### Client Agent License Retrieval

When a client agent starts without a license in its configuration or environment, it will try to retrieve the license from the servers via RPCs. That RPC always requires a valid non-anonymous ACL token to authorize the request but the token doesn't need any particular permissions. As the license is required before the client actually joins the cluster, where to make those RPC requests to is inferred from the

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Open Source Used In APIC-SE-BATMAN 2.1.1d 15131
If all preliminary checks pass the client agent will attempt to reach out to any server on its RPC port to request the license. These requests will be retried for up to 5 minutes and if it is unable to retrieve a license within that time frame it will shut itself down.

If ACLs are disabled then the license must be provided to the client agent through one of the three methods listed below.
Failure in providing the client agent with a licence will prevent the client agent from joining the cluster.

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

#### Snapshot Agent License Retrieval

The snapshot agent has similar functionality to the client agent for automatically retrieving the license. However, instead of requiring a server agent to talk to, the snapshot agent can request the license from the server or client agent it would use for all other operations. It still requires an ACL token to authorize the request. Also like client agents, the snapshot agent will shut itself down after being unable to retrieve the license for 5 minutes.

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    display: flex; 
    width: 100%; 
  } 
  strong { 
    margin-right: 8px; 
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} 

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```hbs
```
```html
```
## Arguments

<table>
<thead>
<tr>
<th>Argument/Attribute</th>
<th>Type</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
<tbody>
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<td><code>String</code></td>
<td><code>info</code></td>
<td>Type of notice [info</td>
</tr>
</tbody>
</table>

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- [Template Source Code](./index.hbs)

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@import './skin';
@import './layout';

%notice {
    margin: 1em 0;
}

/* */
.notice.success {
    @extend %notice-success;
}

.notice.warning {
    @extend %notice-warning;
}

.notice.error {
    @extend %notice-error;
}

.notice.info {
    @extend %notice-info;
}

.notice.highlight {
    @extend %notice-highlight;
}

.notice.policy-management {
    @extend %notice-highlight;
}

.notice.crd::before {
    -webkit-mask-image: none;
    mask-image: none;
    background-color: transparent;
    @extend %with-logo-kubernetes-color-icon;
}

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---

layout: api
page_title: License - Operator - HTTP API
description: |
The /operator/license endpoint allows for retrieving the Consul Enterprise License.
---

# License - Operator HTTP API

<EnterpriseAlert/>

The licensing functionality described here is available only in [Consul Enterprise](https://www.hashicorp.com/products/consul/) version 1.1.0 and later.

## Getting the Consul License

This endpoint gets information about the current license.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>GET</code></td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

The table below shows this endpoint's support for [blocking queries](/api/features/blocking), [consistency modes](/api/features/consistency), [agent caching](/api/features/caching), and [required ACLs](/api#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>all</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` (string: `""`) - Specifies the datacenter whose license should be retrieved. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Request

```shell-session
$ curl
```
### Sample Response
```json
{
    "Valid": true,
    "License": {
        "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
        "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
        "installation_id": "*",
        "issue_time": "2018-05-21T20:03:35.911567355Z",
        "start_time": "2018-05-21T04:00:00Z",
        "expiration_time": "2019-05-22T03:59:59.999Z",
        "product": "consul",
        "flags": {
            "package": "premium"
        },
        "features": [
            "Automated Backups",
            "Automated Upgrades",
            "Enhanced Read Scalability",
            "Network Segments",
            "Redundancy Zone",
            "Advanced Network Federation"
        ],
        "temporary": false
    },
    "Warnings": []
}
```
[agent caching](/api/features/caching), and
[required ACLs](/api#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
<td><code>operator:write</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be updated. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Payload

The payload is the raw license blob.

### Sample Request

```
$ curl \
   --request PUT \
   --data @consul.license \
   http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```
{
   "Valid": true,
   "License": {
      "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
      "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
      "installation_id": "*",
      "issue_time": "2018-05-21T20:03:35.911567355Z",
      "start_time": "2018-05-21T04:00:00Z",
      "expiration_time": "2019-05-22T03:59:59.999Z",
      "product": "consul",
      "flags": {
         "package": "premium"
      },
      "features": [
         "Automated Backups",
         "Automated Upgrades",
         "Enhanced Read Scalability",
         "Network Segments",
         "Redundancy Zone",
```
### Resetting the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with the ability to manage the cluster's license via the API.

This endpoint resets the Consul license to the license included in the Enterprise binary. If the included license is not valid, the replace will fail.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>DELETE</code></td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

The table below shows this endpoint's support for [blocking queries](/api/features/blocking), [consistency modes](/api/features/consistency), [agent caching](/api/features/caching), and [required ACLs](/api#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
<td><code>operator:write</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` *(string: "")* - Specifies the datacenter whose license should be updated. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Request

```shell-session
$ curl \
  --request DELETE \
  http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```json
{

```
"Valid": true,
"License": {
  "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
  "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
  "installation_id": "*",
  "issue_time": "2018-05-21T20:03:35.911567355Z",
  "start_time": "2018-05-21T04:00:00Z",
  "expiration_time": "2019-05-22T03:59:59.999Z",
  "product": "consul",
  "flags": {
    "package": "premium"
  },
  "features": [
    "Automated Backups",
    "Automated Upgrades",
    "Enhanced Read Scalability",
    "Network Segments",
    "Redundancy Zone",
    "Advanced Network Federation"
  ],
  "temporary": false
},
"Warnings": []
}
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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// no documentation yet
type Legal_RegulatedWorkload struct {
    Entity

    // no documentation yet
    Account *Account `json:"account,omitempty" xmlrpc:"account,omitempty"

    // no documentation yet
    AccountId *int `json:"accountId,omitempty" xmlrpc:"accountId,omitempty"

    // no documentation yet
    EnabledFlag *bool `json:"enabledFlag,omitempty" xmlrpc:"enabledFlag,omitempty"

    // no documentation yet
    Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"

    // no documentation yet
    Type *Legal_RegulatedWorkload_Type `json:"type,omitempty" xmlrpc:"type,omitempty"

    // no documentation yet
    WorkloadTypeId *int `json:"workloadTypeId,omitempty" xmlrpc:"workloadTypeId,omitempty"
}

type Legal_RegulatedWorkload_Type struct {
    Entity

    // no documentation yet
Id *int `json:"idomitempty" xmlrpc:"id,omitempty"

// no documentation yet
KeyName *string `json:"keyName,omitempty" xmlrpc:"keyName,omitempty"

// no documentation yet
Name *string `json:"name,omitempty" xmlrpc:"name,omitempty"
}

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# Frequently Asked Questions (FAQ)

This FAQ is for the license changes introduced in Consul Enterprise version 1.10.0. Consul Enterprise automatically loads Consul licenses when the server agent starts.

## Q: Can I get a quick summary of the Consul changes?

Starting with Consul Enterprise 1.10.0, the license enablement process is different.

HashiCorp Enterprise servers will no longer start without a license. Servers require licenses to be provided from either an environment variable or file.

If the license is missing, invalid, or expired, the server will immediately exit.

This check is part of the server boot-up process.

In previous versions of HashiCorp enterprise products, one server could distribute a license to other servers via the Raft protocol.

This will no longer work since each server must be able to find a valid license during the startup process.

## Q: What are the upgrade requirements?

All customers on Consul Enterprise 1.8/1.9 must first upgrade their client and server agents to the latest patch release.

During the upgrade the license file must also be configured on client agents in an environment variable or file path, otherwise the Consul agents will fail to retrieve the license with a valid agent token.

The upgrade process varies if ACLs are enabled or disabled in the cluster.

Refer to the instructions on [upgrading to 1.10.x](https://www.consul.io/docs/enterprise/upgrades) for details.

## Q: Is there a tutorial available for the license configuration steps?

Please visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise).

## Q: What resources are available?

The list below is a great starting point for learning more about the license changes introduced in Consul Enterprise 1.10.0+ent.

- [Consul Enterprise Upgrade Documentation](https://www.consul.io/docs/enterprise/upgrades)

- [Consul License Documentation](https://www.consul.io/docs/enterprise/license)

- [License configuration values documentation](https://www.consul.io/docs/enterprise/license/overview#binaries-without-built-in-licenses)

- [Install a HashiCorp Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-...
## Q: Do these changes impact all customers/licenses?

The license changes introduced in 1.10.0 only affect Consul Enterprise. This impacts customers that have an enterprise binary (evaluation or non-evaluation licenses) downloaded from https://releases.hashicorp.com. The license changes do not impact customers with the baked-in licensed binaries. In a later release of Consul Enterprise, baked-in binaries will be deprecated.

## Q: What is the product behavior change introduced by the licensing changes?

Starting with Consul Enterprise 1.10.0, a valid license is required on-disk (auto-loading) or as an environment variable for Consul Enterprise to successfully boot-up. The in-storage license feature will not be supported starting with Consul Enterprise 1.10.0+ent. All Consul Enterprise clusters using 1.10.0+ent must ensure that there is a valid license on-disk (auto-loaded) or as an environment variable.

## Q: What is the impact on evaluation licenses due to this change?

The 6-hour trial period for evaluation licenses will be deprecated as of Consul Enterprise 1.10.0. This means that any clusters deployed with Consul 1.10.0+ent binaries will need to have a valid license on the disk (auto-loaded) or as an environment variable. Failure to provide a valid license key will result in the Consul server agent not starting.

## Q: Is there a grace period when licenses expire?

A license includes an `expiration_date` and a `termination_date`. An enterprise binary will cease to function once the `termination_date` has passed. Licenses will now have a 24 hrs grace period. The grace period is the time between license expiry until the time it terminates. As Consul Enterprise approaches the expiration date, warnings will be issued in the system logs.

## Q: Does this affect client agents?

There are upgrade requirements that affect Consul Enterprise clients. Please review the [upgrade requirements](faq#q-what-are-the-upgrade-requirements) documentation.

## Q: Does this affect snapshot agents?

Same behavior as Consul clients. See answer for [Does this affect client agents?](faq#q-does-this-affect-client-agents)

## Q: What is the behavior if the license is missing?

Consul server agents will detect the absence of the license and immediately exit. Consul client agents will attempt to retrieve the license from servers if certain conditions are met.
- ACLs are enabled.
- An ACL token is provided to the client agent.
- The client agents configuration contains `start_join/retry_join` addresses.
- The start/retry join addresses are addresses of the Consul servers.

Consul snapshot agents will attempt to retrieve the license from servers if certain conditions are met: ACLs are enabled, a ACL token is provided to the client agent, the client agents configuration contains `start_join/retry_join` addresses, the start/retry join addresses are addresses of the Consul servers.

## Q: Where can users get a trial license for Consul Enterprise?

Visit https://www.consul.io/trial for a free 30-day trial license.

## Q: Are the license files locked to a specific cluster?

The license files are not locked to a specific cluster or cluster node. The above changes apply to all nodes in a cluster.

## Q: Will this impact HCP Consul?

This will not impact HCP Consul.

## Q: Does this need to happen every time a node restarts, or is this a one-time check?

Consul Enterprise binaries starting with 1.10.0+ent, will be subject to EULA check. Release 1.10.0+ent introduces the EULA check for evaluation licenses (non-evaluation licenses already go through EULA check during contractual agreement).

The agreement to a EULA happens only once (when the user gets their license), Consul Enterprise **will** check for the presence of a valid license every time a node restarts**.

When a customer upgrades existing clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be auto-loaded.

When a customer deploys new clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be on-disk (auto-loaded).

## Q: What are the scenarios that a customer must plan for because of these changes?

New Consul cluster deployments using 1.10.0+ent will need to have a valid license on servers to successfully deploy.
This valid license must be on-disk (auto-loaded) or as an environment variable.
Please see the [upgrade requirements](faq#q-what-are-the-upgrade-requirements).

## Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?
### VM

1. Run `consul license get -signed` to extract the license from their running cluster. Store the license in a secure location on disk.
2. Set up the necessary configuration so that when Consul Enterprise reboots it will have access to the required license. This could be via the client agent configuration file or an environment variable.
3. Visit the Enterprise License Tutorial for detailed steps on how to install the license key.
4. Follow the Consul upgrade documentation.

### Kubernetes

**NOTE:** If you are not upgrading Consul or your Helm chart version then no action is required.

1. In order to use Consul Enterprise 1.10.0 or greater on Kubernetes you must use version 0.32.0 or greater of the Helm chart.
2. You should already have a Consul Enterprise license set as a Kubernetes secret. If you do not, then if you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email support-softwaredelivery@hashicorp.com for information on how to get your organization's enterprise license. Once you have the license then create a Kubernetes secret containing the license as described in [Kubernetes - Consul Enterprise].
3. Follow the Kubernetes Upgrade Docs to upgrade. No changes to your `values.yaml` file are needed to enable enterprise autoloading since this support is built in to consul-helm 0.32.0 and greater.

-> **WARNING:** If you are upgrading the Helm chart but not upgrading the Consul version, you must set `server.enterpriseLicense.enableLicenseAutoload: false`. See [Kubernetes - Consul Enterprise] for more details.

## Q: What is the migration path for customers who want to migrate from their existing perpetually-licensed binaries to the license on disk flow?

### VM

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email support-softwaredelivery@hashicorp.com for information on how to get your organization's enterprise license.
2. Store the license in a secure location on disk.
3. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.
   - Visit the Enterprise License Tutorial for detailed steps on how to install the license key.
4. Follow the Consul upgrade documentation.

### Kubernetes

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email support-softwaredelivery@hashicorp.com for information on how to get your organization's enterprise license.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.

Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.

1. Proceed with the `helm` upgrade instructions

## Q: Will Consul downgrades/rollbacks work?

When downgrading to a version of Consul before 1.10.0+ent, customers will need to follow the previous process for applying an enterprise licenses to Consul Enterprise.

## Q: Are there potential pitfalls when downgrading or upgrading Consul server instances?

-> Verify that you meet the [upgrade requirements](faq#q-what-are-the-upgrade-requirements).

Assume a scenario where there are three Consul server nodes:

- Node A: v1.9.5
- Node B: v1.10.0 [Leader]
- Node C: v1.9.5

The command `consul license put` is issued from Node A. This will result in an error due to how Consul routes calls to the server node, Node B in this example.

Because Node A is a follower when the call `consul license put` is issued, the call will be redirected to Node B (leader).

The `consul license put` operation will fail due to being removed from 1.10.0.

This is a scenario that could occur if a customer downgrades from 1.10.0+ and the Consul leadership has not transferred back over to a node not running 1.10.0+

This also has the potential of occurring when upgrading if scheduled license updates or autoscaling groups recoveries are in place.

## Q: Any impacts to Consul Kubernetes?

If you are using a Consul Enterprise version prior to 1.10.0 and decide to upgrade the Helm chart to version 0.32.0 or newer, but not the Consul version.

You will need to add the following configuration.

```yaml
---
server:
enterpriseLicense:
  enableLicenseAutoload: false
---
```

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Bits of Go-lang's `once.Do()` were cribbed and reused here, too.

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/*
 * regex.h -- regular expression definitions for lsof
 */
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When the dialect has a POSIX-conformant regular expression function set, USE_LIB_REGEX is not defined and this header file include's <regex.h>.

V. Abell <abe@purdue.edu>
Purdue University

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#ifdef USE_LIB_REGEX

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*/

/* Definitions for data structures and routines for the regular
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1.1424 pcollections 3.0.5

1.1425 netty-tcnative-boringssl-static

2.0.24.Final

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1.1426 zlib 1.2.5
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version 1.2.11, January 15th, 2017

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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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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collection/SortedMultisetBridge.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/reflect/Element.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/AbstractBiMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ReverseNaturalOrdering.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/package-info.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/SortedLists.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/VerifyException.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Utf8.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Verify.java

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jar/com/google/common/collection/RegularImmutableSortedSet.java
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* /opt/cola/permits/115090999_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ImmutableEnumSet.java
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* /opt/cola/permits/115090999_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/Callables.java
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jar/com/google/common/base/Optional.java
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jar/com/google/common/common/math/LongMath.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/common/cache/LoadingCache.java
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jar/com/google/common/common/util/concurrent/WrappingExecutorService.java

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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/Table.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/RegularImmutableBiMap.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/ImmutableBiMap.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/ForwardingImmutableCollection.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/MinMaxPriorityQueue.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/SortedMapDifference.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/RowSortedTable.java
*/
jar/com/google/common/annotations/Beta.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ForwardingSetMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/Atomics.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collection/ImmutableRangeMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collection/ImmutableRangeSet.java
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jar/com/google/common/hash/SipHashFunction.java
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jar/com/google/common/collect/FilteredKeyMultimap.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
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  jar/com/google/common/collect/MultimapBuilder.java
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The of the start-stop-daemon

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* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>, public domain.
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 */
/**
 * Constructs a new [@link Textifier]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [@link #Textifier(int)]
 * version.
 *
 * @throws IllegalStateException
 *   If a subclass calls this constructor.
 */
Found in path(s):
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*/

/**
* Creates a new [@link AnalyzerAdapter]. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the
* [@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)]
* version.
* 
* @param owner
*     the owner's class name.
* @param access
*     the method's access flags (see [@link Opcodes]).
* @param name
*     the method's name.
* @param desc
    * the method's descriptor (see [@link Type Type]).
* @param mv
    * the method visitor to which this adapter delegates calls. May
    * be <tt>null</tt>.
* @throws IllegalStateException
    * If a subclass calls this constructor.
*/

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jar/org/objectweb/asm/TypeReference.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/TypePath.java

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/**
 * Constructs a new [@link LocalVariableAnnotationNode]. <i>Subclasses must not use this constructor</i>. Instead, they must use the [@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)] version.
 *
 * @param typeRef a reference to the annotated type. See [@link TypeReference].
 * @param typePath the path to the annotated type argument, wildcard bound, array element type, or static inner type within 'typeRef'. May be <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 * @param start the fist instructions corresponding to the continuous ranges that make the scope of this local variable (inclusive).
 * @param end the last instructions corresponding to the continuous ranges that make the scope of this local variable (exclusive). This array must have the same size as the 'start' array.
 * @param index the local variable's index in each range. This array must have the same size as the 'start' array.
 * @param desc the class descriptor of the annotation class.
 */

Found in path(s):
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java
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* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/tree/LineNumberNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/tree/analysis/Frame.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/util/TraceMethodVisitor.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/optimizer/ConstantPool.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/MethodWriter.java
jar/org/objectweb/asm/commons/StaticInitMerger.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/util/TraceClassVisitor.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/Type.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/tree/LabelNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/optimizer/NameMapping.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/tree/JumpInsnNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/util/TraceFieldVisitor.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/AnnotationWriter.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/util/ASMifier.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/tree/AnnotationNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/commons/SimpleRemapper.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/optimizer/JarOptimizer.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/optimizer/FieldConstantsCollector.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/signature/SignatureReader.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/Handler.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/Frame.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/commons/Remapper.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/util/CheckSignatureAdapter.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/MethodVisitor.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/tree/MethodNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/ClassReader.java

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  jar/org/objectweb/asm/util/ASMifiable.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/util/Textifiable.java
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/**
 * Constructs a new { @link ClassNode}. <i>Subclasses must not use this
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 * version.
 *
 * @throws IllegalStateException
 *       If a subclass calls this constructor.
 */

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  jar/org/objectweb/asm/xml/SAXAdapter.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/xml/SAXClassAdapter.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/xml/ASMContentHandler.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/xml/Processor.java
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  jar/org/objectweb/asm/xml/SAXCodeAdapter.java
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  jar/org/objectweb/asm/xml/SAXFieldAdapter.java

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  jar/org/objectweb/asm/optimizer/shrink-resize.properties
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/optimizer/shrink-frames.properties
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/optimizer/shrink-annotations.properties
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/optimizer/shrink-writer.properties
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/optimizer/shrink.properties
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
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*/
/**
 * Creates a new JSRInliner. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [ @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])]
 * version.
 *
 * @param mv
 * the <code>MethodVisitor</code> to send the resulting inlined
 * method code to (use <code>null</code> for none).
 * @param access
 * the method's access flags (see {@link Opcodes}). This
 * parameter also indicates if the method is synthetic and/or
 * deprecated.
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see {@link Type}).
 * @param signature
 * the method's signature. May be <tt>null</tt>.
 * @param exceptions
 * the internal names of the method's exception classes (see
 * [ @link Type#getInternalName() getInternalName]). May be
 * <tt>null</tt>.
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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 * Creates a new [@link GeneratorAdapter]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [@link #GeneratorAdapter(int, MethodVisitor, int, String, String)]
 * version.
 *
 * @param mv
 *    the method visitor to which this adapter delegates calls.
 * @param access
 *    the method's access flags (see [@link Opcodes]).
 * @param name
 *    the method's name.
 * @param desc
 *    the method's descriptor (see [@link Type Type]).
 * @throws IllegalStateException
 *    If a subclass calls this constructor.
 */

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1.1442 markupsafe 0.11

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1.1443 libjpeg 1.2.90-8.el7

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 * jdinput.c
 *
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 * Modifications:
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 *
 * This file contains input control logic for the JPEG decompressor.
 * These routines are concerned with controlling the decompressor’s input
 * processing (marker reading and coefficient decoding). The actual input
 * reading is done in jdmaker.c, jdhuff.c, and jdphuff.c.
 */
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdinput.c
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; more details.

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* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jiss2int-64.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jiss2int.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfss2int-64.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfss2int.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jimmxint.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfss2int.asm
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/
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*
* This file contains routines to decode JPEG datastream markers.
* Most of the complexity arises from our desire to support input
* suspension: if not all of the data for a marker is available,
* we must exit back to the application. On resumption, we reprocess
* the marker.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
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 * *
 * This file contains Huffman entropy encoding routines.
 * *
 * Much of the complexity here has to do with supporting output suspension.
 * If the data destination module demands suspension, we want to be able to
 * back up to the start of the current MCU. To do this, we copy state
 * variables into local working storage, and update them back to the
 * permanent JPEG objects only upon successful completion of an MCU.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jchuff.c

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/*
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 *
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 * *
 * This file contains application interface code for the decompression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-decompression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_decompress, it will end up linking in the entire decompressor.
* We thus must separate this file from jdapimin.c to avoid linking the
* whole decompression library into a transcoder.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdapistd.c
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/*
 * jidctfst.c
 *
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 *
 * This file contains a fast, not so accurate integer implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
 * complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 * The primary disadvantage of this method is that with fixed-point math,
 * accuracy is lost due to imprecise representation of the scaled
 * quantization values. The smaller the quantization table entry, the less
 * precise the scaled value, so this implementation does worse with high-
 * quality-setting files than with low-quality ones.
*/

Found in path(s):
/*
 * jdct.h
 *
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 *
 * This include file contains common declarations for the forward and
 * inverse DCT modules. These declarations are private to the DCT managers
 * (j dctmgr.c, j ddctmgr.c) and the individual DCT algorithms.
 * The individual DCT algorithms are kept in separate files to ease
 * machine-dependent tuning (e.g., assembly coding).
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdct.h

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* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJDecompressor.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/TJExample.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/TJUnitTest.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/TJLoader.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJDecompressor.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/TJUnitTest.java

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* *
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* *
* This file contains inverse-DCT routines that produce reduced-size output:
* either 4x4, 2x2, or 1x1 pixels from an 8x8 DCT block.
* *
* The implementation is based on the Loeffler, Ligtenberg and Moschytz (LL&M)
* algorithm used in jidctint.c. We simply replace each 8-to-8 1-D IDCT step
* with an 8-to-4 step that produces the four averages of two adjacent outputs
* (or an 8-to-2 step producing two averages of four outputs, for 2x2 output).
* These steps were derived by computing the corresponding values at the end
* of the normal LL&M code, then simplifying as much as possible.
* *
* 1x1 is trivial: just take the DC coefficient divided by 8.
* *
* See jidctint.c for additional comments.
*/
/*
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 * Modifications:
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
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 * This file contains upsampling routines.
 * Upsampling input data is counted in "row groups". A row group
 * is defined to be (v_samp_factor * DCT_scaled_size / min_DCT_scaled_size)
 * sample rows of each component. Upsampling will normally produce
 * max_v_samp_factor pixel rows from each row group (but this could vary
 * if the upsampler is applying a scale factor of its own).
 * An excellent reference for image resampling is
 */

/*
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 * This file contains code for merged upsampling/color conversion.
 * This file combines functions from jdsample.c and jdcolor.c;
 * read those files first to understand what's going on.
 */
When the chroma components are to be upsampled by simple replication (ie, box filtering), we can save some work in color conversion by calculating all the output pixels corresponding to a pair of chroma samples at one time. In the conversion equations

\[
\begin{align*}
R &= Y + K1 \times Cr \\
G &= Y + K2 \times Cb + K3 \times Cr \\
B &= Y + K4 \times Cb
\end{align*}
\]

* only the Y term varies among the group of pixels corresponding to a pair of chroma samples, so the rest of the terms can be calculated just once.
* At typical sampling ratios, this eliminates half or three-quarters of the multiplications needed for color conversion.

This file currently provides implementations for the following cases:
* YCbCr => RGB color conversion only.
* Sampling ratios of 2h1v or 2h2v.
* No scaling needed at upsample time.
* Corner-aligned (non-CCIR601) sampling alignment.
* Other special cases could be added, but in most applications these are the only common cases. (For uncommon cases we fall back on the more general code in jdsample.c and jdcolor.c.)

*/

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/*
 * jctrans.c
 *
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 *
 * This file contains library routines for transcoding compression,
 * that is, writing raw DCT coefficient arrays to an output JPEG file.
 * The routines in jcapimin.c will also be needed by a transcoder.
 */

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 * jcprepct.c
 *
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*
* This file contains the compression preprocessing controller.
* This controller manages the color conversion, downsampling,
* and edge expansion steps.
*
* Most of the complexity here is associated with buffering input rows
* as required by the downsampler. See the comments at the head of
* jcsample.c for the downsampler's needs.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcprepct.c
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/*
* jcapimin.c
*
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*
* This file contains application interface code for the compression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-compression case or the transcoding-only
* case.
*
* Most of the routines intended to be called directly by an application
* are in this file or in jcapistd.c. But also see jcpam.c for
* parameter-setup helper routines, jcomapi.c for routines shared by
* compression and decompression, and jctrans.c for the transcoding case.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcapimin.c
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/*
* jdpostct.c
*
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This file contains the decompression postprocessing controller. This controller manages the upsampling, color conversion, and color quantization/reduction steps; specifically, it controls the buffering between upsample/color conversion and color quantization/reduction.

If no color quantization/reduction is required, then this module has no work to do, and it just hands off to the upsample/color conversion code. An integrated upsample/convert/quantize process would replace this module entirely.

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 * jpegint.h
 *
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 *
 * This file provides common declarations for the various JPEG modules.
 * These declarations are considered internal to the JPEG library; most
 * applications using the library shouldn't need to include this file.
 */

/*
 * jdmrgext.c
 *
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 *
 * This file contains code for merged upsampling/color conversion.
 */

/*
 * Found in path(s):
 */
/*
 * rdtarga.c
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 *
 * This file contains routines to read input images in Targa format.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed Targa format).
 *
 * Based on code contributed by Lee Daniel Crocker.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdmrgext.c
No license file was found, but licenses were detected in source scan.

/*
 * transupp.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains image transformation routines and other utility code
 * used by the jpegtran sample application. These are NOT part of the core
 * JPEG library. But we keep these routines separate from jpegtran.c to
 * ease the task of maintaining jpegtran-like programs that have other user
 * interfaces.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/transupp.c
No license file was found, but licenses were detected in source scan.

/*
* jddctmgr.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2002-2010 by Guido Vollbeding.
* Modifications:
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the inverse-DCT management logic.
* This code selects a particular IDCT implementation to be used,
* and it performs related housekeeping chores. No code in this file
* is executed per IDCT step, only during output pass setup.
*
* Note that the IDCT routines are responsible for performing coefficient
* dequantization as well as the IDCT proper. This module sets up the
* dequantization multiplier table needed by the IDCT routine.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jddctmgr.c

No license file was found, but licenses were detected in source scan.

/*
* jQuery JavaScript Library v1.3.2
* http://jquery.com/
*
* Copyright (c) 2009 John Resig
* Dual licensed under the MIT and GPL licenses.
* http://docs.jquery.com/License
*
* Date: 2009-02-19 17:34:21 -0500 (Thu, 19 Feb 2009)
* Revision: 6246
*/

/*
* Sizzle CSS Selector Engine - v0.9.3
* Copyright 2009, The Dojo Foundation
* Released under the MIT, BSD, and GPL Licenses.
* More information: http://sizzlejs.com/
*/

* jQuery UI 1.7.2
*
* Copyright (c) 2009 AUTHORS.txt (http://jqueryui.com/about)
* Dual licensed under the MIT (MIT-LICENSE.txt)
* and GPL (GPL-LICENSE.txt) licenses.
*
* http://docs.jquery.com/UI
*/
/**
* jQuery.ScrollTo - Easy element scrolling using jQuery.
* Copyright (c) 2008 Ariel Flesler - aflesler(at)gmail(dot)com
* Licensed under GPL license (http://www.opensource.org/licenses/gpl-license.php).
* Date: 2/8/2008
* @author Ariel Flesler
* @version 1.3.2
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/doc/html/jquery.js
No license file was found, but licenses were detected in source scan.

/*
* jccoefct.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the coefficient buffer controller for compression.
* This controller is the top level of the JPEG compressor proper.
* The coefficient buffer lies between forward-DCT and entropy encoding steps.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jccoefct.c
No license file was found, but licenses were detected in source scan.

/*
* jerror.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file defines the error and message codes for the JPEG library.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
* A set of error-reporting macros are defined too. Some applications using
* the JPEG library may wish to include this file to get the error codes
* and/or the macros.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jerror.h
No license file was found, but licenses were detected in source scan.

/*
 * rdcolmap.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file implements djpeg's "-map file" switch. It reads a source image
 * and constructs a colormap to be supplied to the JPEG decompressor.
 *
 * Currently, these file formats are supported for the map file:
 * GIF: the contents of the GIF's global colormap are used.
 * PPM (either text or raw flavor): the entire file is read and
 * each unique pixel value is entered in the map.
 * Note that reading a large PPM file will be horrendously slow.
 * Typically, a PPM-format map file should contain just one pixel
 * of each desired color. Such a file can be extracted from an
 * ordinary image PPM file with ppmtomap(1).
 *
 * Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not
 * currently implemented.
 */

/* Portions of this code are based on the PBMPPLUS library, which is:
 **
 ** Copyright (C) 1988 by Jef Poskanzer.
 **
 ** Permission to use, copy, modify, and distribute this software and its
 ** documentation for any purpose and without fee is hereby granted, provided
 ** that the above copyright notice appear in all copies and that both that
 ** copyright notice and this permission notice appear in supporting
 ** documentation. This software is provided "as is" without express or
 ** implied warranty.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdcolmap.c
No license file was found, but licenses were detected in source scan.

/*
 * jdcobct.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the coefficient buffer controller for decompression.
 * This controller is the top level of the JPEG decompressor proper.
 * The coefficient buffer lies between entropy decoding and inverse-DCT steps.
 *
 * In buffered-image mode, this controller is the interface between
 * input-oriented processing and output-oriented processing.
 * Also, the input side (only) is used when reading a file for transcoding.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdcobct.c
No license file was found, but licenses were detected in source scan.

/*
 * jcomapi.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface routines that are used for both
 * compression and decompression.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcomapi.c
No license file was found, but licenses were detected in source scan.

/*
 * djjpeg.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010-2011, 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains a command-line user interface for the JPEG decompressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
* 
* Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
* djpeg [options] inputfile outputfile
* djpeg [options] [inputfile]
* In the second style, output is always to standard output, which you'd
* normally redirect to a file or pipe to some other program. Input is
* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes. Also, you MUST use the first style if your system
* doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
* djpeg [options] -outfile outputfile inputfile
* works regardless of which command line style is used.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/djpeg.c
No license file was found, but licenses were detected in source scan.

/*
* jmorecfg.h
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009, 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains additional configuration options that customize the
* JPEG software for special applications or support machine-dependent
* optimizations. Most users will not need to touch this file.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jmorecfg.h
No license file was found, but licenses were detected in source scan.
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/release/ReadMe.rtf
No license file was found, but licenses were detected in source scan.

/*
 * jcmainct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for compression.
 * The main buffer lies between the pre-processor and the JPEG
 * compressor proper; it holds downsampled data in the JPEG colorspace.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcmainct.c
No license file was found, but licenses were detected in source scan.

/*
 * jcarith.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

* This file contains portable arithmetic entropy encoding routines for JPEG

* Both sequential and progressive modes are supported in this single module.

* Suspension is not currently supported in this module.

*/

Found in path(s):

*/

/*
 * rdppm.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2009 by Bill Allombert, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The PBMPLUS library is NOT required to compile this software
 * (but it is highly useful as a set of PPM image manipulation programs).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed PPM format).
 */

/* Portions of this code are based on the PBMPLUS library, which is:
 **
 ** Copyright (C) 1988 by Jef Poskanzer.
 **
 ** Permission to use, copy, modify, and distribute this software and its
 ** documentation for any purpose and without fee is hereby granted, provided
 ** that the above copyright notice appear in all copies and that both that
 ** copyright notice and this permission notice appear in supporting
 ** documentation. This software is provided "as is" without express or
 ** implied warranty.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdppm.c

No license file was found, but licenses were detected in source scan.

/*
 * jcphuff.c
 * *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * *
 * This file contains Huffman entropy encoding routines for progressive JPEG.
 * *
 * We do not support output suspension in this module, since the library
 * currently does not allow multiple-scan files to be written with output
 * suspension.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcphuff.c

No license file was found, but licenses were detected in source scan.

/*
 * jmemsys.h
 * *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * *
 * This include file defines the interface between the system-independent
 * and system-dependent portions of the JPEG memory manager. No other
 * modules need include it. (The system-independent portion is jmemmgr.c;
 * there are several different versions of the system-dependent portion.)
 * *
 * This file works as-is for the system-dependent memory managers supplied
 * in the IJG distribution. You may need to modify it if you write a
 * custom memory manager. If system-dependent changes are needed in
 * this file, the best method is to #ifdef them based on a configuration
 * symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR
 * and USE_MAC_MEMMGR.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jmemsys.h

No license file was found, but licenses were detected in source scan.
/*
 * jidctint.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modification developed 2002-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a slow-but-accurate integer implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
 * complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on an algorithm described in
 * C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
 * Algorithms with 11 Multiplications", Proc. Intl. Conf. on Acoustics,
 * The primary algorithm described there uses 11 multiplies and 29 adds.
 * We use their alternate method with 12 multiplies and 32 adds.
 * The advantage of this method is that no data path contains more than one
 * multiplication; this allows a very simple and accurate implementation in
 * scaled fixed-point arithmetic, with a minimal number of shifts.
 *
 * We also provide IDCT routines with various output sample block sizes for
 * direct resolution reduction or enlargement without additional resampling:
 * NxN (N=1...16) pixels for one 8x8 input DCT block.
 *
 * For N<8 we simply take the corresponding low-frequency coefficients of
 * the 8x8 input DCT block and apply an NxN point IDCT on the sub-block
 * to yield the downscaled outputs.
 * This can be seen as direct low-pass downsampling from the DCT domain
 * point of view rather than the usual spatial domain point of view,
 * yielding significant computational savings and results at least
 * as good as common bilinear (averaging) spatial downsampling.
 *
 * For N>8 we apply a partial NxN IDCT on the 8 input coefficients as
 * lower frequencies and higher frequencies assumed to be zero.
 * It turns out that the computational effort is similar to the 8x8 IDCT
 * regarding the output size.
 * Furthermore, the scaling and descaling is the same for all IDCT sizes.
 *
 * CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
 * since there would be too many additional constants to pre-calculate.
 */
No license file was found, but licenses were detected in source scan.

/*
 * jmennobs.c
 *
 * Copyright (C) 1992-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides a really simple implementation of the system-
 * dependent portion of the JPEG memory manager. This implementation
 * assumes that no backing-store files are needed: all required space
 * can be obtained from malloc().
 * This is very portable in the sense that it'll compile on almost anything,
 * but you'd better have lots of main memory (or virtual memory) if you want
 * to process big images.
 * Note that the max_memory_to_use option is ignored by this implementation.
 */

No license file was found, but licenses were detected in source scan.

/*
 * cjpegc
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for the JPEG compressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 *
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 *cjpeg [options] inputfile outputfile
 *cjpeg [options] [inputfile]
 * In the second style, output is always to standard output, which you'd
 * normally redirect to a file or pipe to some other program. Input is
 * either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
don't support pipes. Also, you MUST use the first style if your system
doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
cjpeg [options] -outfile outputfile inputfile
* works regardless of which command line style is used.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/cjpeg.c
No license file was found, but licenses were detected in source scan.

purpose, subject to the conditions under LEGAL ISSUES, below.

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reasons for developing this free software was to help force convergence on

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/README
No license file was found, but licenses were detected in source scan.

/*
 * jsimd.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jsimd.h
No license file was found, but licenses were detected in source scan.

/*
 * jdatasrc.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.

* Modifications:
* Copyright (C) 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains decompression data source routines for the case of
* reading JPEG data from memory or from a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different source manager.
* IMPORTANT: we assume that fread() will correctly transcribe an array of
* JOCTETs from 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdatasrc.c
No license file was found, but licenses were detected in source scan.

/*
* jfdctint.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a slow-but-accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
*
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
*
* This implementation is based on an algorithm described in
* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jfdctint.c
No license file was found, but licenses were detected in source scan.
* This file contains output colorspace conversion routines.

*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdcolor.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

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This file was part of the Independent JPEG Group's software.
It was modified by The libjpeg-turbo Project to include only information relevant to libjpeg-turbo.
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This file provides an overview of the architecture of the IJG JPEG software; that is, the functions of the various modules in the system and the interfaces between modules. For more precise details about any data structure or calling convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard. The README file includes references for learning about JPEG. The file libjpeg.txt describes the library from the viewpoint of an application programmer using the library; it's best to read that file before this one. Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:
- A "component" means a color channel, e.g., Red or Luminance.
- A "sample" is a single component value (i.e., one number in the image data).
- A "coefficient" is a frequency coefficient (a DCT transform output number).
- A "block" is an 8x8 group of samples or coefficients.
- An "MCU" (minimum coded unit) is an interleaved set of blocks of size determined by the sampling factors, or a single block in a noninterleaved scan.

We do not use the terms "pixel" and "sample" interchangeably. When we say pixel, we mean an element of the full-size image, while a sample is an element of the downsampled image. Thus the number of samples may vary across components while the number of pixels does not. (This terminology is not used rigorously throughout the code, but it is used in places where confusion would otherwise result.)

*** System features ***

The IJG distribution contains two parts:
* A subroutine library for JPEG compression and decompression.
* cjpeg/djpeg, two sample applications that use the library to transform JFIF JPEG files to and from several other image formats.

cjpeg/djpeg are of no great intellectual complexity: they merely add a simple command-line user interface and I/O routines for several uncompressed image formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended sequential, and progressive DCT processes. Hierarchical processes are not supported.

The library does not support the lossless (spatial) JPEG process. Lossless JPEG shares little or no code with lossy JPEG, and would normally be used without the extensive pre- and post-processing provided by this library. We feel that lossless JPEG is better handled by a separate library.

Within these limits, any set of compression parameters allowed by the JPEG spec should be readable for decompression. (We can be more restrictive about what formats we can generate.) Although the system design allows for all parameter values, some uncommon settings are not yet implemented and may never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a run-time option, because most machines can store 8-bit pixels much more compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, libtiff uses this library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

*** Portability issues ***
Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.

2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.

3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

Preprocessing:
* Color space conversion (e.g., RGB to YCbCr).
* Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

JPEG proper:
* MCU assembly, DCT, quantization.
* Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to fwrite(), but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

JPEG proper:
* Entropy decoding (sequential or progressive, Huffman or arithmetic).
* Dequantization, inverse DCT, MCU disassembly.
Postprocessing:
* Upsampling. Optionally, this step may be able to do more general rescaling of the image.
* Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [ currently it does not ].
* Optional color quantization (e.g., reduction to 256 colors).
* Optional color precision reduction (e.g., 24-bit to 15-bit color).
 [This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module. The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (8-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can
choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downscaled data must provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirecting through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see jdatadst.c, which implements the external interface specified by struct jpeg_destination_mgr, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might
have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they’d use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.

*** Overall control structure ***

We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:

   1A. Startup initialization at the beginning of image processing.
       The individual processing modules to be used in this run are selected and given initialization calls.

   1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

   Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

Each buffer controller sees the world as follows:
input data => processing step A => buffer => processing step B => output data
  |               |
------------------ controller ------------------

The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:
* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)
* In some processing modes, a given interstep buffer need only be a "strip" buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required.

The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:

```
|-- Colorspace conversion
    |-- Preprocessing controller --|
    |                             |-- Downsampling
Main controller --|
    |-- Forward DCT, quantize
    |-- Coefficient controller --|
    |                             |-- Entropy encoding
```

This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One
or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.

* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.

* Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.

* Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as Vmax pixel rows of each component before downsampling, and Vk sample rows afterwards (remember Vk differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of 8 samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of 8 rows).

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.

* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of
coefficients.

In addition to the above objects, the compression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own destination manager.

* Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).

* Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.

* Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.

*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:

```
|--- Main controller -->|

|--- Coefficient controller --|

|--- Dequantize, Inverse DCT

|--- Entropy decoding
```

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As before, this diagram also represents typical control flow. The objects shown are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller’s primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.

* Entropy decoding: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.

* Dequantization and inverse DCT: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.

* Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

* Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a
buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.

* Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.

* Color reduction: this module handles color precision reduction, e.g., generating 15-bit color (5 bits/primary) from JPEG's 24-bit output. Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).

In addition to the above objects, the decompression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: jdinput.c controls only input-side processing, while jdmaster.c handles overall initialization and output-side control.

* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a stdio stream or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress
monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller’s DCT coefficient buffer. Note that this processing is relatively cheap and fast.

2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls jpeg_consume_input(); otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because
there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

```c
typedef something JSAMPLE;  // A pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW;  // Ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY;  // Ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE;  // Ptr to a list of color-component arrays
```

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be >= 0. This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use. The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:
* Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many machines.
* Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which
is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as

\[
\text{GETJSAMPLE(image[colorcomponent][row][col])}
\]

where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is represented by N consecutive JSAMPLE values, and an image row is an array of

\[(\text{# of color components}) \times (\text{image width})\, \text{JSAMPLEs}\]

One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is converted to component-wise storage inside the JPEG library. (Applications that want to skip JPEG preprocessing or postprocessing will have to contend with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:

```c
typedef short JCOEF; a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2]; an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW; ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY; ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE; ptr to a list of color component arrays
```

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than "8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems. (This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 blocks, corresponding to eight rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data
structure limits us to rows of less than 512 JBLOCKs, or a picture width of 4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment). We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU: a couple thousand
bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does *not* cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling jpeg_finish_compress() will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

*** Memory manager services ***

The JPEG library's memory manager controls allocation and deallocation of memory, and it manages large "virtual" data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever malloc/free are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two
pools/lifetimes are defined:
* JPOOL_PERMANENT lasts until master record is destroyed
* JPOOL_IMAGE lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, JPOOL_PASS = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:
1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:
   * On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.
   * Pool allocation heuristics may differ for large and small objects.
   Note that individual "large" objects cannot exceed the size allowed by type size_t, which may be 64K or less on some machines.
3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'etre is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn't a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply
allocates the control block, and a "realize" routine (called just once) that determines space allocation and creates all of the actual buffers. The realize routine must allow for space occupied by non-virtual large objects. (We don't bother to factor in the space needed for small objects, on the grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business with the memory manager:

1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their jinit_xxx routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.
3. realize_virt_arrays will be called at the completion of initial setup.

   The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers.

Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the realize_virt_arrays computation.

In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing realize_virt_arrays to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in jdcoeffct.c for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent "front end" (jmemmgr.c) and a "back end" that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides
the following routines for use by the front end (none of these routines
are known to the rest of the JPEG code):

jpeg_mem_init, jpeg_mem_term  system-dependent initialization/shutdown

jpeg_get_small, jpeg_free_small  interface to malloc and free library routines
(or their equivalents)

jpeg_get_large, jpeg_free_large  interface to FAR malloc/free in MSDOS machines;
else usually the same as
jpeg_get_small/jpeg_free_small

jpeg_mem_available  estimate available memory

jpeg_openBacking_store  create a backing-store object

read_backing_store, manipulate a backing-store object
write_backing_store,
close_backing_store

On some systems there will be more than one type of backing-store object
(specifically, in MS-DOS a backing store file might be an area of extended
memory as well as a disk file). jpeg_open_backing_store is responsible for
choosing how to implement a given object. The read/write/close routines
are method pointers in the structure that describes a given object; this
lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly
released upon abnormal program termination. For example, MS-DOS won't free
extended memory by itself. To support this, we will expect the main program
or surrounding application to arrange to call self_destruct (typically via
jpeg_destroy) upon abnormal termination. This may require a SIGINT signal
handler or equivalent. We don't want to have the back end module install its
own signal handler, because that would pre-empt the surrounding application's
ability to control signal handling.

The IJG distribution includes several memory manager back end implementations.
Usually the same back end should be suitable for all applications on a given
system, but it is possible for an application to supply its own back end at
need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image
height (this would be useful for a fax-like scanner's output, for instance).
In these files the SOF marker claims the image height is 0, and you only
find out the true image height at the end of the first scan.
We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.
This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.
We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/structure.txt
No license file was found, but licenses were detected in source scan.

/*
 * jcparam.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains optional default-setting code for the JPEG compressor.
 * Applications do not have to use this file, but those that don't use it
 * must know a lot more about the innards of the JPEG code.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcparam.c
No license file was found, but licenses were detected in source scan.

/*
 * jquant1.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009, D. R. Commander
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains 1-pass color quantization (color mapping) routines.
 * These routines provide mapping to a fixed color map using equally spaced
 * color values. Optional Floyd-Steinberg or ordered dithering is available.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jquant1.c
No license file was found, but licenses were detected in source scan.

/*
 * wrjpgcom.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 */
* This file contains a very simple stand-alone application that inserts
  user-supplied text as a COM (comment) marker in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
  JPEG markers.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrjpgcom.c
No license file was found, but licenses were detected in source scan.

/
* jcinit.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains initialization logic for the JPEG compressor.
* This routine is in charge of selecting the modules to be executed and
  making an initialization call to each one.
*
* Logically, this code belongs in jcmaster.c. It's split out because
* linking this routine implies linking the entire compression library.
* For a transcoding-only application, we want to be able to use jcmaster.c
  without linking in the whole library.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcinit.c
No license file was found, but licenses were detected in source scan.

/
* cdjpeg.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains common support routines used by the IJG application
  programs (cjjpeg, djpeg, jpegtran).
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/cdjpeg.c
No license file was found, but licenses were detected in source scan.

/*
 * jfdctflt.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * This implementation should be more accurate than either of the integer
 * DCT implementations. However, it may not give the same results on all
 * machines because of differences in roundoff behavior. Speed will depend
 * on the hardware's floating point capacity.
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 * The primary disadvantage of this method is that with a fixed-point
 * implementation, accuracy is lost due to imprecise representation of the
 * scaled quantization values. However, that problem does not arise if
 * we use floating point arithmetic.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jfdctflt.c

No license file was found, but licenses were detected in source scan.

/*
 * jdmaster.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 */
* Modified 2002-2009 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2009-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains master control logic for the JPEG decompressor.
* These routines are concerned with selecting the modules to be executed
* and with determining the number of passes and the work to be done in each
* pass.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdmaster.c
No license file was found, but licenses were detected in source scan.

/*================================================================*/

* jquant2.c
* 
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains 2-pass color quantization (color mapping) routines.
* These routines provide selection of a custom color map for an image,
* followed by mapping of the image to that color map, with optional
* Floyd-Steinberg dithering.
* It is also possible to use just the second pass to map to an arbitrary
* externally-given color map.
*
* Note: ordered dithering is not supported, since there isn't any fast
* way to compute intercolor distances; it's unclear that ordered dither's
* fundamental assumptions even hold with an irregularly spaced color map.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jquant2.c
No license file was found, but licenses were detected in source scan.

/*================================================================*/

* jdhuff.c
* 
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
Copyright (C) 2009-2011, D. R. Commander.

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This file contains Huffman entropy decoding routines.

Much of the complexity here has to do with supporting input suspension.

If the data source module demands suspension, we want to be able to back
up to the start of the current MCU. To do this, we copy state variables
into local working storage, and update them back to the permanent
storage only upon successful completion of an MCU.

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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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/release/License.rtf

No license file was found, but licenses were detected in source scan.

; jsimdext.inc - common declarations
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
; Copyright 2010 D. R. Commander
;
; Based on
; x86 SIMD extension for IJG JPEG library - version 1.02
;
; Copyright (C) 1999-2006, MIYASAKA Masaru.
;
; This software is provided 'as-is', without any express or implied
; warranty. In no event will the authors be held liable for any damages
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;
; Permission is granted to anyone to use this software for any purpose,
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; freely, subject to the following restrictions:
;
; 1. The origin of this software must not be misrepresented; you must not
;    claim that you wrote the original software. If you use this software
;    in a product, an acknowledgment in the product documentation would be
;    appreciated but is not required.
; 2. Altered source versions must be plainly marked as such, and must not be
;    misrepresented as being the original software.
; 3. This notice may not be removed or altered from any source distribution.
;
; [TAB8]

; System-dependent configurations

%ifdef WIN32; ----(nasm -fwin32 -DWIN32 ...)---------
; * Microsoft Visual C++
; * MinGW (Minimalist GNU for Windows)
; * CygWin
; * LCC-Win32
; -- segment definition --
;
%ifdef __YASM_VER__
%define SEG_TEXT .text align=16
%define SEG_CONST .rdata align=16
%else
%define SEG_TEXT .text align=16 public use32 class=CODE
%define SEG_CONST .rdata align=16 public use32 class=CONST
%endif

%elifdef WIN64; ----(nasm -fwin64 -DWIN64 ...)--------
; * Microsoft Visual C++

; -- segment definition --
;
%ifdef __YASM_VER__
%define SEG_TEXT .text align=16
%define SEG_CONST .rdata align=16
%else
%define SEG_TEXT .text align=16 public use64 class=CODE
%define SEG_CONST .rdata align=16 public use64 class=CONST
%endif
%define EXTN(name) name			; foo() -> foo

%elifdef OBJ32; ----(nasm -fobj -DOBJ32 ...)----------
; * Borland C++ (Win32)

; -- segment definition --
;
%define SEG_TEXT .text align=16 public use32 class=CODE
%define SEG_CONST .data align=16 public use32 class=DATA

%elifdef ELF; ----(nasm -felf[64] -DELF ...)----------
; * Linux
; * *BSD family Unix using elf format
; * Unix System V, including Solaris x86, UnixWare and SCO Unix

; mark stack as non-executable
section .note.GNU-stack noalloc noexec nowrite progbits

; -- segment definition --
;
%ifdef __x86_64__
%define SEG_TEXT .text progbits align=16
%define SEG_CONST .rodata progbits align=16
%else
%define SEG_TEXT .text progbits alloc exec nowrite align=16

Open Source Used In APIC-SE-BATMAN 2.1.1d 15584
%define SEG_CONST   .rodata progbits alloc nexec norewrite align=16
%endif

; To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL _GLOBAL_OFFSET_TABLE_; ELF supports PIC
%define EXTN(name) name

%elifdef AOUT; ----(nasm -faout/aout -DAOUT ...)----
; * Older Linux using a.out format (nasm -faout -DAOUT ...)
; * *BSD family Unix using a.out format (nasm -faoutb -DAOUT ...)

; -- segment definition --
;
%define SEG_TEXT   .text
%define SEG_CONST  .data

%define SEG_TEXT   .text
%define SEG_CONST  .data

%endif; ----------------------------------------------

; To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL _GLOBAL_OFFSET_TABLE_; BSD-style a.out supports PIC

%elifdef MACHO; ----(nasm -fmacho -DMACHO ...)--------
; * NeXTstep/OpenStep/Rhapsody/Darwin/MacOS X (Mach-O format)

; -- segment definition --
;
%define SEG_TEXT   .text :align=16; nasm doesn't accept align=16. why?
%define SEG_CONST  .rodata align=16

; The generation of position-independent code (PIC) is the default on Darwin.
;
%define PIC
%define GOT_SYMBOL _MACHO_PIC_; Mach-O style code-relative addressing

%else; ----(Other case)----------------------

; -- segment definition --
;
%define SEG_TEXT   .text
%define SEG_CONST  .data

%endif; ----------------------------------------------
Open Source Used In APIC-SE-BATMAN 2.1.1d  15586

ifdef __x86_64__
%define POINTER     qword ; general pointer type
%define SIZEOF_POINTER SIZEOF_QWORD ; sizeof(POINTER)
%define POINTER_BIT  QWORD_BIT ; sizeof(POINTER)*BYTE_BIT
#else
%define POINTER     dword ; general pointer type
%define SIZEOF_POINTER SIZEOF_DWORD ; sizeof(POINTER)
%define POINTER_BIT  DWORD_BIT ; sizeof(POINTER)*BYTE_BIT
#endif

%define INT         dword ; signed integer type
%define SIZEOF_INT   SIZEOF_DWORD ; sizeof(INT)
%define INT_BIT      DWORD_BIT ; sizeof(INT)*BYTE_BIT

%define FP32        dword ; IEEE754 single
%define SIZEOF_FP32 SIZEOF_DWORD ; sizeof(FP32)
%define FP32_BIT    DWORD_BIT ; sizeof(FP32)*BYTE_BIT

%define MMWORD      qword ; int64  (MMX register)
%define SIZEOF_MMWORD SIZEOF_QWORD ; sizeof(MMWORD)
%define MMWORD_BIT  QWORD_BIT ; sizeof(MMWORD)*BYTE_BIT

; NASM is buggy and doesn't properly handle operand sizes for SSE
; instructions, so for now we have to define XMMWORD as blank.
%define XMMWORD qword ; int128 (SSE register)
%define SIZEOF_XMMWORD SIZEOF_QWORD ; sizeof(XMMWORD)
%define XMMWORD_BIT QWORD_BIT ; sizeof(XMMWORD)*BYTE_BIT

; Similar hacks for when we load a dword or MMWORD into an xmm# register
%define XMM_DWORD
%define XMM_MMWORD

%define SIZEOF_BYTE  1 ; sizeof(BYTE)
%define SIZEOF_WORD   2 ; sizeof(WORD)
%define SIZEOF_DWORD  4 ; sizeof(DWORD)
%define SIZEOF_QWORD  8 ; sizeof(QWORD)
%define SIZEOF_OWORD 16 ; sizeof(OWORD)

%define BYTE_BIT     8 ; CHAR_BIT in C
%define WORD_BIT      16 ; sizeof(WORD)*BYTE_BIT
%define DWORD_BIT     32 ; sizeof(DWORD)*BYTE_BIT
%define QWORD_BIT     64 ; sizeof(QWORD)*BYTE_BIT
%define OWORD_BIT     128 ; sizeof(OWORD)*BYTE_BIT

;-------------------------------------------------------------------------
; External Symbol Name
;
ifndef EXTN
%define EXTN(name) _ +%+ name; foo() -> _foo
%endif

; Macros for position-independent code (PIC) support
;
%ifndef GOT_SYMBOL
%undef PIC
%endif

%ifndef PIC ; -------------------------------------------
%ifdef got_symbol
; At present, nasm doesn't seem to support PIC generation for Mach-O.
; The PIC support code below is a little tricky.

SECTION SEG_CONST
const_base:

%define GOTOFF(got,sym) (got) + (sym) - const_base

%imacro get_GOT1
; NOTE: this macro destroys ecx resister.
call %geteip
addecx, byte (%%ref - $)
jmpshort %%adjust
%geteip:
mov ecx, POINTER [esp]
ret
%adjust:
pushebp
xorebp,ebp; ebp = 0
%ifdni %1,ebx (%1 == ebx)
; db 0x8D,0x9C + jmp near const_base =
; lea ebx, [ecx+ebp*8+(const_base-%%ref)] ; 8D,9C,E9,(offset32)
dbx8D,0x9C; 8D,9C
jmpnear const_base; E9,(const_base-%%ref)
%ref:
%else ; (%1 != ebx)
; db 0x8D,0x8C + jmp near const_base =
; lea ecx, [ecx+ebp*8+(const_base-%%ref)] ; 8D,8C,E9,(offset32)
dbx8D,0x8C; 8D,8C
jmpnear const_base; E9,(const_base-%%ref)
%ref:
movl %1, ecx
%endif ; (%1 == ebx)
popebp
%endmacro
%else; GOT_SYMBOL != _MACHO_PIC_ ---------------

%define GOTOFF(got,sym) (got) + (sym) wrt ..gotoff

%imacro get_GOT1
extern GOT_SYMBOL
call%geteip
add%1, GOT_SYMBOL + $$ - $ wrt ..gotpc
jmpshort %%done
%%%geteip:
mov%1, POINTER [esp]
ret
%%%done:
%endmacro

%endif; GOT_SYMBOL == _MACHO_PIC_ ---------------

%imacro pushpic1.nolist
push%1
%endmacro
%imacro poppic1.nolist
pop%1
%endmacro
%imacro movpic2.nolist
mov%1,%2
%endmacro

%else; !PIC -----------------------------------------

%define GOTOFF(got,sym) (sym)

%imacro get_GOT1.nolist
%endmacro
%imacro pushpic1.nolist
%endmacro
%imacro poppic1.nolist
%endmacro
%imacro movpic2.nolist
%endmacro

%endif; PIC -----------------------------------------

; --------------------------------------------------------------------------
; Align the next instruction on {2,4,8,16...}-byte boundary.
; ".balign n,,m" in GNU as
; %define MSKLE(x,y) (~(((y) & 0xFFFF) - ((x) & 0xFFFF)) >> 16)
%define FILLB(b,n) (($$-(b)) & ((n)-1))

%imacro alignx 1-2.nolist 0xFFFF
%imacro times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1) & FILLB($,%1)
  db 0x90 ; nop
  times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/9 
    db 0x8D,0x9C,0x25,0x00,0x00,0x00,0x00,0x00 ; lea ebx,[ebx+0x00000000]
  times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/7 
    db 0x8D,0xAC,0x25,0x00,0x00,0x00,0x00,0x00 ; lea ebp,[ebp+0x00000000]
  times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/6 
    db 0x8D,0x6C,0x25,0x00 ; lea ebp,[ebp+0x00]
  times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/4 
    db 0x8D,0x6D,0x00 ; lea ebp,[ebp+0x00]
  times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/2 
    db 0x8B,0xED ; mov ebp,ebp
  times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1) 
    db 0x90 ; nop
%endmacro

; Align the next data on {2,4,8,16,...}-byte boundary.
;
%imacro alignz 1.nolist
align %1, db 0; filling zeros
%endmacro

%ifdef __x86_64__
%ifdef WIN64

%imacro collect_args 0
push r12
push r13
push r14
push r15
mov r10, rcx
mov r11, rdx
mov r12, r8
mov r13, r9
mov r14, [rax+48]
mov r15, [rax+56]
push rsi
push rdi
sub  rsp, SIZEOF_XMMWORD
movaps XMMWORD [rsp], xmm6
sub  rsp, SIZEOF_XMMWORD
movaps XMMWORD [rsp], xmm7

%endmacro
%endifdef WIN64
%endifdef __x86_64__
%endmacro
%imacro uncollect_args 0
movaps xmm7, XMMWORD [rsp]
add rsp, SIZEOF_XMMWORD
movaps xmm6, XMMWORD [rsp]
add rsp, SIZEOF_XMMWORD
pop rdi
pop rsi
pop r15
pop r14
pop r13
pop r12
%endmacro
%else
%imacro collect_args 0
push r10
push r11
push r12
push r13
push r14
push r15
mov r10, rdi
mov r11, rsi
mov r12, rdx
mov r13, rcx
mov r14, r8
mov r15, r9
%endmacro
%imacro uncollect_args 0
pop r15
pop r14
pop r13
pop r12
pop r11
pop r10
%endmacro
%endif
%endif
; -------------------------------------------------------------------------; Defines picked up from the C headers
;

Open Source Used In APIC-SE-BATMAN 2.1.1d 15590


%include "jsimdcfg.inc"

; --------------------------------------------------------------------------------------------------

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimdext.inc

No license file was found, but licenses were detected in source scan.

/*
 * jchuff.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains declarations for Huffman entropy encoding routines
 * that are shared between the sequential encoder (jchuff.c) and the
 * progressive encoder (jchuff.c). No other modules need to see these.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jchuff.h

No license file was found, but licenses were detected in source scan.

/*
 * jdapimin.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains application interface code for the decompression half
 * of the JPEG library. These are the "minimum" API routines that may be
 * needed in either the normal full-decompression case or the
 * transcoding-only case.
 * Most of the routines intended to be called directly by an application
 * are in this file or in jdapistd.c. But also see jcomapi.c for routines
 * shared by compression and decompression, and jdtrans.c for the transcoding
 * case.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdapimin.c
No license file was found, but licenses were detected in source scan.

/*
 * jpegtran.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1995-2010, Thomas G. Lane, Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for JPEG transcoding.
 * It is very similar to cjpeg.c, and partly to djpeg.c, but provides
 * lossless transcoding between different JPEG file formats. It also
 * provides some lossless and sort-of-lossless transformations of JPEG data.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jpegtran.c

No license file was found, but licenses were detected in source scan.

// Natural Docs is licensed under the GPL.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/doc/html/search/search.js

No license file was found, but licenses were detected in source scan.

/*
 * jdatadst-tj.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2009-2012 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains compression data destination routines for the case of
 * emitting JPEG data to memory or to a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different destination manager.
 * IMPORTANT: we assume that fwrite() will correctly transcribe an array of
 * JOCTETs into 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */
/*
 * rdrle.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Utah RLE format.
 * The Utah Raster Toolkit library is required (version 3.1 or later).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed RLE format).
 *
 * Based on code contributed by Mike Lijewski,
 * with updates from Robert Hutchinson.
 */

/*
 * rdbmp.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2009-2010 by Guido Vollbeding.
 * Modifications:
 * Modified 2011 by Siarhei Siamashka.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Microsoft "BMP"
 * format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
 * Currently, only 8-bit and 24-bit images are supported, not 1-bit or
 * 4-bit (feeding such low-depth images into JPEG would be silly anyway).
 * Also, we don't support RLE-compressed files.
 */
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed BMP format).
*
* This code contributed by James Arthur Boucher.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdbmp.c

No license file was found, but licenses were detected in source scan.

/*
 * jccolor.c
 *
 * This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modifications:
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2009-2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains input colorspace conversion routines.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jccolor.c

No license file was found, but licenses were detected in source scan.

/*
 * rdjpgcom.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2009 by Bill Allombert, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a very simple stand-alone application that displays
 * the text in COM (comment) markers in a JFIF file.
 * This may be useful as an example of the minimum logic needed to parse
 * JPEG markers.
 */

Found in path(s):
License:IJG

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdjpgcom.c

No license file was found, but licenses were detected in source scan.

/

* jconfig.txt

* 

* Copyright (C) 1991-1994, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file documents the configuration options that are required to
* customize the JPEG software for a particular system.
*
* The actual configuration options for a particular installation are stored
* in jconfig.h. On many machines, jconfig.h can be generated automatically
* or copied from one of the "canned" jconfig files that we supply. But if
* you need to generate a jconfig.h file by hand, this file tells you how.
*
* * DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
* * EDIT A COPY NAMED JCONFIG.H.
* /

/

* These symbols indicate the properties of your machine or compiler.
* #define the symbol if yes, #undef it if no.
* /

/* Does your compiler support function prototypes?*/
* (If not, you also need to use ansi2knr, see install.txt)
* /
#define HAVE_PROTOTYPES

/* Does your compiler support the declaration "unsigned char"?*/
* How about "unsigned short"?
* /
#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT

/* Define "void" as "char" if your compiler doesn't know about type void.*/
* NOTE: be sure to define void such that "void *" represents the most general pointer type, e.g., that returned by malloc(). */

/* #define void char */

/* Define "const" as empty if your compiler doesn't know the "const" keyword. */
/* #define const */

/* Define this if an ordinary "char" type is unsigned.
* If you're not sure, leaving it undefined will work at some cost in speed.
* If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal.
*/
#undef CHAR_IS_UNSIGNED

/* Define this if your system has an ANSI-conforming <stddef.h> file. */
#define HAVE_STDDEF_H

/* Define this if your system has an ANSI-conforming <stdlib.h> file. */
#define HAVE_STDLIB_H

/* Define this if your system does not have an ANSI/SysV <string.h>,
* but does have a BSD-style <strings.h>.
*/
#undef NEED_BSD_STRINGS

/* Define this if your system does not provide typedef size_t in any of the
* ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in
* <sys/types.h> instead.
*/
#undef NEED_SYS_TYPES_H

/* For 80x86 machines, you need to define NEED_FAR_POINTERS,
* unless you are using a large-data memory model or 80386 flat-memory mode.
* On less brain-damaged CPUs this symbol must not be defined.
* (Defining this symbol causes large data structures to be referenced through
* "far" pointers and to be allocated with a special version of malloc.)
*/
#undef NEED_FAR_POINTERS

/* Define this if your linker needs global names to be unique in less
* than the first 15 characters.
*/
#undef NEED_SHORT_EXTERNAL_NAMES

/* Although a real ANSI C compiler can deal perfectly well with pointers to... */
* unspecified structures (see "incomplete types" in the spec), a few pre-ANSI
* and pseudo-ANSI compilers get confused. To keep one of these bozos happy,
* define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you
* actually get "missing structure definition" warnings or errors while
* compiling the JPEG code.
*/
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not int, on Windows systems. */
#ifdef _WIN32
#ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
#endif

/*
* The following options affect code selection within the JPEG library,
* but they don't need to be visible to applications using the library.
* To minimize application namespace pollution, the symbols won't be
* defined unless JPEG_INTERNALS has been defined.
*/
#ifdef JPEG_INTERNALS
/* Define this if your compiler implements ">>" on signed values as a logical
* (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
* which is the normal and rational definition.
*/
#undef RIGHT_SHIFT_IS_UNSIGNED
#endif /* JPEG_INTERNALS */

#endif /* JPEG_INTERNALS */

/*
* The remaining options do not affect the JPEG library proper,
* but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).
* Other applications can ignore these.
*/
#ifdef JPEG_CJPEG_DJPEG
/* These defines indicate which image (non-JPEG) file formats are allowed. */
#define BMP_SUPPORTED /* BMP image file format */
*/
#define GIF_SUPPORTED /* GIF image file format */
#define PPM_SUPPORTED /* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED /* Utah RLE image file format */
#define TARGA_SUPPORTED /* Targa image file format */

/* Define this if you want to name both input and output files on the command
 line, rather than using stdout and optionally stdin. You MUST do this if
 your system can't cope with binary I/O to stdin/stdout. See comments at
 head of cjjpeg.c or djpeg.c. */
#undef TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files.
 * This is crucial under MS-DOS, where the temporary "files" may be areas
 * of extended memory; on most other systems it's not as important. */
#undef NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen(...) or fopen(...,"wb").
 * This is necessary on systems that distinguish text files from binary files,
 * and is harmless on most systems that don't. If you have one of the rare
 * systems that complains about the "b" spec, define this symbol. */
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjjpeg/djpeg. */
#undef PROGRESS_REPORT

#endif /* JPEG_CJPEG_DJPEG */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src-rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jconfig.txt
No license file was found, but licenses were detected in source scan.

* jpeglib.h
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modified 2002-2009 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2009-2011, 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file defines the application interface for the JPEG library.
* Most applications using the library need only include this file, 
* and perhaps jerror.h if they want to know the exact error codes.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jpeglib.h
No license file was found, but licenses were detected in source scan.

/*
* jversion.h
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.
* Modifications:
* Copyright (C) 2010, 2012-2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains software version identification.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jversion.h
No license file was found, but licenses were detected in source scan.

# Copyright (C)2009-2011 D. R. Commander. All Rights Reserved.
# Redistribution and use in source and binary forms, with or without
# modification, are permitted provided that the following conditions are met:
# - Redistributions of source code must retain the above copyright notice,
#   this list of conditions and the following disclaimer.
# - Redistributions in binary form must reproduce the above copyright notice,
#   this list of conditions and the following disclaimer in the documentation
# - Neither the name of the libjpeg-turbo Project nor the names of its
#   software without specific prior written permission.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/release/uninstall.in
No license file was found, but licenses were detected in source scan.

IJJ JPEG LIBRARY: CODING RULES

Copyright (C) 1991-1996, Thomas G. Lane.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.
Since numerous people will be contributing code and bug fixes, it's important
to establish a common coding style. The goal of using similar coding styles
is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding
Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and
Brader). This document is available in the IJG FTP archive (see

Block comments should be laid out thusly:

/*
 *  Block comments in this style.
 */

We indent statements in K&R style, e.g.,
if (test) {
    then-part;
} else {
    else-part;
}
with two spaces per indentation level. (This indentation convention is
handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g.,
multi_word_name (not multiWordName). Preprocessor symbols and enum constants
are similar but upper case (MULTI_WORD_NAME). Names should be unique within
the first fifteen characters. (On some older systems, global names must be
unique within six characters. We accommodate this without cluttering the
source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code
transformation to feed prototype-less C compilers. Transformation is done
by the simple and portable tool 'ansi2knr.c' (courtesy of Ghostscript).
ansi2knr is not very bright, so it imposes a format requirement on function
declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions
should be written in the following style:

LOCAL(int *)
function_name (int a, char *b)
{
    code...
}

Note that each function definition must begin with GLOBAL(type), LOCAL(type),
or METHODDEF(type). These macros expand to "static type" or just "type" as
appropriate. They provide a readable indication of the routine's usage and
can readily be changed for special needs. (For instance, special linkage keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in structs). We handle these with a macro JMETHOD, defined as

```c
#ifdef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist)  type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist)  type (*methodname) ()
#endif
```

which is used like this:

```c
struct function_pointers {
    JMETHOD(void, init_entropy_encoder, (int somearg, jmpars *jp));
    JMETHOD(void, term_entropy_encoder, (void));
};
```

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations (see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size_t is defined as long. Needless to say, this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(), so that the result is guaranteed to be of type size_t.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.

2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg ", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.

3. Don't use global variables; anything that must be used in another module should be in the common data structures.
4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpegs.c and djpegs.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpets/djpegs but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/coderules.txt
No license file was found, but licenses were detected in source scan.

;/*
 * jdarith.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy decoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdarith.c
No license file was found, but licenses were detected in source scan.

;/*
 * jcdctmgr.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:

* Copyright (C) 1999-2006, MIYASAKA Masaru.
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2011 D. R. Commander
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains the forward-DCT management logic.
* This code selects a particular DCT implementation to be used,
* and it performs related housekeeping chores including coefficient
* quantization.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcdctmgr.c
No license file was found, but licenses were detected in source scan.

/*
 * jerror.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains simple error-reporting and trace-message routines.
 * These are suitable for Unix-like systems and others where writing to
 * stderr is the right thing to do. Many applications will want to replace
 * some or all of these routines.
 *
 * If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
 * you get a Windows-specific hack to display error messages in a dialog box.
 * It ain't much, but it beats dropping error messages into the bit bucket,
 * which is what happens to stderr under most Windows C compilers.
 *
 * These routines are used by both the compression and decompression code.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jerror.c
No license file was found, but licenses were detected in source scan.

/*
 * Copyright (C)2011 D. R. Commander. All Rights Reserved.
 *
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 *
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* 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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJTransformer.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJTransform.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcstest.c
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/bmp.c
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/TJCustomFilter.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/TJLoader.java.in
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/bmp.h
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/TJScalingFactor.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/TJTransformer.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcstest.c
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/bmp.h
No license file was found, but licenses were detected in source scan.

From c51b66ebcace2adec0cfbe42d25cb418ed0c02a2 Mon Sep 17 00:00:00 2001
From: DRC <information@libjpeg-turbo.org>
Date: Fri, 20 Jul 2018 17:21:36 -0500
Subject: [PATCH] cjpeg: Fix OOB read caused by malformed 8-bit BMP

... in which one or more of the color indices is out of range for the number of palette entries.

Fix partly borrowed from jpeg-9c. This commit also adopts Guido's 
JERR_PPM_OUTOFRANGE enum value in lieu of our project-specific 
JERR_PPM_TOOLARGE enum value.

Fixes #258

---

cderror.h | 5 +++--
rdbmp.c   | 7 ++++++-
rddppm.c  | 4 ++--
3 files changed, 11 insertions(+), 5 deletions(-)

diff --git a/cderror.h b/cderror.h
index d69b501..46b0f49 100644
--- a/cderror.h
+++ b/cderror.h
@@ -2,7 +2,7 @@
* cderror.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
- * Modified 2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* @@ -48,6 +48,7 @@
  JMESSAGE(JERR_BMP_COLORSPACE, "BMP output must be grayscale or RGB")
  JMESSAGE(JERR_BMP_COMPRESSED, "Sorry, compressed BMPs not yet supported")
  JMESSAGE(JERR_BMP_EMPTY, "Empty BMP image")
  JMESSAGE(JERR_BMP_NOT, "Not a BMP file - does not start with BM")
+jMESSAGE(JERR_BMP_OUTOFRANGE, "Numeric value out of range in BMP file")
  JMESSAGE(JTRC_BMP, "%ux%u 24-bit BMP image")
  JMESSAGE(JTRC_BMP_MAPPED, "%ux%u 8-bit colormapped BMP image")
  JMESSAGE(JTRC_BMP_OS2, "%ux%u 24-bit OS2 BMP image")
@@ -74,8 +75,8 @@
  JMESSAGE(JWRN_GIF_NOMOREDATA, "Ran out of GIF bits")
 #ifdef PPM_SUPPORTED
  JMESSAGE(JERR_PPM_COLORSPACE, "PPM output must be grayscale or RGB")
  JMESSAGE(JERR_PPM_NONNUMERIC, "Nonnumeric data in PPM file")
-jMESSAGE(JERR_PPM_TOOLARGE, "Integer value too large in PPM file")
  JMESSAGE(JERR_PPM_NOT, "Not a PPM/PGM file")
+JMESSAGE(JERR_PPM_OUTOF RANGE, "Numeric value out of range in PPM file")
JMESSAGE(JTRC_PGM, "%ux%u PGM image")
JMESSAGE(JTRC_PGM_TEXT, "%ux%u text PGM image")
JMESSAGE(JTRC_PPM, "%ux%u PPM image")
diff --git a/rdbmp.c b/rdbmp.c
index c053074..7a27cab 100644
--- a/rdbmp.c
+++ b/rdbmp.c
@@ -3,7 +3,7 @@
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Modified 2011 by Siarhei Siamashka.
* For conditions of distribution and use, see the accompanying README file.
@@ -64,6 +64,7 @@ typedef struct _bmp_source_struct {
JDIMENSION row_width;/* Physical width of scanlines in file */

int bits_per_pixel;/* remem bers 8- or 24-bit format */
+ int cmap_length; /* colormap length */
} bmp_source_struct;

@@ -124,6 +125,7 @@ get_8bit_row (j_compress_ptr cinfo, cjpeg_source_ptr sinfo)
int t = GETJSAMPLE(*inptr);
    if (t >= cmaplen)
        ERREXIT(cinfo, JERR_BMP_OUTOF RANG E);
    *outptr++ = colormap[0][t];/* can omit GETJSAMPLE() safely */
    *outptr++ = colormap[1][t];
    *outptr++ = colormap[2][t];
@@ -399,6 +403,7 @@ start_input_bmp (j_compress_ptr cinfo, cjpeg_source_ptr sinfo)

source->colormap = (*cinfo->mem->alloc_sarray)
    ((j_common_ptr) cinfo, JPOOL_IMAGE,
        (JDIMENSION) biClrUsed, (JDIMENSION) 3);
+ source->cmap_length = (int)biClrUsed;
/* and read it from the file */
read_colormap(source, (int) biClrUsed, mapentrysize);
/* account for size of colormap */
diff --git a/rdppm.c b/rdppm.c
index 5da1646..59da2bb 100644
--- a/rdppm.c
+++ b/rdppm.c
@@ -76,7 +76,7 @@ typedef struct {
     JSAMPROW pixrow;/* FAR pointer to same */
     size_t buffer_width;/* width of I/O buffer */
     JSAMPLE *rescale;/* => maxval-remapping array, or NULL */
-    int maxval;
+    unsigned int maxval;
 } ppm_source_struct;

 typedef ppm_source_struct * ppm_source_ptr;
@@ -126,7 +126,7 @@ read_pbm_integer (j_compress_ptr cinfo, FILE * infile, int maxval)
 }

 if (val > maxval)
-    ERREXIT(cinfo, JERR_PPM_TOO_LARGE);
+    ERREXIT(cinfo, JERR_PPM_OUTOFRANGE);

     return val;
 }
--
2.17.2

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*
 * jcsample.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains downsampling routines.
 *
 * Downsampling input data is counted in "row groups". A row group
 * is defined to be max_v_samp_factor pixel rows of each component,
 * from which the downsampler produces v_samp_factor sample rows.
 * A single row group is processed in each call to the downsampler module.
 *
 * The downsampler is responsible for edge-expansion of its output data
* to fill an integral number of DCT blocks horizontally. The source buffer
* may be modified if it is helpful for this purpose (the source buffer is
* allocated wide enough to correspond to the desired output width).
* The caller (the prep controller) is responsible for vertical padding.
 *
* The downsampler may request "context rows" by setting need_context_rows
* during startup. In this case, the input arrays will contain at least
* one row group's worth of pixels above and below the passed-in data;
* the caller will create dummy rows at image top and bottom by replicating
* the first or last real pixel row.
 *
* An excellent reference for image resampling is
 *
* The downsampling algorithm used here is a simple average of the source
* pixels covered by the output pixel. The hi-falutin sampling literature
* refers to this as a "box filter". In general the characteristics of a box
* filter are not very good, but for the specific cases we normally use (1:1
* and 2:1 ratios) the box is equivalent to a "triangle filter" which is not
* nearly so bad. If you intend to use other sampling ratios, you'd be well
* advised to improve this code.
 *
* A simple input-smoothing capability is provided. This is mainly intended
* for cleaning up color-dithered GIF input files (if you find it inadequate,
* we suggest using an external filtering program such as pnmconvol). When
* enabled, each input pixel P is replaced by a weighted sum of itself and its
* eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF,
* where SF = (smoothing_factor / 1024).
* Currently, smoothing is only supported for 2h2v sampling factors.
*/
fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/release/deb-control.tmpl
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/ *
* jsimd_x86_64.c
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
* 
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
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* 
* This file contains the interface between the "normal" portions
* of the library and the SIMD implementations when running on a
* x86_64 architecture.
*/

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimd_x86_64.c
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; jdct.inc - private declarations for forward & reverse DCT subsystems
Each IDCT routine is responsible for range-limiting its results and converting them to unsigned form (0..MAXJSAMPLE). The raw outputs could be quite far out of range if the input data is corrupt, so a bulletproof range-limiting step is required. We use a mask-and-table-lookup method to do the combined operations quickly.

%define RANGE_MASK (MAXJSAMPLE * 4 + 3) ; 2 bits wider than legal samples

%define ROW(n,b,s)((b)+(n)*(s))
%define COL(n,b,s)((b)+(n)*(s)*DCTSIZE)

%define DWBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_DWORD)
%define MMBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_MMWORD)
%define XMMBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_XMMWORD)

libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java
interface.

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*******************************************************************************
**     License                  
*******************************************************************************

Most of libjpeg-turbo inherits the non-restrictive, BSD-style license used by libjpeg (see README.) The TurboJPEG wrapper (both C and Java versions) and associated test programs bear a similar license, which is reproduced below:

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*******************************************************************************
**     Using libjpeg-turbo       
*******************************************************************************

libjpeg-turbo includes two APIs that can be used to compress and decompress
JPEG images:

TurboJPEG API: This API provides an easy-to-use interface for compressing and decompressing JPEG images in memory. It also provides some functionality that would not be straightforward to achieve using the underlying libjpeg API, such as generating planar YUV images and performing multiple simultaneous lossless transforms on an image. The Java interface for libjpeg-turbo is written on top of the TurboJPEG API.

libjpeg API: This is the de facto industry-standard API for compressing and decompressing JPEG images. It is more difficult to use than the TurboJPEG API but also more powerful. The libjpeg API implementation in libjpeg-turbo is both API/ABI-compatible and mathematically compatible with libjpeg v6b. It can also optionally be configured to be API/ABI-compatible with libjpeg v7 and v8 (see below.)

There is no significant performance advantage to either API when both are used to perform similar operations.

Installation Directory

This document assumes that libjpeg-turbo will be installed in the default directory (/opt/libjpeg-turbo on Un*x and Mac systems and c:\libjpeg-turbo[-gcc][64] on Windows systems. If your installation of libjpeg-turbo resides in a different directory, then adjust the instructions accordingly.

Replacing libjpeg at Run Time

Un*x

If a Un*x application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by manipulating LD_LIBRARY_PATH. For instance:

[Using libjpeg]
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real 0m0.392s
user 0m0.074s
sys 0m0.020s

[Using libjpeg-turbo]
> export LD_LIBRARY_PATH=/opt/libjpeg-turbo/{lib}:$LD_LIBRARY_PATH
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real  0m0.109s
user  0m0.029s
sys  0m0.010s

({lib} = lib32 or lib64, depending on whether you wish to use the 32-bit or the
64-bit version of libjpeg-turbo.)

System administrators can also replace the libjpeg symlinks in /usr/lib* with
links to the libjpeg-turbo dynamic library located in /opt/libjpeg-turbo/{lib}.
This will effectively accelerate every application that uses the libjpeg
dynamic library on the system.

Windows
-------

If a Windows application is dynamically linked with libjpeg, then you can
replace libjpeg with libjpeg-turbo at run time by backing up the application's
copy of jpeg62.dll, jpeg7.dll, or jpeg8.dll (assuming the application has its
own local copy of this library) and copying the corresponding DLL from
libjpeg-turbo into the application's install directory. The official
libjpeg-turbo binary packages only provide jpeg62.dll. If the application uses
jpeg7.dll or jpeg8.dll instead, then it will be necessary to build
libjpeg-turbo from source (see "libjpeg v7 and v8 API/ABI Emulation" below.)

The following information is specific to the official libjpeg-turbo binary
packages for Visual C++:

-- jpeg62.dll requires the Visual C++ 2008 C run-time DLL (msvcr90.dll).
msvcr90.dll ships with more recent versions of Windows, but users of older
Windows releases can obtain it from the Visual C++ 2008 Redistributable
Package, which is available as a free download from Microsoft's web site.

-- Features of the libjpeg API that require passing a C run-time structure,
such as a file handle, from an application to the library will probably not
work with jpeg62.dll, unless the application is also built to use the Visual
C++ 2008 C run-time DLL. In particular, this affects jpeg_stdio_dest() and
jpeg_stdio_src().

Mac
---

Mac applications typically embed their own copies of the libjpeg dylib inside
the (hidden) application bundle, so it is not possible to globally replace
libjpeg on OS X systems. Replacing the application's version of the libjpeg
dylib would generally involve copying libjpeg.*.dylib from libjpeg-turbo into
the appropriate place in the application bundle and using install_name_tool to
repoint the libjpeg-turbo dylib to its new directory. This requires an
advanced knowledge of OS X and would not survive an upgrade or a re-install of the application. Thus, it is not recommended for most users.

========================================
Using libjpeg-turbo in Your Own Programs
========================================

For the most part, libjpeg-turbo should work identically to libjpeg, so in most cases, an application can be built against libjpeg and then run against libjpeg-turbo. On Un*x systems and Cygwin, you can build against libjpeg-turbo instead of libjpeg by setting

CPATH=/opt/libjpeg-turbo/include
and
LIBRARY_PATH=/opt/libjpeg-turbo/{lib}

({lib} = lib32 or lib64, depending on whether you are building a 32-bit or a 64-bit application.)

If using MinGW, then set

CPATH=/c/libjpeg-turbo-gcc[64]/include
and
LIBRARY_PATH=/c/libjpeg-turbo-gcc[64]/lib

Building against libjpeg-turbo is useful, for instance, if you want to build an application that leverages the libjpeg-turbo colorspace extensions (see below.) On Un*x systems, you would still need to manipulate LD_LIBRARY_PATH or create appropriate symlinks to use libjpeg-turbo at run time. On such systems, you can pass -R /opt/libjpeg-turbo/{lib} to the linker to force the use of libjpeg-turbo at run time rather than libjpeg (also useful if you want to leverage the colorspace extensions), or you can link against the libjpeg-turbo static library.

To force a Un*x or MinGW application to link against the static version of libjpeg-turbo, you can use the following linker options:

-Wl,-Bstatic -ljpeg -Wl,-Bdynamic

On OS X, simply add /opt/libjpeg-turbo/lib/libjpeg.a to the linker command line.

To build Visual C++ applications using libjpeg-turbo, add c:\libjpeg-turbo[64]include to the system or user INCLUDE environment variable and c:\libjpeg-turbo[64]\lib to the system or user LIB environment variable, and then link against either jpeg.lib (to use the DLL version of libjpeg-turbo) or jpeg-static.lib (to use the static version of libjpeg-turbo.)
Colorsce Extension

Libjpeg-turbo includes extensions that allow JPEG images to be compressed directly from (and decompressed directly to) buffers that use BGR, BGRX, RGBX, XBGR, and XRGB pixel ordering. This is implemented with ten new colorspace constants:

- JCS_EXT_RGB  /* red/green/blue */
- JCS_EXT_RGBX /* red/green/blue/x */
- JCS_EXT_BGR  /* blue/green/red */
- JCS_EXT_BGRX /* blue/green/red/x */
- JCS_EXT_XBGR /* x/blue/green/red */
- JCS_EXT_XRGB /* x/red/green/blue */
- JCS_EXT_RGBA /* red/green/blue/alpha */
- JCS_EXT_BGRA /* blue/green/red/alpha */
- JCS_EXT_ABGR /* alpha/blue/green/red */
- JCS_EXT_ARGB /* alpha/red/green/blue */

Setting cinfo.in_color_space (compression) or cinfo.out_color_space (decompression) to one of these values will cause libjpeg-turbo to read the red, green, and blue values from (or write them to) the appropriate position in the pixel when compressing from/decompressing to an RGB buffer.

Your application can check for the existence of these extensions at compile time with:

```
#ifndef JCS_EXTENSIONS
```

At run time, attempting to use these extensions with a libjpeg implementation that does not support them will result in a "Bogus input colorspace" error. Applications can trap this error in order to test whether run-time support is available for the colorspace extensions.

When using the RGBX, BGRX, XBGR, and XRGB colorspaces during decompression, the X byte is undefined, and in order to ensure the best performance, libjpeg-turbo can set that byte to whatever value it wishes. If an application expects the X byte to be used as an alpha channel, then it should specify JCS_EXT_RGBA, JCS_EXT_BGRA, JCS_EXT_ABGR, or JCS_EXT_ARGB. When these colorspace constants are used, the X byte is guaranteed to be 0xFF, which is interpreted as opaque.

Your application can check for the existence of the alpha channel colorspace extensions at compile time with:

```
#ifndef JCS_ALPHA_EXTENSIONS
```

Jcstest.c, located in the libjpeg-turbo source tree, demonstrates how to check
for the existence of the colorspace extensions at compile time and run time.

===================================
libjpeg v7 and v8 API/ABI Emulation
===================================

With libjpeg v7 and v8, new features were added that necessitated extending the compression and decompression structures. Unfortunately, due to the exposed nature of those structures, extending them also necessitated breaking backward ABI compatibility with previous libjpeg releases. Thus, programs that were built to use libjpeg v7 or v8 did not work with libjpeg-turbo, since it is based on the libjpeg v6b code base. Although libjpeg v7 and v8 are still not as widely used as v6b, enough programs (including a few Linux distros) made the switch that there was a demand to emulate the libjpeg v7 and v8 ABIs in libjpeg-turbo. It should be noted, however, that this feature was added primarily so that applications that had already been compiled to use libjpeg v7+ could take advantage of accelerated baseline JPEG encoding/decoding without recompiling. libjpeg-turbo does not claim to support all of the libjpeg v7+ features, nor to produce identical output to libjpeg v7+ in all cases (see below.)

By passing an argument of --with-jpeg7 or --with-jpeg8 to configure, or an argument of -DWITH_JPEG7=1 or -DWITH_JPEG8=1 to cmake, you can build a version of libjpeg-turbo that emulates the libjpeg v7 or v8 ABI, so that programs that are built against libjpeg v7 or v8 can be run with libjpeg-turbo. The following section describes which libjpeg v7+ features are supported and which aren't.

Support for libjpeg v7 and v8 Features:
=======================================

Fully supported:

-- libjpeg: IDCT scaling extensions in decompressor
   libjpeg-turbo supports IDCT scaling with scaling factors of 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2/1 (only 1/4 and 1/2 are SIMD-accelerated.)

-- libjpeg: arithmetic coding

-- libjpeg: In-memory source and destination managers
   See notes below.

-- cjpeg: Separate quality settings for luminance and chrominance
   Note that the libjpeg v7+ API was extended to accommodate this feature only for convenience purposes. It has always been possible to implement this feature with libjpeg v6b (see rdswitch.c for an example.)
-- cjpeg: 32-bit BMP support

-- cjpeg: -rgb option

-- jpegtran: lossless cropping

-- jpegtran: -perfect option

-- jpegtran: forcing width/height when performing lossless crop

-- rdjpgcom: -raw option

-- rdjpgcom: locale awareness

Not supported:

NOTE: As of this writing, extensive research has been conducted into the usefulness of DCT scaling as a means of data reduction and SmartScale as a means of quality improvement. The reader is invited to peruse the research at http://www.libjpeg-turbo.org/About/SmartScale and draw his/her own conclusions, but it is the general belief of our project that these features have not demonstrated sufficient usefulness to justify inclusion in libjpeg-turbo.

-- libjpeg: DCT scaling in compressor
cinfo.scale_num and cinfo.scale_denom are silently ignored.
There is no technical reason why DCT scaling could not be supported when emulating the libjpeg v7+ API/ABI, but without the SmartScale extension (see below), only scaling factors of 1/2, 8/15, 4/7, 8/13, 2/3, 8/11, 4/5, and 8/9 would be available, which is of limited usefulness.

-- libjpeg: SmartScale
cinfo.block_size is silently ignored.
SmartScale is an extension to the JPEG format that allows for DCT block sizes other than 8x8. Providing support for this new format would be feasible (particularly without full acceleration.) However, until/unless the format becomes either an official industry standard or, at minimum, an accepted solution in the community, we are hesitant to implement it, as there is no sense of whether or how it might change in the future. It is our belief that SmartScale has not demonstrated sufficient usefulness as a lossless format nor as a means of quality enhancement, and thus, our primary interest in providing this feature would be as a means of supporting additional DCT scaling factors.

-- libjpeg: Fancy downsampling in compressor
cinfo.do_fancy_downsampling is silently ignored.
This requires the DCT scaling feature, which is not supported.
-- jpegtran: Scaling
   This requires both the DCT scaling and SmartScale features, which are not supported.

-- Lossless RGB JPEG files
   This requires the SmartScale feature, which is not supported.

What About libjpeg v9?
------------------------

libjpeg v9 introduced yet another field to the JPEG compression structure (color_transform), thus making the ABI backward incompatible with that of libjpeg v8. This new field was introduced solely for the purpose of supporting lossless SmartScale encoding. Further, there was actually no reason to extend the API in this manner, as the color transform could have just as easily been activated by way of a new JPEG colorspace constant, thus preserving backward ABI compatibility.

Our research (see link above) has shown that lossless SmartScale does not generally accomplish anything that can't already be accomplished better with existing, standard lossless formats. Thus, at this time, it is our belief that there is not sufficient technical justification for software to upgrade from libjpeg v8 to libjpeg v9, and therefore, not sufficient technical justification for us to emulate the libjpeg v9 ABI.

In-Memory Source/Destination Managers
=======================================

By default, libjpeg-turbo 1.3 and later includes the jpeg_mem_src() and jpeg_mem_dest() functions, even when not emulating the libjpeg v8 API/ABI. Previously, it was necessary to build libjpeg-turbo from source with libjpeg v8 API/ABI emulation in order to use the in-memory source/destination managers, but several projects requested that those functions be included when emulating the libjpeg v6b API/ABI as well. This allows the use of those functions by programs that need them without breaking ABI compatibility for programs that don’t, and it allows those functions to be provided in the “official” libjpeg-turbo binaries.

Those who are concerned about maintaining strict conformance with the libjpeg v6b or v7 API can pass an argument of --without-mem-srcdst to configure or an argument of -DWITH_MEM_SRCDST=0 to CMake prior to building libjpeg-turbo. This will restore the pre-1.3 behavior, in which jpeg_mem_src() and jpeg_mem_dest() are only included when emulating the libjpeg v8 API/ABI.

On Un*x systems, including the in-memory source/destination managers changes the dynamic library version from 62.0.0 to 62.1.0 if using libjpeg v6b API/ABI emulation and from 7.0.0 to 7.1.0 if using libjpeg v7 API/ABI emulation.
Note that, on most Unix systems, the dynamic linker will not look for a function in a library until that function is actually used. Thus, if a program is built against libjpeg-turbo 1.3+ and uses jpeg_mem_src() or jpeg_mem_dest(), that program will not fail if run against an older version of libjpeg-turbo or against libjpeg v7- until the program actually tries to call jpeg_mem_src() or jpeg_mem_dest(). Such is not the case on Windows. If a program is built against the libjpeg-turbo 1.3+ DLL and uses jpeg_mem_src() or jpeg_mem_dest(), then it must use the libjpeg-turbo 1.3+ DLL at run time.

Both cjpeg and djpeg have been extended to allow testing the in-memory source/destination manager functions. See their respective man pages for more details.

*******************************************************************************
**  Mathematical Compatibility
*******************************************************************************

For the most part, libjpeg-turbo should produce identical output to libjpeg v6b. The one exception to this is when using the floating point DCT/IDCT, in which case the outputs of libjpeg v6b and libjpeg-turbo are not guaranteed to be identical (the accuracy of the floating point DCT/IDCT is constant when using libjpeg-turbo's SIMD extensions, but otherwise, it can depend heavily on the compiler and compiler settings.)

While libjpeg-turbo does emulate the libjpeg v8 API/ABI, under the hood, it is still using the same algorithms as libjpeg v6b, so there are several specific cases in which libjpeg-turbo cannot be expected to produce the same output as libjpeg v8:

-- When decompressing using scaling factors of 1/2 and 1/4, because libjpeg v8 implements those scaling algorithms a bit differently than libjpeg v6b does, and libjpeg-turbo's SIMD extensions are based on the libjpeg v6b behavior.

-- When using chrominance subsampling, because libjpeg v8 implements this with its DCT/IDCT scaling algorithms rather than with a separate downsampling/upsampling algorithm.

-- When using the floating point IDCT, for the reasons stated above and also because the floating point IDCT algorithm was modified in libjpeg v8a to improve accuracy.

-- When decompressing using a scaling factor > 1 and merged (AKA "non-fancy" or "non-smooth") chrominance upsampling, because libjpeg v8 does not support merged upsampling with scaling factors > 1.
** Performance Pitfalls

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Restart Markers

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The optimized Huffman decoder in libjpeg-turbo does not handle restart markers in a way that makes the rest of the libjpeg infrastructure happy, so it is necessary to use the slow Huffman decoder when decompressing a JPEG image that has restart markers. This can cause the decompression performance to drop by as much as 20%, but the performance will still be much greater than that of libjpeg. Many consumer packages, such as PhotoShop, use restart markers when generating JPEG images, so images generated by those programs will experience this issue.

-----------------------------

Fast Integer Forward DCT at High Quality Levels

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The algorithm used by the SIMD-accelerated quantization function cannot produce correct results whenever the fast integer forward DCT is used along with a JPEG quality of 98-100. Thus, libjpeg-turbo must use the non-SIMD quantization function in those cases. This causes performance to drop by as much as 40%. It is therefore strongly advised that you use the slow integer forward DCT whenever encoding images with a JPEG quality of 98 or higher.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/README-turbo.txt

No license file was found, but licenses were detected in source scan.

/*
 * jdtrans.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains library routines for transcoding decompression,
 * that is, reading raw DCT coefficient arrays from an input JPEG file.
 * The routines in jdapimin.c will also be needed by a transcoder.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
/*
 * jdphuff.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy decoding routines for progressive JPEG.
 *
 * Much of the complexity here has to do with supporting input suspension.
 * If the data source module demands suspension, we want to be able to back
 * up to the start of the current MCU. To do this, we copy state variables
 * into local working storage, and update them back to the permanent
 * storage only upon successful completion of an MCU.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdphuff.c

No license file was found, but licenses were detected in source scan.

/*
 * jcmaster.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2003-2010 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains master control logic for the JPEG compressor.
 * These routines are concerned with parameter validation, initial setup,
 * and inter-pass control (determining the number of passes and the work
 * to be done in each pass).
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcmaster.c

No license file was found, but licenses were detected in source scan.

/*
 * wrbmp.c
 */
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in Microsoft "BMP"
* format (MS Windows 3.x and OS/2 1.x flavors).
* Either 8-bit colormapped or 24-bit full-color format can be written.
* No compression is supported.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* This code contributed by James Arthur Boucher.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrbmp.c
No license file was found, but licenses were detected in source scan.

/*
 * jcapistd.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the compression half
 * of the JPEG library. These are the "standard" API routines that are
 * used in the normal full-compression case. They are not used by a
 * transcoding-only application. Note that if an application links in
 * jpeg_start_compress, it will end up linking in the entire compressor.
 * We thus must separate this file from jcapimin.c to avoid linking the
 * whole compression library into a transcoder.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcapistd.c
No license file was found, but licenses were detected in source scan.

/ *
 * transupp.h
 *
 * Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
* This file contains declarations for image transformation routines and
* other utility code used by the jpegtran sample application. These are
* NOT part of the core JPEG library. But we keep these routines separate
* from jpegtran.c to ease the task of maintaining jpegtran-like programs
* that have other user interfaces.
*
* NOTE: all the routines declared here have very specific requirements
* about when they are to be executed during the reading and writing of the
* source and destination files. See the comments in transupp.c, or see
* jpegtran.c for an example of correct usage.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/transupp.h
No license file was found, but licenses were detected in source scan.

/*
* jaricom.c
*
* Developed 1997-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains probability estimation tables for common use in
* arithmetic entropy encoding and decoding routines.
*
* This data represents Table D.2 in the JPEG spec (ISO/IEC IS 10918-1
* and CCITT Recommendation ITU-T T.81) and Table 24 in the JBIG spec
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jaricom.c
No license file was found, but licenses were detected in source scan.

/*
* jpegcomp.h
*
* Copyright (C) 2010, D. R. Commander
* For conditions of distribution and use, see the accompanying README file.
*
* JPEG compatibility macros
* These declarations are considered internal to the JPEG library; most
* applications using the library shouldn't need to include this file.
*/
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdatasrc-tj.c
No license file was found, but licenses were detected in source scan.

/*
 * jdatasrc-tj.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains decompression data source routines for the case of
 * reading JPEG data from memory or from a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different source manager.
 * IMPORTANT: we assume that fread() will correctly transcribe an array of
 * JOCTETs from 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jccolext.c
No license file was found, but licenses were detected in source scan.

/*
 * jccolext.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009-2012, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains input colorspace conversion routines.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jccolext.c
No license file was found, but licenses were detected in source scan.

/*
* jdatadst.c
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2009-2012 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains compression data destination routines for the case of
* emitting JPEG data to memory or to a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different destination manager.
* IMPORTANT: we assume that fwrite() will correctly transcribe an array of
* JOCTETs into 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdatadst.c
No license file was found, but licenses were detected in source scan.

/*
* cerror.h
* This file defines the error and message codes for the cjpeg/djpeg
* applications. These strings are not needed as part of the JPEG library
* proper.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/cerror.h
No license file was found, but licenses were detected in source scan.

1.2.90 (1.3 beta1)
_____________________

[1] Added support for additional scaling factors (3/8, 5/8, 3/4, 7/8, 9/8, 5/4,
11/8, 3/2, 13/8, 7/4, 15/8, and 2) when decompressing. Note that the IDCT will
not be SIMD-accelerated when using any of these new scaling factors.

[2] The TurboJPEG dynamic library is now versioned. It was not strictly necessary to do so, because TurboJPEG uses versioned symbols, and if a function changes in an ABI-incompatible way, that function is renamed and a legacy function is provided to maintain backward compatibility. However, certain Linux distro maintainers will blindly reject any library that is not versioned, so this was an attempt to make them happy.

[3] Extended the TurboJPEG Java API so that it can be used to compress a JPEG image from and decompress a JPEG image to an arbitrary position in a large image buffer.

[4] The tjDecompressToYUV() function now supports the TJFLAG_FASTDCT flag.

[5] The 32-bit supplementary package for amd64 Debian systems now provides symlinks in /usr/lib/i386-linux-gnu for the TurboJPEG libraries in /usr/lib32. This allows those libraries to be used on MultiArch-compatible systems (such as Ubuntu 11 and later) without setting the linker path.

[6] The TurboJPEG Java wrapper should now find the JNI library on Mac systems without having to pass -Djava.library.path=/usr/lib to java.

[7] TJBench has been ported to Java to provide a convenient way of validating the performance of the TurboJPEG Java API. It can be run with 'java -cp turbojpeg.jar TJBench'.

[8] cjpeg can now be used to generate JPEG files with the RGB colorspace (feature ported from jpeg-8d.)

[9] The width and height in the -crop argument passed to jpegtran can now be suffixed with "f" to indicate that, when the upper left corner of the cropping region is automatically moved to the nearest iMCU boundary, the bottom right corner should be moved by the same amount. In other words, this feature causes jpegtran to strictly honor the specified width/height rather than the specified bottom right corner (feature ported from jpeg-8d.)

[10] JPEG files using the RGB colorspace can now be decompressed into grayscale images (feature ported from jpeg-8d.)

[11] Fixed a regression caused by 1.2.1[7] whereby the build would fail with multiple "Mismatch in operand sizes" errors when attempting to build the x86 SIMD code with NASM 0.98.

[12] The in-memory source/destination managers (jpeg_mem_src() and jpeg_mem_dest()) are now included by default when building libjpeg-turbo with libjpeg v6b or v7 emulation, so that programs can take advantage of these functions without requiring the use of the backward-incompatible libjpeg v8
ABI. The "age number" of the libjpeg-turbo library on Un*x systems has been incremented by 1 to reflect this. You can disable this feature with a configure/CMake switch in order to retain strict API/ABI compatibility with the libjpeg v6b or v7 API/ABI (or with previous versions of libjpeg-turbo.) See README-turbo.txt for more details.

[13] Added ARM v7s architecture to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build applications that leverage the faster CPUs in the iPhone 5 and iPad 4.

1.2.1 =====

[1] Creating or decoding a JPEG file that uses the RGB colorspace should now properly work when the input or output colorspace is one of the libjpeg-turbo colorspace extensions.

[2] When libjpeg-turbo was built without SIMD support and merged (non-fancy) upsampling was used along with an alpha-enabled colorspace during decompression, the unused byte of the decompressed pixels was not being set to 0xFF. This has been fixed. TJUnitTest has also been extended to test for the correct behavior of the colorspace extensions when merged upsampling is used.

[3] Fixed a bug whereby the libjpeg-turbo SSE2 SIMD code would not preserve the upper 64 bits of xmm6 and xmm7 on Win64 platforms, which violated the Win64 calling conventions.

[4] Fixed a regression caused by 1.2.0[6] whereby decompressing corrupt JPEG images (specifically, images in which the component count was erroneously set to a large value) would cause libjpeg-turbo to segfault.

[5] Worked around a severe performance issue with "Bobcat" (AMD Embedded APU) processors. The MASKMOVDQU instruction, which was used by the libjpeg-turbo SSE2 SIMD code, is apparently implemented in microcode on AMD processors, and it is painfully slow on Bobcat processors in particular. Eliminating the use of this instruction improved performance by an order of magnitude on Bobcat processors and by a small amount (typically 5%) on AMD desktop processors.

[6] Added SIMD acceleration for performing 4:2:2 upsampling on NEON-capable ARM platforms. This speeds up the decompression of 4:2:2 JPEGs by 20-25% on such platforms.

[7] Fixed a regression caused by 1.2.0[2] whereby, on Linux/x86 platforms running the 32-bit SSE2 SIMD code in libjpeg-turbo, decompressing a 4:2:0 or 4:2:2 JPEG image into a 32-bit (RGBX, BGRX, etc.) buffer without using fancy upsampling would produce several incorrect columns of pixels at the right-hand side of the output image if each row in the output image was not evenly
divisible by 16 bytes.

[8] Fixed an issue whereby attempting to build the SIMD extensions with Xcode 4.3 on OS X platforms would cause NASM to return numerous errors of the form "'%define' expects a macro identifier".

[9] Added flags to the TurboJPEG API that allow the caller to force the use of either the fast or the accurate DCT/IDCT algorithms in the underlying codec.

1.2.0
=====

[1] Fixed build issue with YASM on Unix systems (the libjpeg-turbo build system was not adding the current directory to the assembler include path, so YASM was not able to find jsimdcfg.inc.)

[2] Fixed out-of-bounds read in SSE2 SIMD code that occurred when decompressing a JPEG image to a bitmap buffer whose size was not a multiple of 16 bytes. This was more of an annoyance than an actual bug, since it did not cause any actual run-time problems, but the issue showed up when running libjpeg-turbo in valgrind. See http://crbug.com/72399 for more information.

[3] Added a compile-time macro (LIBJPEG_TURBO_VERSION) that can be used to check the version of libjpeg-turbo against which an application was compiled.

[4] Added new RGBA/BGRA/ABGR/ARGB colorspace extension constants (libjpeg API) and pixel formats (TurboJPEG API), which allow applications to specify that, when decompressing to a 4-component RGB buffer, the unused byte should be set to 0xFF so that it can be interpreted as an opaque alpha channel.

[5] Fixed regression issue whereby DevIL failed to build against libjpeg-turbo because libjpeg-turbo's distributed version of jconfig.h contained an INLINE macro, which conflicted with a similar macro in DevIL. This macro is used only internally when building libjpeg-turbo, so it was moved into config.h.

[6] libjpeg-turbo will now correctly decompress erroneous CMYK/YCCK JPEGs whose K component is assigned a component ID of 1 instead of 4. Although these files are in violation of the spec, other JPEG implementations handle them correctly.

[7] Added ARM v6 and ARM v7 architectures to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build both OS X and iOS applications.

1.1.90 (1.2 beta1)
================
[1] Added a Java wrapper for the TurboJPEG API. See java/README for more details.

[2] The TurboJPEG API can now be used to scale down images during decompression.

[3] Added SIMD routines for RGB-to-grayscale color conversion, which significantly improves the performance of grayscale JPEG compression from an RGB source image.

[4] Improved the performance of the C color conversion routines, which are used on platforms for which SIMD acceleration is not available.

[5] Added a function to the TurboJPEG API that performs lossless transforms. This function is implemented using the same back end as jpegtran, but it performs transcoding entirely in memory and allows multiple transforms and/or crop operations to be batched together, so the source coefficients only need to be read once. This is useful when generating image tiles from a single source JPEG.

[6] Added tests for the new TurboJPEG scaled decompression and lossless transform features to tjbench (the TurboJPEG benchmark, formerly called "jpgtest").

[7] Added support for 4:4:0 (transposed 4:2:2) subsampling in TurboJPEG, which was necessary in order for it to read 4:2:2 JPEG files that had been losslessly transposed or rotated 90 degrees.

[8] All legacy VirtualGL code has been re-factored, and this has allowed libjpeg-turbo, in its entirety, to be re-licensed under a BSD-style license.

[9] libjpeg-turbo can now be built with YASM.

[10] Added SIMD acceleration for ARM Linux and iOS platforms that support NEON instructions.

[11] Refactored the TurboJPEG C API and documented it using Doxygen. The TurboJPEG 1.2 API uses pixel formats to define the size and component order of the uncompressed source/destination images, and it includes a more efficient version of TJBUFSIZE() that computes a worst-case JPEG size based on the level of chrominance subsampling. The refactored implementation of the TurboJPEG API now uses the libjpeg memory source and destination managers, which allows the TurboJPEG compressor to grow the JPEG buffer as necessary.

[12] Eliminated errors in the output of jpegtran on Windows that occurred when the application was invoked using I/O redirection (jpegtran <input.jpg >output.jpg).
13. The inclusion of libjpeg v7 and v8 emulation as well as arithmetic coding support in libjpeg-turbo v1.1.0 introduced several new error constants in jerror.h, and these were mistakenly enabled for all emulation modes, causing the error enum in libjpeg-turbo to sometimes have different values than the same enum in libjpeg. This represents an ABI incompatibility, and it caused problems with rare applications that took specific action based on a particular error value. The fix was to include the new error constants conditionally based on whether libjpeg v7 or v8 emulation was enabled.

14. Fixed an issue whereby Windows applications that used libjpeg-turbo would fail to compile if the Windows system headers were included before jpeglib.h. This issue was caused by a conflict in the definition of the INT32 type.

15. Fixed 32-bit supplementary package for amd64 Debian systems, which was broken by enhancements to the packaging system in 1.1.

16. When decompressing a JPEG image using an output colorspace of JCS_EXT_RGBX, JCS_EXT_BGRX, JCS_EXT_XBGR, or JCS_EXT_XRGB, libjpeg-turbo will now set the unused byte to 0xFF, which allows applications to interpret that byte as an alpha channel (0xFF = opaque).

1.1.1
=====

1. Fixed a 1-pixel error in row 0, column 21 of the luminance plane generated by tjEncodeYUV().

2. libjpeg-turbo's accelerated Huffman decoder previously ignored unexpected markers found in the middle of the JPEG data stream during decompression. It will now hand off decoding of a particular block to the unaccelerated Huffman decoder if an unexpected marker is found, so that the unaccelerated Huffman decoder can generate an appropriate warning.

3. Older versions of MinGW64 prefixed symbol names with underscores by default, which differed from the behavior of 64-bit Visual C++. MinGW64 1.0 has adopted the behavior of 64-bit Visual C++ as the default, so to accommodate this, the libjpeg-turbo SIMD function names are no longer prefixed with an underscore when building with MinGW64. This means that, when building libjpeg-turbo with older versions of MinGW64, you will now have to add -fno-leading-underscore to the CFLAGS.

4. Fixed a regression bug in the NSIS script that caused the Windows installer build to fail when using the Visual Studio IDE.

5. Fixed a bug in jpeg_read_coefficients() whereby it would not initialize cinfo->image_width and cinfo->image_height if libjpeg v7 or v8 emulation was
enabled. This specifically caused the jpegoptim program to fail if it was linked against a version of libjpeg-turbo that was built with libjpeg v7 or v8 emulation.


[7] Eliminated errors in the output of cjpeg on Windows that occurred when the application was invoked using I/O redirection (cjpeg <inputfile >output.jpg).

1.1.0
=====

[1] The algorithm used by the SIMD quantization function cannot produce correct results when the JPEG quality is >= 98 and the fast integer forward DCT is used. Thus, the non-SIMD quantization function is now used for those cases, and libjpeg-turbo should now produce identical output to libjpeg v6b in all cases.

[2] Despite the above, the fast integer forward DCT still degrades somewhat for JPEG qualities greater than 95, so the TurboJPEG wrapper will now automatically use the slow integer forward DCT when generating JPEG images of quality 96 or greater. This reduces compression performance by as much as 15% for these high-quality images but is necessary to ensure that the images are perceptually lossless. It also ensures that the library can avoid the performance pitfall created by [1].

[3] Ported jpgtest.cxx to pure C to avoid the need for a C++ compiler.


[5] The Windows distribution packages now include the libjpeg run-time programs (cjpeg, etc.)

[6] All packages now include jpgtest.


[8] Added two new TurboJPEG API functions, tjEncodeYUV() and tjDecompressToYUV(), to replace the somewhat hackish TJ_YUV flag.

1.0.90 (1.1 beta1)
=================

[1] Added emulation of the libjpeg v7 and v8 APIs and ABIs. See
README-turbo.txt for more details. This feature was sponsored by CamTrace SAS.


[3] Grayscale bitmaps can now be compressed from/decompressed to using the TurboJPEG API.

[4] jpg test can now be used to test decompression performance with existing JPEG images.

[5] If the default install prefix (/opt/libjpeg-turbo) is used, then ‘make install’ now creates /opt/libjpeg-turbo/lib32 and /opt/libjpeg-turbo/lib64 sym links to duplicate the behavior of the binary packages.

[6] All symbols in the libjpeg-turbo dynamic library are now versioned, even when the library is built with libjpeg v6b emulation.

[7] Added arithmetic encoding and decoding support (can be disabled with configure or CMake options)

[8] Added a TJ_YUV flag to the TurboJPEG API, which causes both the compressor and decompressor to output planar YUV images.

[9] Added an extended version of tjDecompressHeader() to the TurboJPEG API, which allows the caller to determine the type of subsampling used in a JPEG image.

[10] Added further protections against invalid Huffman codes.

1.0.1
======

[1] The Huffman decoder will now handle erroneous Huffman codes (for instance, from a corrupt JPEG image.) Previously, these would cause libjpeg-turbo to crash under certain circumstances.

[2] Fixed typo in SIMD dispatch routines that was causing 4:2:2 upsampling to be used instead of 4:2:0 when decompressing JPEG images using SSE2 code.

[3] configure script will now automatically determine whether the INCOMPLETE_TYPES_BROKEN macro should be defined.

1.0.0
======
[1] 2983700: Further FreeBSD build tweaks (no longer necessary to specify --host when configuring on a 64-bit system)

[2] Created symlinks in the Unix/Linux packages so that the TurboJPEG include file can always be found in /opt/libjpeg-turbo/include, the 32-bit static libraries can always be found in /opt/libjpeg-turbo/lib32, and the 64-bit static libraries can always be found in /opt/libjpeg-turbo/lib64.

[3] The Unix/Linux distribution packages now include the libjpeg run-time programs (cjpeg, etc.) and man pages.


[7] No longer necessary to specify --without-simd on non-x86 architectures, and unit tests now work on those architectures.

0.0.93
========

[1] 2982659, Fixed x86-64 build on FreeBSD systems

[2] 2988188: Added support for Windows 64-bit systems

0.0.91
========

[1] Added documentation to .deb packages

[2] 2968313: Fixed data corruption issues when decompressing large JPEG images and/or using buffered I/O with the libjpeg-turbo decompressor

0.0.90
========

Initial release

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/ChangeLog.txt
No license file was found, but licenses were detected in source scan.

/*
 * jsimd_i386.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 * This file contains the interface between the "normal" portions
 * of the library and the SIMD implementations when running on a
 * 32-bit x86 architecture.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimd_i386.c

No license file was found, but licenses were detected in source scan.

/*
 * jdmainct.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for decompression.
 * The main buffer lies between the JPEG decompressor proper and the
 * post-processor; it holds downsampled data in the JPEG colorspace.
 * Note that this code is bypassed in raw-data mode, since the application
 * supplies the equivalent of the main buffer in that case.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdmainct.c

No license file was found, but licenses were detected in source scan.

/*
 * jinclude.h
 */
* Copyright (C) 1991-1994, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

* This file exists to provide a single place to fix any problems with
  including the wrong system include files. (Common problems are taken
  care of by the standard jconfig symbols, but on really weird systems
  you may have to edit this file.)
*
* NOTE: this file is NOT intended to be included by applications using the
  JPEG library. Most applications need only include jpeglib.h.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
  archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jinclude.h
No license file was found, but licenses were detected in source scan.

/*
* rdgif.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in GIF format.
*
******************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression,      *
* the ability to read GIF files has been removed from the IJG distribution. *
* Sorry about that.                                                        *
******************************************************************************
*
* We are required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
  archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdgif.c
No license file was found, but licenses were detected in source scan.

/*
* simd/jsimd.h
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB

Open Source Used In APIC-SE-BATMAN 2.1.1d 15635
* Copyright 2011 D. R. Commander
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
*
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimd.h
No license file was found, but licenses were detected in source scan.

/*
 * rdswitch.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to process some of cjpeg's more complicated
 * command-line switches. Switches processed here are:
 * -qtables fileRead quantization tables from text file
 * -scans fileRead scan script from text file
 * -quality N[,N,...]Set quality ratings
 * -qslots N[,N,...]Set component quantization table selectors
 * -sample HxV[,HxV,...]Set component sampling factors
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdswitch.c
No license file was found, but licenses were detected in source scan.

; jcolsamp.inc - private declarations for color conversion & up/downsampling
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
;
; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
;
; [TAB8]
; pseudo-resisters to make ordering of RGB configurable
;
%if RGB_RED == 0
%define mmA mm0
%define mmB mm1
%define xmmA xmm0
%define xmmB xmm1
%endif
%elif RGB_GREEN == 0
%define mmA mm2
%define mmB mm3
%define xmmA xmm2
%define xmmB xmm3
%endif
%elif RGB_BLUE == 0
%define mmA mm4
%define mmB mm5
%define xmmA xmm4
%define xmmB xmm5
%else
%define mmA mm6
%define mmB mm7
%define xmmA xmm6
%define xmmB xmm7
%endif

%if RGB_RED == 1
%define mmC mm0
%define mmD mm1
%define xmmC xmm0
%define xmmD xmm1
%endif
%elif RGB_GREEN == 1
%define mmC mm2
%define mmD mm3
%define xmmC xmm2
%define xmmD xmm3
%endif
%elif RGB_BLUE == 1
%define mmC mm4
%define mmD mm5
%define xmmC xmm4
%define xmmD xmm5
%else
%define mmC mm6
%define mmD mm7
%define xmmC xmm6
%define xmmD xmm7
%endif
%if RGB_RED == 2
%define mmE mm0
%define mmF mm1
%define xmmE xmm0
%define xmmF xmm1
%elif RGB_GREEN == 2
%define mmE mm2
%define mmF mm3
%define xmmE xmm2
%define xmmF xmm3
%elif RGB_BLUE == 2
%define mmE mm4
%define mmF mm5
%define xmmE xmm4
%define xmmF xmm5
%else
%define mmE mm6
%define mmF mm7
%define xmmE xmm6
%define xmmF xmm7
%endif

%if RGB_RED == 3
%define mmG mm0
%define mmH mm1
%define xmmG xmm0
%define xmmH xmm1
%elif RGB_GREEN == 3
%define mmG mm2
%define mmH mm3
%define xmmG xmm2
%define xmmH xmm3
%elif RGB_BLUE == 3
%define mmG mm4
%define mmH mm5
%define xmmG xmm4
%define xmmH xmm5
%else
%define mmG mm6
%define mmH mm7
%define xmmG xmm6
%define xmmH xmm7
%endif

; --------------------------------------------------------------------------

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcolsamp.inc

No license file was found, but licenses were detected in source scan.

/*
  * wrtarga.c
  *
  * Copyright (C) 1991-1996, Thomas G. Lane.
  * This file is part of the Independent JPEG Group's software.
  * For conditions of distribution and use, see the accompanying README file.
  *
  * This file contains routines to write output images in Targa format.
  *
  * These routines may need modification for non-Unix environments or
  * specialized applications. As they stand, they assume output to
  * an ordinary stdio stream.
  *
  * Based on code contributed by Lee Daniel Crocker.
  */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrtarga.c

No license file was found, but licenses were detected in source scan.

/*
  * wrgif.c
  *
  * Copyright (C) 1991-1997, Thomas G. Lane.
  * This file is part of the Independent JPEG Group's software.
  * For conditions of distribution and use, see the accompanying README file.
  *
  * This file contains routines to write output images in GIF format.
  *
  * ********************************************************************
  * NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
  * this code has been modified to output "uncompressed GIF" files.        *
  * There is no trace of the LZW algorithm in this file.                   *
  * ********************************************************************
  *
  * These routines may need modification for non-Unix environments or
  * specialized applications. As they stand, they assume output to
  * an ordinary stdio stream.
  */

/*
  * This code is loosely based on ppmtogif from the PBMPLUS distribution
  * of Feb. 1991. That file contains the following copyright notice:
  * Based on GIFENCODE by David Rowley <mgardi@watdsu.waterloo.edu>.
Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
Copyright (C) 1989 by Jef Poskanzer.
Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted, provided
that the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation. This software is provided "as is" without express or
implied warranty.

We are also required to state that
"The Graphics Interchange Format(c) is the Copyright property of
CompuServe Incorporated. GIF(sm) is a Service Mark property of
CompuServe Incorporated."
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrgif.c
No license file was found, but licenses were detected in source scan.

USING THE IJG JPEG LIBRARY

This file was part of the Independent JPEG Group's software:
Copyright (C) 1994-2011, Thomas G. Lane, Guido Vollbeding.
Modifications:
Copyright (C) 2010, D. R. Commander.
For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application program. Read it if you want to write a program that uses the library.

The file example.c provides heavily commented skeleton code for calling the JPEG library. Also see jpeglib.h (the include file to be used by application programs) for full details about data structures and function parameter lists. The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface presented by IJG version 4 and earlier versions. The old design had several inherent limitations, and it had accumulated a lot of cruft as we added features while trying to minimize application-interface changes. We have sacrificed backward compatibility in the version 5 rewrite, but we think the improvements justify this.

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You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read if and when you need them.

OVERVIEW
========

Functions provided by the library
---------------------------------

The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a scanline at a time, using a straightforward uncompressed image format. All details of color conversion and other preprocessing/postprocessing can be handled by the library.

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after
decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. The application indirectly selects use of this code by specifying the format in which it wishes to supply or receive image data. For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

A word about functions *not* provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:
* Hierarchical storage
* Lossless JPEG
* DNL marker
* Nonintegral subsampling ratios

We support both 8- and 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use both precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage
------------------------

The rough outline of a JPEG compression operation is:

Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression object
A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.

The image data to be compressed is supplied to jpeg_write_scanlines() from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application’s responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
Release the JPEG decompression object

This is comparable to the compression outline except that reading the datastream header is a separate step. This is helpful because information about the image's size, colorspace, etc is available when the application selects decompression parameters. For example, the application can choose an output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source manager, which typically will read the data from a file; but other behaviors can be obtained with a custom source manager. Decompressed data is delivered into in-memory buffers passed to jpeg_read_scanlines().

It is possible to abort an incomplete compression or decompression operation by calling jpeg_abort(); or, if you do not need to retain the JPEG object, simply release it by calling jpeg_destroy().

JPEG compression and decompression objects are two separate struct types. However, they share some common fields, and certain routines such as jpeg_destroy() can work on either type of object.

The JPEG library has no static variables: all state is in the compression or decompression object. Therefore it is possible to process multiple
compression and decompression operations concurrently, using multiple JPEG objects.

Both compression and decompression can be done in an incremental memory-to-memory fashion, if suitable source/destination managers are used. See the section on "I/O suspension" for more details.

BASIC LIBRARY USAGE
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Data formats
---------

Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel). PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE. A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call.
It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it’s simplest to process one scanline at a time.

For best results, source data values should have the precision specified by BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress data that’s only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 12. (See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i’th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (i.e., at most 256 colors for an 8-bit JPEG library).

Compression details
-------------------

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg_compress_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the application doesn’t control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you’ll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under "Error handling". For now we’ll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.
You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is:

```c
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```

jpeg_create_compress allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (e.g., a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```c
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
  fprintf(stderr, "can't open %s\n", filename);
  exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```

where the last line invokes the standard destination module.

**WARNING:** it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling jpeg_start_compress() and jpeg_finish_compress().
3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

- `image_width`: Width of image, in pixels
- `image_height`: Height of image, in pixels
- `input_components`: Number of color channels (samples per pixel)
- `in_color_space`: Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and `input_components` is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The `in_color_space` field must be assigned one of the `J_COLOR_SPACE` enum constants, typically `JCS_RGB` or `JCS_GRAYSCALE`.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling `jpeg_set_defaults()`, then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set `in_color_space` correctly before calling `jpeg_set_defaults()`, because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call `jpeg_start_compress()`. There's no harm in calling `jpeg_set_defaults()` more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

```c
    cinfo.image_width = Width; /* image width and height, in pixels */
    cinfo.image_height = Height;
    cinfo.input_components = 3; /* # of color components per pixel */
    cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

    jpeg_set_defaults(&cinfo);
    /* Make optional parameter settings here */
```

4. `jpeg_start_compress(...);`

After you have established the data destination and set all the necessary source image info and other parameters, call `jpeg_start_compress()` to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.
Typical code:

```
jpeg_start_compress(&cinfo, TRUE);
```

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.

Once you have called `jpeg_start_compress()`, you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. while (scan lines remain to be written)
```
jpeg_write_scanlines(...);
```

Now write all the required image data by calling `jpeg_write_scanlines()` one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else's, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application `cjpeg`.

The library maintains a count of the number of scanlines written so far in the `next_scanline` field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.next_scanline < cinfo.image_height)".

Code for this step depends heavily on the way that you store the source data. `example.c` shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

```
JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride; /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
```
jpeg_write_scanlines(cinfo, row_pointer, 1);
}

jpeg_write_scanlines() returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:
* If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
* If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal stdio destination manager will NOT cause this to happen.
In any case, the return value is the same as the change in the value of next_scanline.

6. jpeg_finish_compress(...);

After all the image data has been written, call jpeg_finish_compress() to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination.
jpeg_finish_compress() also releases working memory associated with the JPEG object.

Typical code:

jpeg_finish_compress(cinfo);

If using the stdio destination manager, don't forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, jpeg_finish_compress() will perform the additional passes using data buffered by the first pass. In this case jpeg_finish_compress() may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call jpeg_finish_compress() before writing the necessary total number of scanlines. If you wish to abort compression, call jpeg_abort() as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target. If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you
should call jpeg_set_defaults() to adjust for the new colorspace; and then you'll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling jpeg_destroy_compress(). This will free all subsidiary memory (regardless of the previous state of the object). Or you can call jpeg_destroy(), which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy() should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing it is your responsibility --- jpeg_destroy() won't. Ditto for the error handler structure.

Typical code:

jpeg_destroy_compress(&cinfo);

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call jpeg_destroy_compress() or jpeg_destroy() to release memory. This is legitimate at any point after calling jpeg_create_compress() --- in fact, it's safe even if jpeg_create_compress() fails.

* If you want to re-use the JPEG object, call jpeg_abort_compress(), or call jpeg_abort() which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. jpeg_abort() is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call term_destination(). (See "Compressed data handling", below, for more about that.)

jpeg_destroy() and jpeg_abort() are the only safe calls to make on a JPEG object that has reported an error by calling error_exit (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.
Decompression details
--------------------

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

   This is just like initialization for compression, as discussed above, except that the object is a "struct jpeg_decompress_struct" and you call jpeg_create_decompress(). Error handling is exactly the same.

   Typical code:

   ```c
   struct jpeg_decompress_struct cinfo;
   struct jpeg_error_mgr jerr;
   ...
   cinfo.err = jpeg_std_error(&jerr);
   jpeg_create_decompress(&cinfo);
   (Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)
   ```

2. Specify the source of the compressed data (eg, a file).

   As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

   If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

   ```c
   FILE * infile;
   ...
   if ((infile = fopen(filename, "rb")) == NULL) {
       fprintf(stderr, "can't open %s\n", filename);
       exit(1);
   }
   jpeg_stdio_src(&cinfo, infile);
   where the last line invokes the standard source module.
   ```

   WARNING: it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to
put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You may not change the data source between calling jpeg_read_header() and jpeg_finish_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg_read_header() to jpeg_finish_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.

3. Call jpeg_read_header() to obtain image info.

Typical code for this step is just

```c
jpeg_read_header(&cinfo, TRUE);
```

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if
* A suspending data source is used --- in that case jpeg_read_header() may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.
* Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call jpeg_destroy() when you are done with the JPEG object, or call jpeg_abort() to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.

jpeg_read_header() sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file.

If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.
Note that all default values are set by each call to jpeg_read_header(). If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.

5. jpeg_start_decompress(...);

Once the parameter values are satisfactory, call jpeg_start_decompress() to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

jpeg_start_decompress(&cinfo);

If you have requested a multi-pass operating mode, such as 2-pass color quantization, jpeg_start_decompress() will do everything needed before data output can begin. In this case jpeg_start_decompress() may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; jpeg_start_decompress() will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

- output_width: image width and height, as scaled
- output_height
- out_color_components: # of color components in out_color_space
- output_components: # of color components returned per pixel
- colormap: the selected colormap, if any
- actual_number_of_colors: number of entries in colormap

output_components is 1 (a colormap index) when quantizing colors; otherwise it equals out_color_components. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need output_width * output_components JSAMPLEs per scanline in your output buffer, and a total of output_height scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as djpeg does), then the manager's protocol requires that you request large buffers *before* calling jpeg_start_decompress(). This is a little tricky since the output_XXX fields are not normally valid then. You can make them valid by calling jpeg_calc_output_dimensions() after setting the
relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)
   jpeg_read_scanlines(...);

Now you can read the decompressed image data by calling jpeg_read_scanlines() one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); jpeg_read_scanlines() will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far in the output_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test should NOT be against image_height, unless you never use scaling. The image_height field is the height of the original unscaled image.) The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that jpeg_read_scanlines() reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that jpeg_read_scanlines() fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls jpeg_read_scanlines() repeatedly until the whole image has been read.

7. jpeg_finish_decompress(...);

After all the image data has been read, call jpeg_finish_decompress() to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

jpeg_finish_decompress(&cinfo);
If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call jpeg_finish_decompress() before reading the correct total number of scanlines. If you wish to abort decompression, call jpeg_abort() as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of destroying compression objects applies here too.

Typical code:

jpeg_destroy_decompress(&cinfo);


You can abort a decompression cycle by calling jpeg_destroy_decompress() or jpeg_destroy() if you don't need the JPEG object any more, or jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object.

The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc

Applications using the JPEG library should include the header file jpeglib.h to obtain declarations of data types and routines. Before including jpeglib.h, include system headers that define at least the typedefs FILE and size_t. On ANSI-conforming systems, including <stdio.h> is sufficient; on older Unix systems, you may need <sys/types.h> to define size_t.

If the application needs to refer to individual JPEG library error codes, also include jerror.h to define those symbols.

jpeglib.h indirectly includes the files jconfig.h and jmorecfg.h. If you are installing the JPEG header files in a system directory, you will want to install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfg.h.
The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build libjpeg.a automatically (see install.txt).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *not* guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the jmemdos.c memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmemnobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.

**ADVANCED FEATURES**

Compression parameter selection
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This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend...
you use a helper routine where one is provided, in preference to twiddling cinfo fields directly.

The helper routines are:

jpeg_set_defaults (j_compress_ptr cinfo)
This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field in_color_space, which must already be set in cinfo). Many applications will only need to use this routine and perhaps jpeg_set_quality().

jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)
Sets the JPEG file's colorspace (field jpeg_color_space) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call jpeg_set_colorspace() before rather than after.

jpeg_default_colorspace (j_compress_ptr cinfo)
Selects an appropriate JPEG colorspace based on cinfo->in_color_space, and calls jpeg_set_colorspace(). This is actually a subroutine of jpeg_set_defaults(). It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)
Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the force_baseline parameter is TRUE, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when force_baseline is FALSE, but other decoders may not be.

jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor, boolean force_baseline)
Same as jpeg_set_quality() except that the generated tables are the sample tables given in the JPEC spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus scale_factor = 100 reproduces the spec's tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not recommend linear scaling as a user-visible quality scale otherwise.
force_baseline again constrains the computed table entries to 1..255.

int jpeg_quality_scaling (int quality)
Converts a value on the IJG-recommended quality scale to a linear scaling percentage. Note that this routine may change or go away in future releases --- IJG may choose to adopt a scaling method that can't be expressed as a simple scalar multiplier, in which case the premise of this routine collapses. Caveat user.

jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)
[libjpeg v7+ API/ABI emulation only]
Set default quantization tables with linear q_scale_factor[] values (see below).

jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl,
    const unsigned int *basic_table,
    int scale_factor, boolean force_baseline)
Allows an arbitrary quantization table to be created. which_tbl indicates which table slot to fill. basic_table points to an array of 64 unsigned ints given in normal array order. These values are multiplied by scale_factor/100 and then clamped to the range 1..65535 (or to 1..255 if force_baseline is TRUE).
CAUTION: prior to library version 6a, jpeg_add_quant_table expected the basic table to be given in JPEG zigzag order. If you need to write code that works with either older or newer versions of this routine, you must check the library version number. Something like "#if JPEG_LIB_VERSION >= 61" is the right test.

jpeg_simple_progression (j_compress_ptr cinfo)
Generates a default scan script for writing a progressive-JPEG file. This is the recommended method of creating a progressive file, unless you want to make a custom scan sequence. You must ensure that the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are:
JDCT_ISLOW: slow but accurate integer algorithm
JDCT_IFAST: faster, less accurate integer method
JDCT_FLOAT: floating-point method
JDCT_DEFAULT: default method (normally JDCT_ISLOW)
JDCT_FASTEST: fastest method (normally JDCT_IFAST)
The FLOAT method is very slightly more accurate than the ISLOW method, but may give different results on different machines due to varying roundoff behavior. The integer methods should give the same results on all machines. On machines with sufficiently fast FP hardware, the
floating-point method may also be the fastest. The IFAST method is considerably less accurate than the other two; its use is not recommended if high quality is a concern. JDCT_DEFAULT and JDCT_FASTEST are macros configurable by each installation.

```
J_COLOR_SPACE jpeg_color_space
int num_components
The JPEG color space and corresponding number of components; see "Special color spaces", below, for more info. We recommend using jpeg_set_color_space() if you want to change these.
```

```
boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is FALSE, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is TRUE, you need not supply Huffman tables at all, and any you do supply will be overwritten.
```

```
unsigned int restart_interval
int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero. Set restart_interval to specify the exact interval in MCU blocks. Set restart_in_rows to specify the interval in MCU rows. (If restart_in_rows is not 0, then restart_interval is set after the image width in MCUs is computed.) Defaults are zero (no restarts). One restart marker per MCU row is often a good choice.
```

```
NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs. If you use restarts, you may want to use larger intervals in those cases.
```

```
const jpeg_scan_info * scan_info
int num_scans
By default, scan_info is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, scan_info points to an array of scan definition records of length num_scans. The compressor will then write a JPEG file having one scan for each scan definition record. This is used to generate noninterleaved or progressive JPEG files. The library checks that the scan array defines a valid JPEG scan sequence. (jpeg_simple_progression creates a suitable scan definition array for progressive JPEG.) This is discussed further under "Progressive JPEG support".
```

```
int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for
minimal smoothing to 100 for maximum smoothing. Consult jcsample.c for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and jpeg_set_colorspace() set this TRUE if a JFIF-legal JPEG color space (ie, YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker.
jpeg_set_defaults() initializes the version to 1.01 (major=minor=1). You should set it to 1.02 (major=1, minor=2) if you plan to write any JFIF 1.02 extension markers.

UINT8 density_unit
UINT16 X_density
UINT16 Y_density
The resolution information to be written into the JFIF marker; not used otherwise. density_unit may be 0 for unknown, 1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1 indicating square pixels of unknown size.

boolean write_Adobe_marker
If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and jpeg_set_colorspace() set this TRUE if JPEG color space RGB, CMYK, or YCCK is selected, otherwise FALSE. It is generally a bad idea to set both write_JFIF_header and write_Adobe_marker. In fact, you probably shouldn't change the default settings at all --- the default behavior ensures that the JPEG file's color space can be recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLS]
Pointers to coefficient quantization tables, one per table slot, or NULL if no table is defined for a slot. Usually these should be set via one of the above helper routines; jpeg_add_quant_table() is general enough to define any quantization table. The other routines will set up table slot 0 for luminance quality and table slot 1 for chrominance.

int q_scale_factor[NUM_QUANT_TBLS]
[libjpeg v7+ API/ABI emulation only]
Linear quantization scaling factors (0-100, default 100) for use with jpeg_default_qtables().
See rdswitch.c and cjpeg.c for an example of usage.
Note that the q_scale_factor[] values use "linear" scales, so JPEG quality levels chosen by the user must be converted to these scales using jpeg_quality_scaling(). Here is an example that corresponds to
cjpeg -quality 90,70:

ejpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);

jpeg_default_qtables(cinfo, force_baseline);

CAUTION: Setting separate quality levels for chrominance and luminance is mainly only useful if chrominance subsampling is disabled. 2x2 chrominance subsampling (AKA "4:2:0") is the default, but you can explicitly disable subsampling as follows:

cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;

JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]
Pointers to Huffman coding tables, one per table slot, or NULL if no table is defined for a slot. Slots 0 and 1 are filled with the JPEG sample tables by jpeg_set_defaults(). If you need to allocate more table structures, jpeg_alloc_huff_table() may be used.
Note that optimal Huffman tables can be computed for an image by setting optimize_coding, as discussed above; there's seldom any need to mess with providing your own Huffman tables.

[jlibjpeg v7+ API/ABI emulation only]
The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by jpeg_start_compress(). You can also call jpeg_calc_jpeg_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg_width
Actual dimensions of output image.
JDIMENSION jpeg_height

Per-component parameters are stored in the struct cinfo.comp_info[i] for component number i. Note that components here refer to components of the JPEG color space, *not* the source image color space. A suitably large comp_info[] array is allocated by jpeg_set_defaults(); if you choose not to use that routine, it's up to you to allocate the array.
int component_id
The one-byte identifier code to be recorded in the JPEG file for
this component. For the standard color spaces, we recommend you
leave the default values alone.

int h_samp_factor
int v_samp_factor
Horizontal and vertical sampling factors for the component; must
be 1..4 according to the JPEG standard. Note that larger sampling
factors indicate a higher-resolution component; many people find
this behavior quite unintuitive. The default values are 2,2 for
luminance components and 1,1 for chrominance components, except
for grayscale where 1,1 is used.

int quant_tbl_no
Quantization table number for component. The default value is
0 for luminance components and 1 for chrominance components.

int dc_tbl_no
int ac_tbl_no
DC and AC entropy coding table numbers. The default values are
0 for luminance components and 1 for chrominance components.

int component_index
Must equal the component's index in comp_info[]. (Beginning in
release v6, the compressor library will fill this in automatically;
you don’t have to.)

Decompression parameter selection
---------------------------------
Decompression parameter selection is somewhat simpler than compression
parameter selection, since all of the JPEG internal parameters are
recorded in the source file and need not be supplied by the application.
(Unless you are working with abbreviated files, in which case see
"Abbreviated datastreams", below.) Decompression parameters control
the postprocessing done on the image to deliver it in a format suitable
for the application's use. Many of the parameters control speed/quality
tradeoffs, in which faster decompression may be obtained at the price of
a poorer-quality image. The defaults select the highest quality (slowest)
processing.

The following fields in the JPEG object are set by jpeg_read_header() and
may be useful to the application in choosing decompression parameters:

JDIMENSION image_width Width and height of image
JDIMENSION image_height
int num_components
Number of color components

J_COLOR_SPACE jpeg_color_space
Colorspace of image

boolean saw_JFIF_marker
TRUE if a JFIF APP0 marker was seen

UINT8 JFIF_major_version
Version information from JFIF marker

UINT8 JFIF_minor_version

UINT8 density_unit
Resolution data from JFIF marker

UINT16 X_density

UINT16 Y_density

boolean saw_Adobe_marker
TRUE if an Adobe APP14 marker was seen

UINT8 Adobe_transform
Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG
standard proper does not provide a way to record it. In practice most files
adhere to the JFIF or Adobe conventions, and the decoder will recognize these
correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the
returned image are:

J_COLOR_SPACE out_color_space
Output color space. jpeg_read_header() sets an appropriate default
based on jpeg_color_space; typically it will be RGB or grayscale.
The application can change this field to request output in a different
colorspace. For example, set it to JCS_GraySCALE to get grayscale
output from a color file. (This is useful for previewing: grayscale
output is faster than full color since the color components need not
be processed.) Note that not all possible color space transforms are
currently implemented; you may need to extend jdcolor.c if you want an
unusual conversion.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Default is
1/1, or no scaling. Currently, the only supported scaling ratios
are M/8 with all M from 1 to 16, or any reduced fraction thereof (such
as 1/2, 3/4, etc.) (The library design allows for arbitrary
scaling ratios but this is not likely to be implemented any time soon.)
Smaller scaling ratios permit significantly faster decoding since
fewer pixels need be processed and a simpler IDCT method can be used.

boolean quantize_colors
If set TRUE, colormapped output will be delivered. Default is FALSE,
meaning that full-color output will be delivered.

The next three parameters are relevant only if quantize_colors is TRUE.

int desired_number_of_colors
Maximum number of colors to use in generating a library-supplied color
map (the actual number of colors is returned in a different field).  Default 256.  Ignored when the application supplies its own color map.

boolean two_pass_quantize  
If TRUE, an extra pass over the image is made to select a custom color map for the image.  This usually looks a lot better than the one-size-fits-all colormap that is used otherwise.  Default is TRUE.  Ignored when the application supplies its own color map.

J_DITHER_MODE dither_mode  
Selects color dithering method.  Supported values are:  
JDITHER_NONE no dithering: fast, very low quality  
JDITHER_ORDERED ordered dither: moderate speed and quality  
JDITHER_FS Floyd-Steinberg dither: slow, high quality  
Default is JDITHER_FS.  (At present, ordered dither is implemented only in the single-pass, standard-colormap case.  If you ask for ordered dither when two_pass_quantize is TRUE or when you supply an external color map, you'll get F-S dithering.)

When quantize_colors is TRUE, the target color map is described by the next two fields.  colormap is set to NULL by jpeg_read_header().  The application can supply a color map by setting colormap non-NULL and setting actual_number_of_colors to the map size.  Otherwise, jpeg_start_decompress() selects a suitable color map and sets these two fields itself.  [Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

JSAMPARRAY colormap  
The color map, represented as a 2-D pixel array of out_color_components rows and actual_number_of_colors columns.  Ignored if not quantizing.  
CAUTION: if the JPEG library creates its own colormap, the storage pointed to by this field is released by jpeg_finish_decompress().  
Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors  
The number of colors in the color map.

Additional decompression parameters that the application may set include:

J_DCT_METHOD dct_method  
Selects the algorithm used for the DCT step.  Choices are the same as described above for compression.

boolean do_fancy_upsampling  
If TRUE, do careful upsampling of chroma components.  If FALSE, a faster but sloppier method is used.  Default is TRUE.  The visual impact of the sloppier method is often very small.
boolean do_block_smoothing
If TRUE, interblock smoothing is applied in early stages of decoding
progressive JPEG files; if FALSE, not. Default is TRUE. Early
progression stages look "fuzzy" with smoothing, "blocky" without.
In any case, block smoothing ceases to be applied after the first few
AC coefficients are known to full accuracy, so it is relevant only
when using buffered-image mode for progressive images.

boolean enable_1pass_quant
boolean enable_external_quant
boolean enable_2pass_quant
These are significant only in buffered-image mode, which is
described in its own section below.

The output image dimensions are given by the following fields. These are
computed from the source image dimensions and the decompression parameters
by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions()
to obtain the values that will result from the current parameter settings.
This can be useful if you are trying to pick a scaling ratio that will get
close to a desired target size. It's also important if you are using the
JPEG library's memory manager to allocate output buffer space, because you
are supposed to request such buffers *before* jpeg_start_decompress().

JDIMENSION output_width Actual dimensions of output image.
JDIMENSION output_height
int out_color_components Number of color components in out_color_space.
int output_components Number of color components returned.
int rec_outbuf_height Recommended height of scanline buffer.

When quantizing colors, output_components is 1, indicating a single color map
index per pixel. Otherwise it equals out_color_components. The output arrays
are required to be output_width * output_components JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the
buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the
library will still work, but time will be wasted due to unnecessary data
copying. In high-quality modes, rec_outbuf_height is always 1, but some
faster, lower-quality modes set it to larger values (typically 2 to 4).
If you are going to ask for a high-speed processing mode, you may as well
go to the trouble of honoring rec_outbuf_height so as to avoid data copying.
(An output buffer larger than rec_outbuf_height lines is OK, but won't
provide any material speed improvement over that height.)

Special color spaces
---------------------
The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing de-facto JPEG file format standards specify YCbCr or grayscale data (JFIF), or grayscale, RGB, YCbCr, CMYK, or YCCK (Adobe). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB <=> YCbCr and CMYK <=> YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field in_color_space. This is transformed to the JPEG file's color space given by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color space depending on in_color_space, but you can override this by calling jpeg_set_colorspace(). Of course you must select a supported transformation. jccolor.c currently supports the following transformations:

- RGB => YCbCr
- RGB => GRAYSCALE
- YCbCr => GRAYSCALE
- CMYK => YCCK

plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB, YCbCr => YCbCr, CMYK => CMYK, YCCK => YCCK, and UNKNOWN => UNKNOWN.

The de-facto file format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the de-facto standards. jpeg_set_colorspace() will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space. For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting in_color_space and jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN. You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for jpeg_set_colorspace(), in jcparam.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space, and this is transformed to the output color space out_color_space. jpeg_read_header's setting of jpeg_color_space can be relied on if the file conforms to JFIF or Adobe conventions, but otherwise it is no better than a
If you know the JPEG file's color space for certain, you can override jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also selects a default output color space based on (its guess of) jpeg_color_space; set out_color_space to override this. Again, you must select a supported transformation. jdcolor.c currently supports

- YCbCr => RGB
- YCbCr => GRAYSCALE
- RGB => GRAYSCALE
- GRAYSCALE => RGB
- YCCK => CMYK

as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an application can force grayscale JPEGs to look like color JPEGs if it only wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You'll need to modify the code if you want to use it for non-RGB output color spaces. Note that jquant2.c is used to map to an application-supplied colormap as well as for the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect. This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot "fix" this in the library by inverting the data during the CMYK<=>YCCK transform, because that would break other applications, notably Ghostscript. Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write uninverted YCCK in EPS/JPEG files, and will omit the PS-level inversion. (But the data polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.

Error handling
--------------

When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on stderr, followed by exit(). You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file example.c illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:
* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a
damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating
the importance of the message; you can control the verbosity of the
program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module
(jerror.c) with your own code. However, you can avoid code duplication by
only replacing some of the routines depending on the behavior you need.
This is accomplished by calling jpeg_std_error() as usual, but then overriding
some of the method pointers in the jpeg_error_mgr struct, as illustrated by
example.c.

All of the error handling routines will receive a pointer to the JPEG object
(a j_common_ptr which points to either a jpeg_compress_struct or a
jpeg_decompress_struct; if you need to tell which, test the is_decompressor
field). This struct includes a pointer to the error manager struct in its
"err" field. Frequently, custom error handler routines will need to access
additional data which is not known to the JPEG library or the standard error
handler. The most convenient way to do this is to embed either the JPEG
object or the jpeg_error_mgr struct in a larger structure that contains
additional fields; then casting the passed pointer provides access to the
additional fields. Again, see example.c for one way to do it. (Beginning
with IJG version 6b, there is also a void pointer "client_data" in each
JPEG object, which the application can also use to find related data.
The library does not touch client_data at all.)

The individual methods that you might wish to override are:

error_exit (j_common_ptr cinfo)
Receives control for a fatal error. Information sufficient to
generate the error message has been stored in cinfo->err; call
output_message to display it. Control must NOT return to the caller;
generally this routine will exit() or longjmp() somewhere.
Typically you would override this routine to get rid of the exit()
default behavior. Note that if you continue processing, you should
clean up the JPEG object with jpeg_abort() or jpeg_destroy().

output_message (j_common_ptr cinfo)
Actual output of any JPEG message. Override this to send messages
somewhere other than stderr. Note that this method does not know
how to generate a message, only where to send it.

format_message (j_common_ptr cinfo, char * buffer)
Constructs a readable error message string based on the error info
stored in cinfo->err. This method is called by output_message. Few
applications should need to override this method. One possible
reason for doing so is to implement dynamic switching of error message language.

```
emit_message (j_common_ptr cinfo, int msg_level)
```
Decide whether or not to emit a warning or trace message; if so, calls output_message. The main reason for overriding this method would be to abort on warnings. msg_level is -1 for warnings, 0 and up for trace messages.

Only error_exit() and emit_message() are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field err->jpeg_message_table. The messages are numbered from 0 to err->last_jpeg_message, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See jerror.h for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second "add-on" message table for this purpose. To define an addon table, set the pointer err->addon_message_table and the message numbers err->first_addon_message and err->last_addon_message. If you number the addon messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications cjpeg/djpeg for an example of using addon messages (the addon messages are defined in cderror.h).

Actual invocation of the error handler is done via macros defined in jerror.h:
```
ERREXITn(...) for fatal errors
WARNMSn(...) for corrupt-data warnings
TRACEMSn(...) for trace and informational messages.
```
These macros store the message code and any additional parameters into the error handler struct, then invoke the error_exit() or emit_message() method. The variants of each macro are for varying numbers of additional parameters. The additional parameters are inserted into the generated message using standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)
```
----------------------------------------------------------
```
The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to
do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

JOCTET * next_output_byte; /* => next byte to write in buffer */
size_t free_in_buffer;     /* # of byte spaces remaining in buffer */

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

init_destination (j_compress_ptr cinfo)
Initialize destination. This is called by jpeg_start_compress() before any data is actually written. It must initialize next_output_byte and free_in_buffer. free_in_buffer must be initialized to a positive value.

empty_output_buffer (j_compress_ptr cinfo)
This is called whenever the buffer has filled (free_in_buffer reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of next_output_byte and free_in_buffer). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped.
free_in_buffer must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

term_destination (j_compress_ptr cinfo)
Terminate destination --- called by jpeg_finish_compress() after all data has been written. In most applications, this must flush any data remaining in the buffer. Use either next_output_byte or free_in_buffer to determine how much data is in the buffer.

term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the destination manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_destination_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination managers.

Decompression source managers follow a parallel design, but with some additional frammishes. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:

const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer;         /* # of bytes remaining in buffer */

The library increments the pointer and decrements the count until the buffer is emptied. The manager's fill_input_buffer method must reset the pointer and count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:

init_source (j_decompress_ptr cinfo)
Initialize source. This is called by jpeg_read_header() before any data is actually read. Unlike init_destination(), it may leave bytes_in_buffer set to 0 (in which case a fill_input_buffer() call will occur immediately).

fill_input_buffer (j_decompress_ptr cinfo)
This is called whenever bytes_in_buffer has reached zero and more data is wanted. In typical applications, it should read fresh data into the buffer (ignoring the current state of next_input_byte and bytes_in_buffer), reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been reloaded.
It is not necessary to fill the buffer entirely, only to obtain at least one more byte. bytes_in_buffer MUST be set to a positive value if TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this mode is discussed in the next section).

skip_input_data (j_decompress_ptr cinfo, long num_bytes)
Skip num_bytes worth of data. The buffer pointer and count should be advanced over num_bytes input bytes, refilling the buffer as needed. This is used to skip over a potentially large amount of uninteresting data (such as an APPn marker). In some applications it may be possible to optimize away the reading of the skipped data, but it's not clear that being smart is worth much trouble; large skips are uncommon. bytes_in_buffer may be zero on return. A zero or negative skip count should be treated as a no-op.

resync_to_restart (j_decompress_ptr cinfo, int desired)
This routine is called only when the decompressor has failed to find a restart (RSTn) marker where one is expected. Its mission is to find a suitable point for resuming decompression. For most applications, we recommend that you just use the default resync procedure, jpeg_resync_to_restart(). However, if you are able to back up in the input data stream, or if you have a-priori knowledge about the likely location of restart markers, you may be able to do better. Read the read_restart_marker() and jpeg_resync_to_restart() routines in jdmarker.c if you think you'd like to implement your own resync procedure.

term_source (j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing as an EOF return. If the end of the file has been reached, the routine has a choice of exiting via ERREXIT() or inserting fake data into the buffer. In most cases, generating a warning message and inserting a fake EOI marker is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor may swallow the EOI and again demand data ... just keep feeding it fake EOIs. jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.
For more information, consult the memory and stdio source and destination managers in jdatasrc.c and jdatadst.c.

I/O suspension
-------------

Some applications need to use the JPEG library as an incremental memory-to-memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the empty_output_buffer() or fill_input_buffer() routine is a no-op, merely returning FALSE to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns FALSE; typically it will not do anything else. This will cause the compressor to return to the caller of jpeg_write_scanlines(), with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call jpeg_write_scanlines() again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although empty_output_buffer() is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of next_output_byte/free_in_buffer. The data beyond that point will be regenerated after resumption.
Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call jpeg_write_scanlines() unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:

* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.

* When you call jpeg_finish_compress(), there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during jpeg_finish_compress(), which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:

* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
* jpeg_read_scanlines(): will return the number of scanlines already completed (possibly 0).
* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE.

The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of jpeg_read_scanlines(), increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a
convenient restart point before suspending. When fill_input_buffer() is called, next_input_byte/bytes_in_buffer point to the current restart point, which is where the decompressor will backtrack to if FALSE is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The skip_input_data() source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement bytes_in_buffer to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then skip_input_data() must set bytes_in_buffer to zero and record the additional skip distance somewhere else. The decompressor will immediately call fill_input_buffer(), which should return FALSE, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within fill_input_buffer(); the latter is probably more efficient. If fill_input_buffer() knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return TRUE just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially: they are either saved into allocated memory, or skipped over by calling skip_input_data(). In the former case,
suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on skip_input_data's shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having empty_output_buffer() or fill_input_buffer() set the pointer and count to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when fill_input_buffer() is called, the current pointer & count indicate the backtrack restart point. Since fill_input_buffer() will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to fill_input_buffer() occurs in the same library call, and no additional input data is available, so fill_input_buffer must return FALSE. If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when fill_input_buffer() is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

Progressive JPEG support

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Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.
The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc. The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg's.) When scan_info is not NULL, the compression library will store DCT'd data into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg_finish_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of
a multi-scan file during jpeg_start_decompress(), so that it can provide a
final decoded image. (Here “multi-scan” means either progressive or
multi-scan sequential.) This makes multi-scan files transparent to the
decoding application. However, existing applications that used suspending
input with version 5 of the IJG library will need to be modified to check
for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library's
buffered-image mode. This is described in the next section.

Buffered-image mode
---------------------

In buffered-image mode, the library stores the partially decoded image in a
coefficient buffer, from which it can be read out as many times as desired.
This mode is typically used for incremental display of progressive JPEG files,
but it can be used with any JPEG file. Each scan of a progressive JPEG file
adds more data (more detail) to the buffered image. The application can
display in lockstep with the source file (one display pass per input scan),
or it can allow input processing to outrun display processing. By making
input and display processing run independently, it is possible for the
application to adapt progressive display to a wide range of data transmission
rates.

The basic control flow for buffered-image decoding is

jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE;/* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
    adjust output decompression parameters if required
    jpeg_start_output()/* start a new output pass */
    for (all scanlines in image) {
        jpeg_read_scanlines()
        display scanlines
    }
    jpeg_finish_output()/* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()

This differs from ordinary unbuffered decoding in that there is an additional
level of looping. The application can choose how many output passes to make
and how to display each pass.
The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically:

```c
while (! jpeg_input_complete(&cinfo))
```

and the start-output call should read:

```c
jpeg_start_output(&cinfo, cinfo.input_scan_number);
```

The second parameter to `jpeg_start_output()` indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and `jpeg_finish_output()` advances to the next scan or end-of-image marker (hence `input_scan_number` will be incremented by the time control arrives back at `jpeg_start_output()`). With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the `jpeg_start_output() / jpeg_read_scanlines() / jpeg_finish_output()` sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass. Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if you want special processing in the final pass.

When done with the image, be sure to call `jpeg_finish_decompress()` to release the buffered image (or just use `jpeg_destroy_decompress()`).

If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what's needed to produce output. This is done by calling the routine `jpeg_consume_input()`. The return value is one of the following:

- **JPEG_REACHED_SOS**: reached an SOS marker (the start of a new scan)
- **JPEG_REACHED_EOI**: reached the EOI marker (end of image)
- **JPEG_ROW_COMPLETED**: completed reading one MCU row of compressed data
- **JPEG_SCAN_COMPLETED**: completed reading last MCU row of current scan
- **JPEG_SUSPENDED**: suspended before completing any of the above

(JPEG_SUSPENDED can occur only if a suspending data source is used.) This routine can be called at any time after initializing the JPEG object. It reads some additional data and returns when one of the indicated significant events occurs. (If called after the EOI marker is reached, it will immediately return JPEG_REACHED_EOI without attempting to read more data.)
The library’s output processing will automatically call jpeg_consume_input() whenever the output processing overtakes the input; thus, simple lockstep display requires no direct calls to jpeg_consume_input(). But by adding calls to jpeg_consume_input(), you can absorb data in advance of what is being displayed. This has two benefits:

* You can limit buildup of unprocessed data in your input buffer.
* You can eliminate extra display passes by paying attention to the state of the library’s input processing.

The first of these benefits only requires interspersing calls to jpeg_consume_input() with your display operations and any other processing you may be doing. To avoid wasting cycles due to backtracking, it’s best to call jpeg_consume_input() only after a hundred or so new bytes have arrived. This is discussed further under “I/O suspension”, above. (Note: the JPEG library currently is not thread-safe. You must not call jpeg_consume_input() from one thread of control if a different library routine is working on the same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available before you start a new output pass, you may as well skip the output pass corresponding to the completed scan. This occurs for free if you pass cinfo.input_scan_number as the target scan number to jpeg_start_output(). The input_scan_number field is simply the index of the scan currently being consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling jpeg_start_output(): call jpeg_consume_input() repeatedly until it returns JPEG_SUSPENDED or JPEG_REACHED_EOI.

The target scan number passed to jpeg_start_output() is saved in the cinfo.output_scan_number field. The library’s output processing calls jpeg_consume_input() whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row. Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind". You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what jpeg_start_decompress() does when you don’t select buffered-image mode.)

When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan
When data is arriving faster than the output display processing can advance through the image, `jpeg_consume_input()` will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part. Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.

When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:

```c
  do {
    absorb any waiting input by calling jpeg_consume_input()
    final_pass = jpeg_input_complete(&cinfo);
    adjust output decompression parameters if required
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
  } while (! final_pass);
```
later than quitting as soon as `jpeg_input_complete()` returns TRUE. This arrangement makes it simple to use higher-quality decoding parameters for the final pass. But if you don't want to use special parameters for the final pass, the right loop logic is like this:

```c
for (;;) {
  absorb any waiting input by calling jpeg_consume_input()
  jpeg_start_output(&cinfo, cinfo.input_scan_number);
  ...
  jpeg_finish_output()
  if (jpeg_input_complete(&cinfo) &&
      cinfo.input_scan_number == cinfo.output_scan_number)
    break;
}
```
In this case you don't need to know in advance whether an output pass is to be the last one, so it's not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able)
to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass, then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the JPEG_REACHED_EOI return code from jpeg_consume_input(), or equivalently by testing jpeg_input_complete().) In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call jpeg_finish_output() and then start a new pass with jpeg_start_output().

A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper. In most cases it's probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call jpeg_consume_input() until it returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher number as the target scan for jpeg_start_output(); but that method doesn't let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:
* jpeg_start_output() performs input only if you request 2-pass quantization and the target scan isn't fully read yet. (This is discussed below.)
* jpeg_read_scanlines(), as always, returns the number of scanlines that it was able to produce before suspending.
* jpeg_finish_output() will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if jpeg_consume_input() has already reached the end of the file or a SOS marker beyond the target output scan.)
* jpeg_finish_decompress() will read until the end of file, and thus can suspend if the end hasn't already been reached (as can be tested by calling jpeg_input_complete()).
jpeg_start_output(), jpeg_finish_output(), and jpeg_finish_decompress() all return TRUE if they completed their tasks, FALSE if they had to suspend. In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after jpeg_start_decompress() is called:

* dct_method can be changed before each call to jpeg_start_output().
  
  For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.

* dither_mode can be changed before each call to jpeg_start_output(); of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial max_memory_to_use specification to be exceeded, which in the worst case would result in an out-of-memory failure.

* do_block_smoothing can be changed before each call to jpeg_start_output().
  
  This setting is relevant only when decoding a progressive JPEG image. During the first DC-only scan, block smoothing provides a very "fuzzy" look instead of the very "blocky" look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.

* Color quantization mode can be changed under the rules described below. You *cannot* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.

When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display. The library allows you to change among its three quantization methods:

1. Single-pass quantization to a fixed color cube.
   Selected by cinfo.two_pass_quantize = FALSE and cinfo.colormap = NULL.

2. Single-pass quantization to an application-supplied colormap.
   Selected by setting cinfo.colormap to point to the colormap (the value of two_pass_quantize is ignored); also set cinfo.actual_number_of_colors.

3. Two-pass quantization to a colormap chosen specifically for the image.
   Selected by cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL.
   (This is the default setting selected by jpeg_read_header, but it is probably NOT what you want for the first pass of progressive display!)

These methods offer successively better quality and lesser speed. However,
only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call jpeg_start_decompress(). (If we did not require this, the max_memory_to_use setting would be a complete fiction.) You do this by setting one or more of these three cinfo fields to TRUE:

- enable_1pass_quant
- enable_external_quant
- enable_2pass_quant

All three are initialized FALSE by jpeg_read_header(). But jpeg_start_decompress() automatically sets TRUE the one selected by the current two_pass_quantize and colormap settings, so you only need to set the enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at jpeg_start_decompress() time, you can change to any enabled quantization method by setting two_pass_quantize and colormap properly just before calling jpeg_start_output(). The following special rules apply:

1. You must explicitly set cinfo.colormap to NULL when switching to 1-pass or 2-pass mode from a different mode, or when you want the 2-pass quantizer to be re-run to generate a new colormap.
2. To switch to an external colormap, or to change to a different external colormap than was used on the prior pass, you must call jpeg_new_colormap() after setting cinfo.colormap.

NOTE: if you want to use the same colormap as was used in the prior pass, you should not do either of these things. This will save some nontrivial switchover costs.

(These requirements exist because cinfo.colormap will always be non-NULL after completing a prior output pass, since both the 1-pass and 2-pass quantizers set it to point to their output colormaps. Thus you have to do one of these two things to notify the library that something has changed. Yup, it's a bit klugy, but it's necessary to do it this way for backwards compatibility.)

Note that in buffered-image mode, the library generates any requested colormap during jpeg_start_output(), not during jpeg_start_decompress().

When using two-pass quantization, jpeg_start_output() makes a pass over the buffered image to determine the optimum color map; it therefore may take a significant amount of time, whereas ordinarily it does little work. The progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than or equal to the current input scan number, jpeg_start_output() will attempt to consume input as it makes this pass. If you use a suspending data source, you need to check for a FALSE return from jpeg_start_output() under these conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which jpeg_start_output() will consume input.
Application authors who support buffered-image mode may be tempted to use it for all JPEG images, even single-scan ones. This will work, but it is inefficient: there is no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling jpeg_has_multiple_scans(), which will return a correct result at any time after jpeg_read_header() completes.

It is also worth noting that when you use jpeg_consume_input() to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager jmemnobs.c if you can (ie, if you have enough real or virtual main memory). If not, at least make sure that max_memory_to_use is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use jpeg_consume_input() for all input processing, including reading the initial markers; that is, you may wish to call jpeg_consume_input() instead of jpeg_read_header() during startup. This works, but note that you must check for JPEG_REACHED_SOS and JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes. Once the first SOS marker has been reached, you must call jpeg_start_decompress() before jpeg_consume_input() will consume more input; it'll just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case. If this happens, the decompressor will not read any more input until you call jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images
--------------------------------------------

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.
A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:

- "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
- "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
- "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.
To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);  
set destination to image file
jpeg_start_compress(&cinfo, FALSE);  
write data...
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set optimize_coding = TRUE when you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See jpeg_copy_critical_parameters() for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

if (cinfo.quant_tbl_ptrs[n] == NULL)  
cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);  
quant_ptr = cinfo.quant_tbl_ptrs[n]; /* quant_ptr is JQUANT_TBL */
for (i = 0; i < 64; i++) {
  /* Qtable[] is desired quantization table, in natural array order */
  quant_ptr->quantval[i] = Qtable[i];
}

Code to load a fixed Huffman table is typically (for AC table "n"):

if (cinfo.ac_huff_tbl_ptrs[n] == NULL)  
cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);  
huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL */
for (i = 1; i <= 16; i++) {
  /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
  huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
  /* symbols[] is the list of Huffman symbols, in code-length order */
  huff_ptr->huffval[i] = symbols[i];
}

(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a constant JQUANT_TBL object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The jpeg_read_header() call is sufficient to read a tables-only file. You must pass a second parameter of FALSE to indicate that you do not require an image to be present. Thus, the typical scenario is

create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);

In some cases, you may want to read a file without knowing whether it contains an image or just tables. In that case, pass FALSE and check the return value from jpeg_read_header(): it will be JPEG_HEADER_OK if an image was found,
It is possible to read a series of images from a single source file by repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence, without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn't flush the output buffer at term_destination() time. This would speed things up by some trifling amount. Of course, you'd need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing FALSE to jpeg_start_compress().

Special markers
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Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized -- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you
Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling jpeg_write_marker() after jpeg_start_compress() and before the first call to jpeg_write_scanlines(). When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, jpeg_write_marker will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by comment_text:

           jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));

If it's not convenient to store all the marker data in memory at once, you can instead call jpeg_write_m_header() followed by multiple calls to jpeg_write_m_byte(). If you do it this way, it's your responsibility to call jpeg_write_m_byte() exactly the number of times given in the length parameter to jpeg_write_m_header(). (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension".)

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set cinfo.JFIF_minor_version = 2 so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:
1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read. The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a decompression object and before calling jpeg_read_header(), because the markers of interest will typically be near the head of the file and so will be scanned by jpeg_read_header. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call jpeg_save_markers(cinfo, marker_code, length_limit) where marker_code is the marker type to save, JPEG_COM or JPEG_APP0+n. (To arrange to save all the special marker types, you need to call this routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer than length_limit data bytes, only length_limit bytes will be saved; this parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set length_limit to 0xFFFF; that is enough since marker lengths are only 16 bits. As a special case, setting length_limit to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After jpeg_read_header() completes, you can examine the special markers by following the cinfo->marker_list pointer chain. All the special markers in the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn't ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed length_limit for the particular marker type. Note that these lengths exclude the marker length word, whereas the stored representation within the JPEG file includes it. (Hence the maximum data length is really only 65533.)

It is possible that additional special markers appear in the file beyond the SOS marker at which jpeg_read_header stops; if so, the marker list will be extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing jpeg_read_header, to ensure that the max_memory_to_use setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call jpeg_finish_decompress or
jpeg_abort, at which point the memory is freed and the list is set to empty. (jpeg_destroy also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library will silently force the length up to the minimum it wants. (But you can set a zero length limit to prevent them from being saved at all.) Also, in a 16-bit environment, the maximum length limit may be constrained to less than 65533 by malloc() limitations. It is therefore best not to assume that the effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling jpeg_set_marker_processor(). A marker processor routine must have the signature

boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)

Although the marker code is not explicitly passed, the routine can find it in cinfo->unread_marker. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in jdmarker.c for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling jpeg_save_markers(); that method doesn't interfere with the library's own processing of these markers.)

jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.

A simple example of an external COM processor can be found in djpeg.c. Also, see jpegtran.c for an example of using jpeg_save_markers.

Raw (downsampled) image data
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Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampled data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to
use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set jpeg_color_space = in_color_space (or jpeg_color_space = out_color_space for decompression). The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsampled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampling row must contain a multiple of 8 valid samples, and there must be a multiple of 8 sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call jpeg_write_raw_data() in place of jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do the following:

* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().) This notifies the library that you will be supplying raw data.
* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colorspace() call is a good idea. Note that since color conversion is bypassed, in_color_space is ignored, except that jpeg_set_defaults() uses it to choose the default jpeg_color_space setting.
* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of jpeg_write_scanlines(). The two routines work similarly except that jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY. The scanlines count passed to and returned from jpeg_write_raw_data is measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say v_samp_factor*DCTSIZE sample rows of each component. The passed num_lines value must be at least max_v_samp_factor*DCTSIZE, and the return value will
be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the image; don’t forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each component as

cinfo->comp_info[i].width_in_blocks*DCTSIZE  samples per row

cinfo->comp_info[i].height_in_blocks*DCTSIZE rows in image

after jpeg_start_compress() has initialized those fields. If the valid data is smaller than this, it must be padded appropriately. For some sampling factors and image sizes, additional dummy DCT blocks are inserted to make the image a multiple of the MCU dimensions. The library creates such dummy blocks itself; it does not read them from your supplied data. Therefore you need never pad by more than DCTSIZE samples. An example may help here.

Assume 2h2v downsampling of YCbCr data, that is

cinfo->comp_info[0].h_samp_factor = 2 for Y

cinfo->comp_info[0].v_samp_factor = 2

cinfo->comp_info[1].h_samp_factor = 1 for Cb

cinfo->comp_info[1].v_samp_factor = 1

cinfo->comp_info[2].h_samp_factor = 1 for Cr

cinfo->comp_info[2].v_samp_factor = 1

and suppose that the nominal image dimensions (cinfo->image_width and cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will compute downsampled_width = 101 and width_in_blocks = 13 for Y, downsampled_width = 51 and width_in_blocks = 7 for Cb and Cr (and the same for the height fields). You must pad the Y data to at least 13*8 = 104 columns and rows, the Cb/Cr data to at least 7*8 = 56 columns and rows. The MCU height is max_v_samp_factor = 2 DCT rows so you must pass at least 16 scanlines on each call to jpeg_write_raw_data(), which is to say 16 actual sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed, so you must pass a total of 7*16 = 112 "scanlines". The last DCT block row of Y data is dummy, so it doesn't matter what you pass for it in the data arrays, but the scanlines count must total up to 112 so that all of the Cb and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data destination module suspends, jpeg_write_raw_data() will return 0. In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing: you cannot ask for rescaling or color quantization, for instance. More seriously, you must deal with the color space and sampling factors present in the incoming file. If your application only handles, say, 2h1v YCbCr data, you must check for and fail on other color spaces or other sampling factors. The library will not convert to a different color space for you.

To obtain raw data output, set cinfo->raw_data_out = TRUE before
jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to verify that the color space and sampling factors are ones you can handle. Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The decompression process is otherwise the same as usual.

jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a buffer of at least max_v_samp_factor*DCTSIZE scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, jpeg_read_raw_data() will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients
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It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do jpeg_read_header() as usual. But instead of calling jpeg_start_decompress() and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager's access_virt_barray method (see Memory management, below, and also read structure.txt's discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to jpeg_write_coefficients().

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the width_in_blocks and height_in_blocks fields of the component's comp_info entry.) This is also the data format expected by jpeg_write_coefficients().
When you are done using the virtual arrays, call jpeg_finish_decompress() to release the array storage and return the decompression object to an idle state; or just call jpeg_destroy() if you don't need to reuse the object.

If you use a suspending data source, jpeg_read_coefficients() will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call jpeg_read_coefficients() to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This framish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call jpeg_read_coefficients() after the last jpeg_finish_output() call. The arrays will be available for your use until you call jpeg_finish_decompress().

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by jpeg_read_coefficients(), or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, jpeg_write_coefficients() is substituted for jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is
* Create compression object
* Set all compression parameters as necessary
* Request virtual arrays if needed
* jpeg_write_coefficients()
* jpeg_finish_compress()
* Destroy or re-use compression object

jpeg_write_coefficients() is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to cinfo.num_components.

The virtual arrays need only have been requested, not realized, before jpeg_write_coefficients() is called. A side-effect of jpeg_write_coefficients() is to realize any virtual arrays that have been requested from the compression object's memory manager. Thus, when obtaining the virtual arrays from the compression object, you should fill the arrays after calling jpeg_write_coefficients(). The data is actually written out when you call jpeg_finish_compress(); jpeg_write_coefficients() only writes the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using jpeg_copy_critical_parameters(). This routine initializes all the compression parameters to default values (like jpeg_set_defaults()), then copies the critical information from a source decompression object.
The decompression object should have just been used to read the entire JPEG input file --- that is, it should be awaiting jpeg_finish_decompress().

jpeg_write_coefficients() marks all tables stored in the compression object as needing to be written to the output file (thus, it acts like jpeg_start_compress(cinfo, TRUE)). This is for safety's sake, to avoid emitting abbreviated JPEG files by accident. If you really want to emit an abbreviated JPEG file, call jpegSuppressTables(), or set the tables' individual sent_table flags, between calling jpeg_write_coefficients() and jpeg_finish_compress().

Progress monitoring
-------------------

Some applications may need to regain control from the JPEG library every so often. The typical use of this feature is to produce a percent-done bar or other progress display. (For a simple example, see cjpeg.c or djpeg.c.) Although you do get control back frequently during the data-transferring pass (the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes will occur inside jpeg_finish_compress or jpeg_start_decompress; those routines may take a long time to execute, and you don't get control back until they are done.

You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don't recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of jpeg_read_scanlines or jpeg_write_scanlines, so don't pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct jpeg_progress_mgr, fill in its progress_monitor field with a pointer to your callback routine, and set cinfo->progress to point to the struct. The callback will be called whenever cinfo->progress is non-NULL. (This pointer is set to NULL by jpeg_create_compress or jpeg_create_decompress; the library will not change it thereafter. So if you allocate dynamic storage for the progress struct, make sure it will live as long as the JPEG object does. Allocating from the JPEG memory manager with lifetime JPOOL_PERMANENT will work nicely.) You can use the same callback routine for both compression and decompression.

The jpeg_progress_mgr struct contains four fields which are set by the library:

long pass_counter; /* work units completed in this pass */
long pass_limit;/* total number of work units in this pass */
int completed_passes;/* passes completed so far */
int total_passes;/* total number of passes expected */

During any one pass, pass_counter increases from 0 up to (not including) pass_limit; the step size is usually but not necessarily 1. The pass_limit value may change from one pass to another. The expected total number of passes is in total_passes, and the number of passes already completed is in completed_passes. Thus the fraction of work completed may be estimated as completed_passes + (pass_counter/pass_limit)

--------------------------------------------------------
total_passes

ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it depends on the number of scans in the JPEG file, which isn't always known in advance. The computed fraction-of-work-done may jump suddenly (if the library discovers it has overestimated the number of scans) or even decrease (in the opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work estimate is likely to be completely unhelpful, because the library has no way to know how many output passes will be demanded of it. Currently, the library sets total_passes based on the assumption that there will be one more output pass if the input file end hasn't yet been read (jpeg_input_complete() isn't TRUE), but no more output passes if the file end has been reached when the output pass is started. This means that total_passes will rise as additional output passes are requested. If you have a way of determining the input file size, estimating progress based on the fraction of the file that's been read will probably be more useful than using the library's value.

Memory management

-------------------

This section covers some key facts about the JPEG library's built-in memory manager. For more info, please read structure.txt's section about the memory manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory manager to control allocation yourself (for example, if you don't want the library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG object is destroyed. Most data is allocated "per image" and is freed by jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is
ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);

Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object.
Use alloc_large instead of alloc_small for anything bigger than a few Kbytes.
There are also alloc_sarray and alloc_barray routines that automatically
build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the
image's width, but not on its height, because the library ordinarily works
with "strip" buffers that are as wide as the image but just a few rows high.
Some operating modes (e.g., two-pass color quantization) require full-image
buffers. Such buffers are treated as "virtual arrays": only the current strip
need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no
temporary files are used; virtual arrays are simply malloc()'d. Images bigger
than memory can be processed only if your system supports virtual memory.
The other memory manager back ends support temporary files of various flavors
and thus work in machines without virtual memory. They may also be useful on
Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for
its virtual arrays just big enough to stay within a "maximum memory" setting.
Your application can set this limit by setting cinfo->mem->max_memory_to_use
after creating the JPEG object. (Of course, there is still a minimum size for
the buffers, so the max-memory setting is effective only if it is bigger than
the minimum space needed.) If you allocate any large structures yourself, you
must allocate them before jpeg_start_compress() or jpeg_start_decompress() in
order to have them counted against the max memory limit. Also keep in mind
that space allocated with alloc_small() is ignored, on the assumption that
it's too small to be worth worrying about; so a reasonable safety margin
should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is
important to clean up the JPEG object properly to ensure that the temporary
files get deleted. (This is especially crucial with jmemdos.c, where the
"temporary files" may be extended-memory segments; if they are not freed,
DOS will require a reboot to recover the memory.) Thus, with these memory
managers, it's a good idea to provide a signal handler that will trap any
early exit from your program. The handler should call either jpeg_abort()
or jpeg_destroy() for any active JPEG objects. A handler is not needed with
jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either,
since the C library is supposed to take care of deleting files made with
tmpfile().

Memory usage
-----------
Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:
1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the MEM_STATS code in jmemmgr.c.

Library compile-time options
----------------------------
A number of compile-time options are available by modifying jmorecfg.h.
The JPEG standard provides for both the baseline 8-bit DCT process and a 12-bit DCT process. The IJG code supports 12-bit lossy JPEG if you define BITS_IN_JSAMPLE as 12 rather than 8. Note that this causes JSAMPLE to be larger than a char, so it affects the surrounding application's image data. The sample applications cjpeg and djpeg can support 12-bit mode only for PPM and GIF file formats; you must disable the other file formats to compile a 12-bit cjpeg or djpeg. (install.txt has more information about that.) At present, a 12-bit library can handle *only* 12-bit images, not both precisions. (If you need to include both 8- and 12-bit libraries in a single application, you could probably do it by defining NEED_SHORT_EXTERNAL_NAMES for just one of the copies. You'd have to access the 8-bit and 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that a 12-bit library always compresses in Huffman optimization mode, in order to generate valid Huffman tables. This is necessary because our default Huffman tables only cover 8-bit data. If you need to output 12-bit files in one pass, you'll have to supply suitable default Huffman tables. You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 12-bit.

The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int. You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right?
Portability considerations
-------------------------

The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that:
- char is at least 8 bits wide
- short is at least 16 bits wide
- int is at least 16 bits wide
- long is at least 32 bits wide

(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in jmorecfg.h. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg's select_file_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the
first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors
-----------------------------------

The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile jpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (e.g., about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.
TurboJPEG Java Wrapper
------------------------

The TurboJPEG shared library can optionally be built with a Java Native Interface wrapper, which allows the library to be loaded and used directly from Java applications. The Java front end for this is defined in several classes located under org/libjpegturbo/turbojpeg. The source code for these Java classes is licensed under a BSD-style license, so the files can be incorporated directly into both open source and proprietary projects without restriction. A Java archive (JAR) file containing these classes is also shipped with the "official" distribution packages of libjpeg-turbo.

TJExample.java, which should also be located in the same directory as this README file, demonstrates how to use the TurboJPEG Java API to compress and decompress JPEG images in memory.

Performance Pitfalls
---------------------

The TurboJPEG Java API defines several convenience methods that can allocate image buffers or instantiate classes to hold the result of compress, decompress, or transform operations. However, if you use these methods, then be mindful of the amount of new data you are creating on the heap. It may be necessary to manually invoke the garbage collector to prevent heap exhaustion or to prevent performance degradation. Background garbage collection can kill performance, particularly in a multi-threaded environment (Java pauses all threads when the GC runs.)

The TurboJPEG Java API always gives you the option of pre-allocating your own source and destination buffers, which allows you to re-use those buffers for compressing/decompressing multiple images. If the image sequence you are compressing or decompressing consists of images of the same size, then pre-allocating the buffers is recommended.

Installation Directory
-----------------------

If the TurboJPEG JNI library (libturbojpeg.so, libturbojpeg.jnilib, or turbojpeg.dll) is not installed under a system library directory or under a directory specified in LD_LIBRARY_PATH (Unix) or PATH (Windows), then you will need to pass an argument of -Djava.library.path={path_toJNI_library} to java.
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/README

No license file was found, but licenses were detected in source scan.

/*
 * jdcolext.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009, 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains output colorspace conversion routines.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdcolext.c

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/*
 * cdjpeg.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains common declarations for the sample applications
 * cjpeg and djpeg. It is NOT used by the core JPEG library.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/cdjpeg.h

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; For conditions of distribution and use, see copyright notice in jsimdext.inc
; for more details.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimdext.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimdext.asm
No license file was found, but licenses were detected in source scan.

/* jsimddct.h */
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* 
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
* */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jsimddct.h

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/* jcmarker.c */
*
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* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcmarker.c

No license file was found, but licenses were detected in source scan.
/*
 * jmemmgr.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the JPEG system-independent memory management
 * routines. This code is usable across a wide variety of machines; most
 * of the system dependencies have been isolated in a separate file.
 * The major functions provided here are:
 *   * pool-based allocation and freeing of memory;
 *   * policy decisions about how to divide available memory among the
 *     virtual arrays;
 *   * control logic for swapping virtual arrays between main memory and
 *     backing storage.
 * The separate system-dependent file provides the actual backing-storage
 * access code, and it contains the policy decision about how much total
 * main memory to use.
 * This file is system-dependent in the sense that some of its functions
 * are unnecessary in some systems. For example, if there is enough virtual
 * memory so that backing storage will never be used, much of the virtual
 * array control logic could be removed. (Of course, if you have that much
 * memory then you shouldn't care about a little bit of unused code...)
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jmemmgr.c
No license file was found, but licenses were detected in source scan.

/*
 * jidctflt.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * This implementation should be more accurate than either of the integer
 * IDCT implementations. However, it may not give the same results on all
 * machines because of differences in roundoff behavior. Speed will depend
 * on the hardware's floating point capacity.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
This implementation is based on Arai, Agui, and Nakajima's algorithm for scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in Japanese, but the algorithm is described in the Pennebaker & Mitchell JPEG textbook (see REFERENCES section in file README). The following code is based directly on figure 4-8 in P&M.

While an 8-point DCT cannot be done in less than 11 multiplies, it is possible to arrange the computation so that many of the multiplies are simple scalings of the final outputs. These multiplies can then be folded into the multiplications or divisions by the JPEG quantization table entries. The AA&N method leaves only 5 multiplies and 29 adds to be done in the DCT itself.

The primary disadvantage of this method is that with a fixed-point implementation, accuracy is lost due to imprecise representation of the scaled quantization values. However, that problem does not arise if we use floating point arithmetic.

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* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/tjbench.c
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/tjunittest.c
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/turbojpeg.c
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/turbojpeg.h
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/TJBench.java
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/*
 * jsimd_none.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 * This file contains stubs for when there is no SIMD support available.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jsimd_none.c
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libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

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/*
* jsimd_arm.c
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
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*
* This file contains the interface between the "normal" portions
* of the library and the SIMD implementations when running on
* ARM architecture.
*
* Based on the stubs from 'jsimd_none.c'
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimd_arm.c

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libjpeg-turbo note: This image was extracted from the 8-bit nightshot_iso_100
image. The original can be downloaded at the link below.

The New Image Compression Test Set - Jan 2008
http://www.imagecompression.info/test_images

The images historically used for compression research (lena, barbra, pepper etc...) have outlived their useful life and its about time they become a part of history only. They are too small, come from data sources too old and are available in only 8-bit precision.

These images have been carefully selected to aid in image compression algorithm research and evaluation. These are photographic images chosen to come from a wide variety of sources and each one picked to stress different aspects of algorithms. Images are available in 8-bit, 16-bit and 16-bit linear variations, RGB and gray.

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Acknowledgments: A lot of people contributed a lot of time and effort in making this test set possible. Thanks to everyone who voiced their opinion in any of the discussions online. Thanks to Axel Becker, Thomas Richter and Niels Frhling for their extensive help in picking images, running all the various tests etc... Thanks to Pete Fraser, Tony Story, Wayne J. Cosshall, David Coffin, Bruce Lindbloom and raw.fotosite.pl for the images which make up this set.

Sachin Garg [India]
sachingarg@c10n.info


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* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/testimages/nightshot_iso_100.txt

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 * jfdctfst.c
 *
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 *
 * This file contains a fast, not so accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 * The primary disadvantage of this method is that with fixed-point math,
 * accuracy is lost due to imprecise representation of the scaled
 * quantization values. The smaller the quantization table entry, the less
 * precise the scaled value, so this implementation does worse with high-
 * quality-setting files than with low-quality ones.
 */
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* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jfdctfst.c

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 *
 * This file contains routines to write output images in RLE format.
 * The Utah Raster Toolkit library is required (version 3.1 or later).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * Based on code contributed by Mike Lijewski,
 * with updates from Robert Hutchinson.
 */

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archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdmerss2-64.asm
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* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jiss2flt-64.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdsamss2-64.asm

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 *
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 *
 * This file contains routines to write output images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The PBMPLUS library is NOT required to compile this software
 * (but it is highly useful as a set of PPM image manipulation programs).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 */
1.1444 spring-web-mvc 5.1.9.RELEASE

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 */

/**
 * A contract for inspecting and potentially modifying request data values such
 * as URL query parameters or form field values before they are rendered by a
 * view or before a redirect.
 *
 * Implementations may use this contract for example as part of a solution
 * to provide data integrity, confidentiality, protection against cross-site
 * request forgery (CSRF), and others or for other tasks such as automatically
 * adding a hidden field to all forms and URLs.
 *
 * View technologies that support this contract can obtain an instance to
 * delegate to via {@link RequestContext#getRequestDataValueProcessor()}.
 *
 * @author Rossen Stoyanchev
 * @since 3.1
 */

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/**
 * XSLT-driven View that allows for response context to be rendered as the
 * result of an XSLT transformation.
 *
 * <p>The XSLT Source object is supplied as a parameter in the model and then
 * {@[link #locateSource detected]} during response rendering. Users can either specify
 * a specific entry in the model via the {@[link #setSourceKey sourceKey] property or
 * have Spring locate the Source object. This class also provides basic conversion
 * of objects into Source implementations. See {@[link #getSourceTypes() here]}
 * for more details.
 *
 * <p>All model parameters are passed to the XSLT Transformer as parameters.
 * In addition the user can configure {@[link #setOutputProperties output properties]}
 * to be passed to the Transformer.
 *
 * @author Rob Harrop
 * @author Juergen Hoeller
 * @since 2.0
 */

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src/base/md5.c
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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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1.1460 josharian-native v0.0.0-20200817173448-b6b71def0850

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1.1461 pflag v1.0.5

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1.1462 perl-storable 3.11-3.el8

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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

ppport.h - Perl/Pollution/Portability version 3.40

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help

--version show version

--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program      use diff program and options

--compat-version=version provide compatibility with Perl version

--cplusplus accept C++ comments

--quiet don't output anything except fatal errors

--nodiag don't show diagnostics

--nohints don't show hints

--nochanges don't suggest changes

--nofilter don't filter input files

--strip strip all script and doc functionality
           from ppport.h

--list-provided list provided API

--list-unsupported list unsupported API

--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl
installations back to 5.003, and has been tested up to 5.20.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if
any changes are suggested. This requires a working diff program
to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with
the given suffix that contains the suggested changes. This does
not require any external programs. Note that this does not
automagically add a dot between the original filename and the
suffix. If you want the dot, you have to include it in the option
argument.
If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

=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.
Strip all script and documentation functionality from `ppport.h`. This reduces the size of `ppport.h` dramatically and may be useful if you want to include `ppport.h` in smaller modules without increasing their distribution size too much.

The stripped `ppport.h` will have a C `<unstrip>` option that allows you to undo the stripping, but only if an appropriate C `<Devel::PPPort>` module is installed.

Lists the API elements for which compatibility is provided by `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 `ppport.h` and below which version of Perl they probably won't be available or work.

Show portability information for API elements matching `<name>`. If `<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.

=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_PLParser_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>
<td>NEED_caller_cx_GLOBAL</td>
</tr>
<tr>
<td>croak-xs_usage()</td>
<td>NEED_croak-xs_usage</td>
<td>NEED_croak-xs_usage_GLOBAL</td>
</tr>
<tr>
<td>die_sv()</td>
<td>NEED_die_sv</td>
<td>NEED_die_sv_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>
</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.
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
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 $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
";
  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 "%.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||p
AvFILL||
BhkDISABLE||5.024000
BhkENABLE||5.024000
BhkENTRY_set||5.024000
BhkENTRY||
BhkFLAGS||
CALL_BLOCK_HOOKS||
CLASS||n
CPERL.scope|5.005000||p

Open Source Used In APIC-SE-BATMAN 2.1.1d 15828
NVff5.006001
NVgf5.006001
Newxc5.009003
Newxz5.009003
Newx5.009003
Nullav
Nullch
Nullcv
Nullhv
Nullsv
OP_CLASS5.013007
OP_DESC5.007003
OP_NAME5.007003
OP_TYPE_IS_OR_WAS5.019010
OP_TYPE_IS5.019007
ORIGMARK
OpHAS_SIBLING5.021007
OpLASTSIB_set5.021011
OpMAYBESIB_set5.021011
OpMORESIB_set5.021011
OpSIBLING5.021007
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
PAD_SET_CUR_NOSAVE
PAD_SET_CUR
PAD_SV
PERLIO_FUNCS_CAST5.009003
PERLIO_FUNCS_DECL5.009003
PERL_ABS5.008001
PERL_ARGS_ASSERT_CROAK_XS_USAGE
PERL_BCDVERSION5.024000
PERL_GCC_BRACE_GROUPS_FORBIDDEN5.008001
PERL_HASH5.003070
PERL_INT_MAX5.003070
PERL_INT_MIN5.003070
PERL_LONG_MAX5.003070
PERL_LONG_MIN5.003070
Open Source Used In APIC-SE-BATMAN 2.1.1d 15834
PerlIO_close
PerlIO_context_layers
PerlIO_eof
PerlIO_error
PerlIO_fileno
PerlIO_fill
PerlIO_flush
PerlIO_get_base
PerlIO_get_buffer
PerlIO_get_errno
PerlIO_get_errno
PerlIO_get_ptrcheck
PerlIO_getptr
PerlIO_read
PerlIO_restore_errno
PerlIO_save_errno
PerlIO_seek
PerlIO_set_base
PerlIO_set_buffer
PerlIO_set_count
PerlIO_set_base
PerlIO_set_ptrcheck
PerlIO_setbuffer
PerlIO_set_err
PerlIO_set_ptr
PerlIO_setread
PerlIO_set_EOF
PerlIO_set_write
PerlIO_setcnt
PerlIO_setoffset
PerlIO_setreadcheck
PerlIO_set_writecheck
PerlIO_stderr
PerlIO_stdin
PerlIO_stdout
PerlIO_tell
PerlIO_unread
PerlIO_write
Perl_signbit
PoisonFree
PoisonNew
PoisonWith
READ_XDIGIT
RESTORE_LC_NUMERIC
RESTORE_LC_NUMERIC
RETVAL
Renew
SAVECLEARSV
SAVECOMPPAD
SAVEPADSV
SAVETMPS
SAVE_DEFSV
SPAGAIN
START_EXTERN_C
START_MY_CXT
STMT_END
STMT_START
STORE_LC_NUMERIC_FORCE_TO_UNDERLYING
STORE_LC_NUMERIC_SET_TO_NEEDED
STR_WITH_LEN
ST||
SV_CONST_RETURN[5.009003]||p
SV_COW_DROP_PV[5.008001]||p
SV_COW_SHARED_HASH_KEYS[5.009005]||p
SV_GMAGIC[5.007002]||p
SV_HAS_TRAILING_NUL[5.009004]||p
SV_IMMEDIATE_UNREF[5.007001]||p
SV_MUTABLE_RETURN[5.009003]||p
SV_NOSTEAL[5.009002]||p
SV_SMAGIC[5.009003]||p
SV_UTF8_NO_ENCODING[5.008001]||p
SVfARG[5.009005]||p
SVf_UTF8[5.006000]||p
SVf[5.006000]||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
SvIV_set
SvIVx
SvIV
SvIsCOW_shared_hash
SvIsCOW
SvLEN_set
SvLEN
SvLOCK
SvMAGIC_set
SvNIOK_off
SvNIOKp
SvNIOK
SvNOK_off
SvNOK_only
SvNOK_on
SvNOKp
SvNVX
SvNV_nomg
SvNV_set
SvNVx
SvNV
SvOK
SvOOK_offset
SvOOK
SvPOK_off
SvPOK_only_UTF8
SvPOK_only
SvPOK_on
SvPOKp
SvPVX_const
SvPVX_mutable
SvPOK
SvPVX
SvPV_const
SvPV_flags_const_nolen
SvPV_flags_const
SvPV_flags_mutable
SvPV_flags
SvPV_force_flags_mutable
SvPV_force_nolen
SvPV_force_flags
SvPV_force_mutable
SvPV_force_nolen

Open Source Used In APIC-SE-BATMAN 2.1.1d 15838
SvSetMagicSV[5.004000]
SvSetSV_nosteal[5.004000]
SvSetSV||
SvTAINTED_off[5.004000]
SvTAINTED_on[5.004000]
SvTAINTED[5.004000]
SvTAINT||
SvTHINKFIRST||
SvTRUE_nomg[5.013006]
SvTRUE||
SvTYPE||
SvUNLOCK[5.007003]
SvUOK[5.007001][5.006000]
p
SvUPGRADE||
SvUTF8_off[5.006000]
SvUTF8_on[5.006000]
SvUTF8[5.006000]
SvUVXx[5.004000]
p
SvUVX[5.004000]
p
SvUV_nomg[5.009001]
p
SvUV_set[5.009003]
p
SvUVx[5.004000]
p
SvUV[5.004000]
p
SvVOK[5.008001]
SvVSTRING_mg[5.009004]
p
THIS||
UNDERBAR[5.009002]
p
UTF8SKIP[5.006000]
UTF8_MAXBYTES[5.009002]
p
UVCHR_SKIP[5.022000]
UVSIZE[5.006000]
p
UVTYPE[5.006000]
p
UVXf[5.007001]
p
UVof[5.006000]
p
UVuf[5.006000]
p
UVxf[5.006000]
p
WARN_ALL[5.006000]
p
WARN_AMBIGUOUS[5.006000]
p
WARN_ASSERTIONS[5.024000]
p
WARN_BAREWORD[5.006000]
p
WARN_CLOSED[5.006000]
p
WARN_CLOSURE[5.006000]
p
WARN_DEBUGGING[5.006000]
p
WARN_DEPRECATED[5.006000]
p
WARN_DIGIT[5.006000]
p
WARN_EXEC[5.006000]
p
WARN_EXITING[5.006000]
p
WARN_GLOB[5.006000]
p
XSRETURN_IV
XSRETURN_NO
XSRETURN_NV
XSRETURN_PV
XSRETURN_UNDEF
XSRETURN_UV
XSRETURN_YES
XSRETURN
XST_mIV
XST_mNO
XST_mNV
XST_mPV
XST_mUNDEF
XST_mUV
XS_APIVERSION_BOOTCHECK
XS_EXTERNAL
XS_INTERNAL
XS_VERSION_BOOTCHECK
XS_VERSION
XSprePUSH
XS
XopDISABLE
XopENABLE
XopENTRYCUSTOM
XopENTRY_set
XopENTRY
XopFLAGS
ZeroD
Zero
_aMY_CXT
_add_range_to_invlist
_append_range_to_invlist
_core_swash_init
_get_encoding
_get_regclass_nonbitmap_data
_get_swash_invlist
_invlistEQ
_invlist_array_init
_invlist_contains_cp
_invlist_dump
_invlist_intersection_maybe_complement_2nd
_invlist_intersection
_invlist_invert
_invlist_len
_invlist_populate_swatch
_invlist_search
_invlist_subtract
Open Source Used In APIC-SE-BATMAN 2.1.1d 15843
clone_params_new||n
closest_cop||
cntrl_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|5.024000|
cophh_store_pvn|5.013007|
cophh_store_pvs|5.013007|
cophh_store_pv|5.013007|
cophh_store_sv|5.013007|
core_prototype||
coresub_op||
cr_textfilter||
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|
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
dXCTP|5.009002||p
dXSARGS||
dXSI32||
dXSTARG|5.006000||p
deb_curcv||
deb_nocontext||vn
deb_stack_all||
deb_stack_n||
debop|5.005000|
debprofdump|5.005000|
debprof||
debstackkprs|5.007003|
debstack|5.007003|
debug_start_match||
deb|5.007003|v
defelem_target||
del_sv||
delete_eval_scope||
delimcpy|5.004000|n
deprecate_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|||
do_ncmp|||
do_oddball|||
do_op_dump||5.006000|
do_open6|||
do_open9||5.006000|
do_open_raw|||
do_opens||5.007001|
do_open||5.003070|
do_pkop_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|||
doopen_pm|||
doopen_pm|||
doopen_pm|||
doineliner|||
doopen_pm|||
doopen_pm|||

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Open Source Used In APIC-SE-BATMAN 2.1.1d 15849
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

dump_vindent[5.006000]
dumpuntil

dup_attrlist

dump_attrlist

edit_distance

evaluate_cop_io

eval_pv[5.006000]
eval_sv[5.006000]
exec_failed

evalue

expect_number

fbm_compile[5.005000]
fbm_instr[5.005000]
feature_is_enabled

filter_add

filter_del

filter_gets

filter_read


get_c_backtrace
get_context[5.006000]
get_cvn_flags
get_cvs[5.011000]
get_cv[5.006000]
get_db_sub
get_debug_opts
get_hash_seed
get_hv[5.006000]
get_invlist_iter_addr
get_invlist_offset_addr
get_invlist_previous_index_addr
get_mstats
get_no_modify
get_num
get_op_descs[5.005000]
ge_t_op_names[5.005000]
geq_opargs
get_ppaddr[5.006000]
geq_re_arg
get_sv[5.006000]
geq_vtbl[5.005030]
getcwd_sv[5.007002]
getenv_len
glob_2number
glob_assign_glob
gp_dup
gp_free
grok_atoUV
grok_bin[5.007003]
grok_bslash_N
grok_bslash_c
grok_bslash_o
grok_bslash_x
grok_hex[5.007003]
grok_infnan[5.021004]
grok_number_flags[5.021002]
grok_number[5.007002]
grok_numeric_radix[5.007002]
grok_oct[5.007003]
group_end
gv_AVadd
gv_HVadd
gv_IOadd
gv_SVadd
gv_add_by_type[5.011000]
gv_autoload4[5.004000]
invlist_highest
invlist_is_iterating
invlist_iterfinish
invlist_iterinit
invlist_terminate
invlist_previous_index
invlist_replace_list_destroys_src
invlist_set_len
invlist_set_previous_index
invlist_trim
invoke_exception_hook
io_close
isALNUMC
isALNUM_lazy
isALPHANUMERIC
isALPHA
isASCII
isBLANK
isCNTRL
isDIGIT
isFOO_lc
isFOO_utf8_lc
isGCB
isGRAPH
isIDCONT
isIDFIRST_lazy
isIDFIRST
isLB
isLOWER
isOCTAL
isPRINT
isPSXSPC
isPUNCT
isSB
isSPACE
isUPPER
isUTF8_CHAR
isWB
isWORDCHAR
isXDIGIT
is_an_int
is_ascii_string
is_handle_constructor
is_invariant_string
is_lvalue_sub
is_safe_syscall
is_ssc_worth_it
is_uni_alnum_lc|5.006000|
is_uni_alnumc_lc|5.017007|
is_uni_alnumc|5.017007|
is_uni_alnum|5.006000|
is_uni_alpha_lc|5.006000|
is_uni_alpha|5.006000|
is_uni_ascii_lc|5.006000|
is_uni_ascii|5.006000|
is_uni_blank_lc|5.017002|
is_uni_blank|5.017002|
is_uni_cntrl_lc|5.006000|
is_uni_cntrl|5.006000|
is_uni_digit_lc|5.006000|
is_uni_digit|5.006000|
is_uni_graph_lc|5.006000|
is_uni_graph|5.006000|
is_uni_idfirst_lc|5.006000|
is_uni_idfirst|5.006000|
is_uni_lower_lc|5.006000|
is_uni_lower|5.006000|
is_uni_print_lc|5.006000|
is_uni_print|5.006000|
is_uni_punct_lc|5.006000|
is_uni_punct|5.006000|
is_uni_space_lc|5.006000|
is_uni_space|5.006000|
is_uni_upper_lc|5.006000|
is_uni_upper|5.006000|
is_uni_xdigit_lc|5.006000|
is_uni_xdigit|5.006000|
is_utf8_alnumc|5.017007|
is_utf8_alnum|5.006000|
is_utf8_alpha|5.006000|
is_utf8_ascii|5.006000|
is_utf8_blank|5.017002|
is_utf8_char_buf|5.015008|
is_utf8_char|5.006000|
is_utf8_cntrl|5.006000|
is_utf8_common|
is_utf8_digit|5.006000|
is_utf8_graph|5.006000|
is_utf8_idcont|5.008000|
is_utf8_idfirst|5.006000|
is_utf8_lower|5.006000|
is_utf8_mark|5.006000|
is_utf8_perl_space|5.011001|
is_utf8_perl_word|5.011001|
is_utf8posix_digit|5.011001|
mXPUSHi|5.009002|p
mXPUSHn|5.009002|p
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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][^*]*\*+)* / | /[^\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_\(/) {

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my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n
}
undef $define;
}

$define = [$1, $2] if m{^\s*$#s*define\s+\((?:[^(]*)?)\)?s+\(*\)$};

if ($function) {
  if (/^$/) {
    if (exists $API{$function->[0]}) {
      my @n = find_api($function->[1]);
push @{$depends{$function->[0]}}, @n if @n
    }
    undef $function;
  } else {
    $function->[1] .= $_;
  }
}

$function = [$1, ] if m{^DPPP_\(my_\(\w+\)\)$};

$replace     = $1 if m{^\s*$rccs\s+Replace:\s+s+\(\d+\)\s+rcc\s+s*$};
$replace{$2} = $1 if $replace and m{^\s*$#s*define\s+\((?:[^(]*)?)\)?s+\(\w+\)$};
$replace{$2} = $1 if m{^\s*$#s*define\s+\((?:[^(]*)?)\)?s+\(\w+\).*$rccs\s+Replace\s+s+$rcc \s*$};
$replace{$1} = $2 if m{^\s*$rccs\s+Replace\s+\(\w+\) with \(\w+\)\s+rcc\s+s*$};

if (m{^\s*$rccs\s+\(\w+\(\w+\(\w+\))\)?s+\(\w+\)\s+on\s+(\w+\(\w+\(\w+\))\)?s+\(\w+\)\s+$rcc\s+s*$}) {
  my @deps = map { s/\s+///g; $._ } split //, $3;
  my $d;
  for $d (map { s/\s+///g; $._ } split //, $1) {
push @{$depends{$d}}, @deps;
  }
}

$need{$1} = 1 if m{^\s*$#s*defined\(\NEED_\(\w+\)\)?s+\(\w+\)\)?s+\(\w+\)\)?s+\(\w+\)\)?s+\(\w+\)\)?s+\(\w+\)\)?s+\(\w+\)\)?$};

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(', ', @{$starts[$f]})', '. $start{todo}'}\n" if exists $starts{$f};
        print "WARNING: $warning{todo}\n" if exists $warnings{
            print "$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;
}
if (@ARGV) {
    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) {

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unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;
my $func;
for $func (keys %API) {
my $match = $func;
$match .= "|$revreplace{$func}" if exists $revreplace{$func};
if ($c =~ /\b(?:Perl_)?($match)\b/) {
$file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
$file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
if (exists $API{$func}{provided}) {
$file{uses_provided}{$func}++;
if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
$file{uses}{$func}++;
my @deps = rec_depend($func);
if (@deps) {
$file{uses_deps}{$func} = \@deps;
for (@deps) {
$file{uses}{$_} = 0 unless exists $file{uses}{$_};
}
}

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for ($func, @deps) {
$file{needs}{$_} = 'static' if exists $need{$_};
}
}
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
if ($c =~ /\b$func\b/) {
$file{uses_todo}{$func}++;
}
}
}
}
while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;

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info("=== Analyzing $filename ===");

my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $Warnings = 0;

for $func (sort keys %{$file{uses_Perl}}) {
    if (exists $API{$func}{'varargs'}) {
        unless (exists $API{$func}{'nothxarg'}) {
            my $changes = ($c =~ s/\bPerl_$func\s*(?!aTHX_?)(?!aTHX\?)/$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*\(/$func$1\)/g);
    }
}

for $func (sort keys %{$file{uses_replace}}) {
    warning("Uses $func instead of $replace{$func}");
    $file{changes} += ($c =~ s/\b$func\b/$replace{$func}/g);
}

for $func (sort keys %{$file{uses_provided}}) {
    if ($file{uses}{$func}) {
        if (exists $file{uses_deps}{$func}) {
            diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
        } else {
            diag("Uses $func");
        }
    }
    $warnings += hint($func);
}

unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ",
            format_version($API{$func}{'todo'}), ", even with 'sppport\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.*$LF//mg);
    }
  } if ($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 {
        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 {
            next
          }
        }
      }
    }
  }
}
else {
    diag("File needs $func, adding static request");
}
$pp .= "#define NEED_$func$suffix"
;
}

if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+?)/$pp/ms)) {
    $pp = "",
    $file{changes}++;
}

unless ($file{has_inc_ppport}) {
    diag("Needs to include '$ppport'");
    $pp .= qq(#include "$ppport"
)
}

if ($pp) {
    $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+?)/$1$pp/ms)
    || ($c =~ s/^\((?=-?\$HS*#\$HS*include.*\Q$ppport\E)/$pp/m)
    || ($c =~ s/^\((?=-?\$HS*#\$HS*include.*XSUB.*\Q$ppport\E)/$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.*?$/L\//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: $!");
                    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 @_\n; 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{$func}}; ) @{$depends{$func}};

sub parse_version
{
my $ver = shift;

if ($ver =~ /^(\d+).\d+).\d+$/) {
    return ($1, $2, $3);
} elsif ($ver !~ /^\d+\d+\d+$/) {
    die "cannot parse version '$ver\n"; }

$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\n"; }
    }

return ($r, $v, $s);
}

sub format_version
{
    my $ver = shift;

    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\d+).\d+).\d+$/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "invalid version '$ver\n"; }
        }

        $s /= 10;

        $ver = sprintf "%.03d", $r, $v;
        $s > 0 and $ver .= sprintf "_%02d", $s;

        return $ver;
    }

    return sprintf "%.0d%.0d", $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
{
}
open OUT, ">$0" or die "cannot strip $0: $!
";
print OUT "$pl$c
";
exit 0;
}

__DATA__
*/

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Storable 3.05c
   Copyright (c) 1995-2000, Raphael Manfredi
   Copyright (c) 2001-2004, Larry Wall
   Copyright (c) 2016,2017 cPanel Inc

------------------------------------------------------------------------
This program is free software; you can redistribute it and/or modify
it under the same terms as Perl 5 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.  See the
Perl 5 License schemes for more details.
------------------------------------------------------------------------

+=======================================================================
+ Storable is distributed as a module, but is also part of the official
+ Perl core distribution, as of perl 5.8.
+ Maintenance is partially done by the perl5-porters, and for cperl by cPanel.
+ We thank Raphael Manfredi for providing us with this very useful module.
+=======================================================================

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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    Jarkko Hietaniemi <jhi@iki.fi> (AGAIN, as perl 5.7.0 Pumpkin!)
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JD Lightsey <jd@cpanel.net>

for their contributions.

A Japanese translation of this man page is available at the Japanized Perl Resources Project <https://sourceforge.jp/projects/perldocjp/>.

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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---

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):
No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1154957947_1618910848.21/0/perl-Storable-3.11-3.el8-1.src.rpm-cosi-expand-archive-Z0gadf7l/perl-Storable.spec
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1154957947_1618910848.21/0/perl-Storable-3.11-3.el8-1.src.rpm-cosi-expand-archive-Z0gadf7l/Storable-3.11_repackaged.tar.gz-cosi-expand-archive-ye52jB7o/Storable-3.11/t/forgive.t
1.1463 attr 2.4.48-3.el8atomix1

1.1463.1 Available under license:

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

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```go
package main

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
}
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
}

// 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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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

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BSON library for Go

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mgo - MongoDB driver for Go
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Go support for Protocol Buffers - Google's data interchange format

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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{ 
}
type LicenseManager struct {
  mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
  m := &LicenseManager{
    m.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,
}

body.Res.Returnval = licenseInfo(req.LicenseKey, 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{
}
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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=head1 NAME

B::Lint::Pluggable - Adds plugin support to B::Lint

=head1 DESCRIPTION

This module was incorporated directly into L<B::Lint> and no longer does anything. If your L<B::Lint> does not have plugin support, upgrade it.

=head1 SEE ALSO

L<B::Lint>

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B-Lint-Pluggable
B::Lint::Pluggable used to add plugin support to B::Lint. That has since been directly integrated. This module is now obsolete.

INSTALLATION

To install this module, run the following commands. But don't bother. It doesn't do anything.

    perl Makefile.PL
    make
    make test
    make install

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Ty Coon, President of Vice

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<td>Main Mesa code</td>
<td>src/mesa/</td>
<td>MIT</td>
</tr>
<tr>
<td>Device drivers</td>
<td>src/mesa/drivers/*</td>
<td>MIT, generally</td>
</tr>
</tbody>
</table>
Gallium code src/gallium/ MIT

Ext headers GL/glext.h Khronos
GL/glxext.h Khronos
GL/wglext.h Khronos
KHR/khrplatform.h Khronos

*****************************************************************************
----
include/GL/gl.h :
Mesa 3-D graphics library

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----
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include/GL/glxext.h
include/GL/wglext.h :

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  jar/io/netty/resolver/SimpleNameResolver.java
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  jar/io/netty/resolver/NoopAddressResolver.java
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  jar/io/netty/resolver/NameResolver.java
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  jar/io/netty/resolver/AddressResolverGroup.java
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* /opt/ws_local/PERMITS_SQL/1068233887_1594324468.34/0/netty-resolver-4-1-50-final-sources-1.jar/io/netty/resolver/AddressResolver.java
* /opt/ws_local/PERMITS_SQL/1068233887_1594324468.34/0/netty-resolver-4-1-50-final-sources-1.jar/io/netty/resolver/InetSocketAddressResolver.java
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1.1481 swagger 1.5.20

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SourceFileLicense.javaRuntimeVisibleAnnotationsLjava/lang/annotation/Target;value"Ljava/lang/annotation/Element
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ejava/lang/Objectjava/lang/annotation/Annotation&
```

1.1482 perl-pod-simple 3.28 4.el7

1.1483 jaeger-lib v2.4.0+incompatible

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---

1.1494 perl-io-compress 2.081-1.el8

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=back

=head1 EXIT CODES

If all your tests passed, Test::Builder will exit with zero (which is normal). If anything failed it will exit with how many failed. If you run less (or more) tests than you planned, the missing (or extras) will be considered failures. If no tests were ever run Test::Builder will throw a warning and exit with 255. If the test died, even after having successfully completed all its tests, it will still be considered a failure and will exit with 255.

So the exit codes are...

0       all tests successful

255 test died
any other number how many failed (including missing or extras)

If you fail more than 254 tests, it will be reported as 254.

B<NOTE> This behavior may go away in future versions.

=head1 CAVEATS and NOTES

=over 4

=item Backwards compatibility

Test::More works with Perls as old as 5.004_05.

=item Overloaded objects

String overloaded objects are compared B<as strings>. This prevents Test::More from piercing an object's interface allowing better blackbox testing. So if a function starts returning overloaded objects instead of bare strings your tests won't notice the difference. This is good.

However, it does mean that functions like is_deeply() cannot be used to test the internals of string overloaded objects. In this case I would suggest Test::Deep which contains more flexible testing functions for complex data structures.

=item Threads

Test::More will only be aware of threads if "use threads" has been done I<before> Test::More is loaded. This is ok:

    use threads;
    use Test::More;

This may cause problems:

    use Test::More
    use threads;

=item Test::Harness upgrade

no_plan and todo depend on new Test::Harness features and fixes. If you're going to distribute tests that use no_plan or todo your
end-users will have to upgrade Test::Harness to the latest one on CPAN. If you avoid no_plan and TODO tests, the stock Test::Harness will work fine.

Installing Test::More should also upgrade Test::Harness.

=head1 HISTORY

This is a case of convergent evolution with Joshua Pritikin's Test module. I was largely unaware of its existence when I'd first written my own ok() routines. This module exists because I can't figure out how to easily wedge test names into Test's interface (along with a few other problems).

The goal here is to have a testing utility that's simple to learn, quick to use and difficult to trip yourself up with while still providing more flexibility than the existing Test.pm. As such, the names of the most common routines are kept tiny, special cases and magic side-effects are kept to a minimum. WYSIWYG.

=head1 SEE ALSO

L<Test::Simple> if all this confuses you and you just want to write some tests. You can upgrade to Test::More later (it's forward compatible).

L<Test> is the old testing module. Its main benefit is that it has been distributed with Perl since 5.004_05.

L<Test::Harness> for details on how your test results are interpreted by Perl.

L<Test::Differences> for more ways to test complex data structures. And it plays well with Test::More.

L<Test::Class> is like XUnit but more perlish.

L<Test::Deep> gives you more powerful complex data structure testing.

L<Test::Unit> is XUnit style testing.

L<Test::Inline> shows the idea of embedded testing.

L<Bundle::Test> installs a whole bunch of useful test modules.
AUTHORS

Michael G Schwern <schwern@pobox.com> with much inspiration from Joshua Pritikin's Test module and lots of help from Barrie Slaymaker, Tony Bowden, blackstar.co.uk, chromatic, Fergal Daly and the perl-qa gang.

BUGS

See F<http://rt.cpan.org> to report and view bugs.

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See F<http://www.perl.com/perl/misc/Artistic.html>

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NAME

IO::Uncompress::AnyInflate - Uncompress zlib-based (zip, gzip) file/buffer

SYNOPSIS

use IO::Uncompress::AnyInflate qw(anyinflate $AnyInflateError) ;

my $status = anyinflate $input => $output [,OPTS]
or die "anyinflate failed: $AnyInflateError\n";

my $z = new IO::Uncompress::AnyInflate $input [OPTS]
or die "anyinflate failed: $AnyInflateError\n";

$status = $z->read($buffer)
$status = $z->read($buffer, $length)
$status = $z->read($buffer, $length, $offset)
$line = $z->getline()
$char = $z->getc()
$char = $z->ungetc()
$char = $z->opened()

$status = $z->inflateSync()
$data = $z->trailingData()
$status = $z->nextStream()
$data = $z->getHeaderInfo()
$z->tell()
$z->seek($position, $whence)
$z->binmode()
$z->fileno()
$z->eof()
$z->close()

$AnyInflateError ;

# IO::File mode

<$z>
read($z, $buffer);
read($z, $buffer, $length);
read($z, $buffer, $length, $offset);
tell($z)
seek($z, $position, $whence)
binmode($z)
fileno($z)
eof($z)
close($z)

=head1 DESCRIPTION

This module provides a Perl interface that allows the reading of files/buffers that have been compressed in a number of formats that use the zlib compression library.

The formats supported are

=over 5

=item RFC 1950

=item RFC 1951 (optionally)

=item gzip (RFC 1952)
The module will auto-detect which, if any, of the supported compression formats is being used.

=head1 Functional Interface

A top-level function, C<anyinflate>, is provided to carry out "one-shot" uncompression between buffers and/or files. For finer control over the uncompression process, see the L</"OO Interface"> section.

use IO::Uncompress::AnyInflate qw(anyinflate $AnyInflateError);

anyinflate $input_filename_or_reference => $output_filename_or_reference [,OPTS]
or die "anyinflate failed: $AnyInflateError\n";

The functional interface needs Perl5.005 or better.

=head2 anyinflate $input_filename_or_reference => $output_filename_or_reference [, OPTS]

C<anyinflate> expects at least two parameters, C<$input_filename_or_reference> and C<$output_filename_or_reference>.

=head3 The C<$input_filename_or_reference> parameter

The parameter, C<$input_filename_or_reference>, is used to define the source of the compressed data.

It can take one of the following forms:

=over 5

=item A filename

If the C<$input_filename_or_reference> parameter is a simple scalar, it is assumed to be a filename. This file will be opened for reading and the input data will be read from it.

=item A filehandle

If the C<$input_filename_or_reference> parameter is a filehandle, the input data will be read from it. The string '-' can be used as an alias for standard input.

=item A scalar reference
If $input_filename_or_reference$ is a scalar reference, the input data will be read from $input_filename_or_reference$.

=item An array reference

If $input_filename_or_reference$ is an array reference, each element in the array must be a filename.

The input data will be read from each file in turn.

The complete array will be walked to ensure that it only contains valid filenames before any data is uncompressed.

=item An Input FileGlob string

If $input_filename_or_reference$ is a string that is delimited by the characters "<" and ">" $input_filename_or_reference$ will assume that it is an Input fileglob string. The input is the list of files that match the fileglob.

See L<File::GlobMapper/File::GlobMapper> for more details.

=back

If the $input_filename_or_reference$ parameter is any other type, C<undef> will be returned.

=head3 The $output_filename_or_reference$ parameter

The parameter $output_filename_or_reference$ is used to control the destination of the uncompressed data. This parameter can take one of these forms.

=over 5

=item A filename

If the $output_filename_or_reference$ parameter is a simple scalar, it is assumed to be a filename. This file will be opened for writing and the uncompressed data will be written to it.

=item A filehandle

If the $output_filename_or_reference$ parameter is a filehandle, the uncompressed data will be written to it. The string '-' can be used as an alias for standard output.
=item A scalar reference

If C<$output_filename_or_reference> is a scalar reference, the uncompressed data will be stored in C<$output_filename_or_reference>.

=back

=item An Array Reference

If C<$output_filename_or_reference> is an array reference, the uncompressed data will be pushed onto the array.

=item An Output FileGlob

If C<$output_filename_or_reference> is a string that is delimited by the characters "<" and ">" C<anyinflate> will assume that it is an I<output fileglob string>. The output is the list of files that match the fileglob.

When C<$output_filename_or_reference> is a fileglob string, C<$input_filename_or_reference> must also be a fileglob string. Anything else is an error.

See L<File::GlobMapper|File::GlobMapper> for more details.

=back

If the C<$output_filename_or_reference> parameter is any other type, C<undef> will be returned.

=head2 Notes

When C<$input_filename_or_reference> maps to multiple compressed files/buffers and C<$output_filename_or_reference> is a single file/buffer, after uncompression C<$output_filename_or_reference> will contain a concatenation of all the uncompressed data from each of the input files/buffers.

=head2 Optional Parameters

Unless specified below, the optional parameters for C<anyinflate>, C<OPTS>, are the same as those used with the OO interface defined in the L<"Constructor Options"> section below.

=over 5

=item C<< AutoClose => 0|1 >>

This option applies to any input or output data streams to C<anyinflate> that are filehandles.
If C<AutoClose> is specified, and the value is true, it will result in all input and/or output filehandles being closed once C<anyinflate> has completed.

This parameter defaults to 0.

=item C<< BinModeOut => 0|1 >>

When writing to a file or filehandle, set C<binmode> before writing to the file.

Defaults to 0.

=item C<< Append => 0|1 >>

The behaviour of this option is dependent on the type of output data stream.

=over 5

=item * A Buffer

If C<Append> is enabled, all uncompressed data will be append to the end of the output buffer. Otherwise the output buffer will be cleared before any uncompressed data is written to it.

=item * A Filename

If C<Append> is enabled, the file will be opened in append mode. Otherwise the contents of the file, if any, will be truncated before any uncompressed data is written to it.

=item * A Filehandle

If C<Append> is enabled, the filehandle will be positioned to the end of the file via a call to C<seek> before any uncompressed data is written to it. Otherwise the file pointer will not be moved.

=back

When C<Append> is specified, and set to true, it will I<append> all uncompressed data to the output data stream.

So when the output is a filehandle it will carry out a seek to the eof before writing any uncompressed data. If the output is a filename, it will be opened for appending. If the output is a buffer, all uncompressed data will be appended to the existing buffer.
Conversely when \texttt{Append} is not specified, or it is present and is set to false, it will operate as follows.

When the output is a filename, it will truncate the contents of the file before writing any uncompressed data. If the output is a filehandle its position will not be changed. If the output is a buffer, it will be wiped before any uncompressed data is output.

Defaults to 0.

\texttt{MultiStream} => 0|1

If the input file/buffer contains multiple compressed data streams, this option will uncompress the whole lot as a single data stream.

Defaults to 0.

\texttt{TrailingData} => $scalar$

Returns the data, if any, that is present immediately after the compressed data stream once uncompression is complete.

This option can be used when there is useful information immediately following the compressed data stream, and you don't know the length of the compressed data stream.

If the input is a buffer, \texttt{trailingData} will return everything from the end of the compressed data stream to the end of the buffer.

If the input is a filehandle, \texttt{trailingData} will return the data that is left in the filehandle input buffer once the end of the compressed data stream has been reached. You can then use the filehandle to read the rest of the input file.

Don't bother using \texttt{trailingData} if the input is a filename.

If you know the length of the compressed data stream before you start uncompressing, you can avoid having to use \texttt{trailingData} by setting the \texttt{InputLength} option.

\texttt{Examples}

To read the contents of the file \texttt{file1.txt.Compressed} and write the uncompressed data to the file \texttt{file1.txt}. 
use strict;
use warnings;
use IO::Uncompress::AnyInflate qw(anyinflate $AnyInflateError);

my $input = "file1.txt.Compressed";
my $output = "file1.txt";
anyinflate $input => $output
  or die "anyinflate failed: $AnyInflateError\n";

To read from an existing Perl filehandle, C<$input>, and write the
uncompressed data to a buffer, C<$buffer>.

use strict;
use warnings;
use IO::Uncompress::AnyInflate qw(anyinflate $AnyInflateError);
use IO::File;

my $input = new IO::File "<file1.txt.Compressed"
  or die "Cannot open 'file1.txt.Compressed': $!\n";
my $buffer;
anyinflate $input => \$buffer
  or die "anyinflate failed: $AnyInflateError\n";

To uncompress all files in the directory "/my/home" that match ".txt.Compressed" and store the compressed data in
the same directory

use strict;
use warnings;
use IO::Uncompress::AnyInflate qw(anyinflate $AnyInflateError);

anyinflate '</my/home/*.txt.Compressed>' => '</my/home/#1.txt>'
  or die "anyinflate failed: $AnyInflateError\n";

and if you want to compress each file one at a time, this will do the trick

use strict;
use warnings;
use IO::Uncompress::AnyInflate qw(anyinflate $AnyInflateError);

for my $input ( glob "/my/home/*.txt.Compressed" )
{
  my $output = $input;
  $output =~ s/.Compressed// ;
  anyinflate $input => $output
  or die "Error compressing '$input': $AnyInflateError\n";
}

=head1 OO Interface
=head2 Constructor

The format of the constructor for IO::Uncompress::AnyInflate is shown below

```perl
my $z = new IO::Uncompress::AnyInflate $input [OPTS]
    or die "IO::Uncompress::AnyInflate failed: $AnyInflateError\n";
```

Returns an C<IO::Uncompress::AnyInflate> object on success and undef on failure.
The variable C<$AnyInflateError> will contain an error message on failure.

If you are running Perl 5.005 or better the object, C<$z>, returned from
IO::Uncompress::AnyInflate can be used exactly like a L<IO::File|IO::File> filehandle.
This means that all normal input file operations can be carried out with
C<$z>. For example, to read a line from a compressed file/buffer you can
use either of these forms

```perl
$line = $z->getline();
$line = <$z>;
```

The mandatory parameter C<$input> is used to determine the source of the
compressed data. This parameter can take one of three forms.

=over 5

=item A filename

If the C<$input> parameter is a scalar, it is assumed to be a filename. This
file will be opened for reading and the compressed data will be read from it.

=item A filehandle

If the C<$input> parameter is a filehandle, the compressed data will be
read from it.
The string '-' can be used as an alias for standard input.

=item A scalar reference

If C<$input> is a scalar reference, the compressed data will be read from
C<$$input>.

=back

=head2 Constructor Options

The option names defined below are case insensitive and can be optionally
prefixied by a '-'. So all of the following are valid
-AutoClose
-autoclose

AUTOCLOSE
autoclose

OPTS is a combination of the following options:

=over 5

=item C<< AutoClose => 0|1 >>

This option is only valid when the C<$input> parameter is a filehandle. If specified, and the value is true, it will result in the file being closed once either the C<close> method is called or the IO::Uncompress::AnyInflate object is destroyed.

This parameter defaults to 0.

=item C<< MultiStream => 0|1 >>

Allows multiple concatenated compressed streams to be treated as a single compressed stream. Decompression will stop once either the end of the file/buffer is reached, an error is encountered (premature eof, corrupt compressed data) or the end of a stream is not immediately followed by the start of another stream.

This parameter defaults to 0.

=item C<< Prime => $string >>

This option will uncompress the contents of C<$string> before processing the input file/buffer.

This option can be useful when the compressed data is embedded in another file/data structure and it is not possible to work out where the compressed data begins without having to read the first few bytes. If this is the case, the uncompression can be I<primed> with these bytes using this option.

=item C<< Transparent => 0|1 >>

If this option is set and the input file/buffer is not compressed data, the module will allow reading of it anyway.

In addition, if the input file/buffer does contain compressed data and there is non-compressed data immediately following it, setting this option will make this module treat the whole file/buffer as a single data stream.
This option defaults to 1.

=item C<< BlockSize => $num >>

When reading the compressed input data, IO::Uncompress::AnyInflate will read it in blocks of C<$num> bytes.

This option defaults to 4096.

=item C<< InputLength => $size >>

When present this option will limit the number of compressed bytes read from the input file/buffer to C<$size>. This option can be used in the situation where there is useful data directly after the compressed data stream and you know beforehand the exact length of the compressed data stream.

This option is mostly used when reading from a filehandle, in which case the file pointer will be left pointing to the first byte directly after the compressed data stream.

This option defaults to off.

=item C<< Append => 0|1 >>

This option controls what the C<read> method does with uncompressed data.

If set to 1, all uncompressed data will be appended to the output parameter of the C<read> method.

If set to 0, the contents of the output parameter of the C<read> method will be overwritten by the uncompressed data.

Defaults to 0.

=item C<< Strict => 0|1 >>

This option controls whether the extra checks defined below are used when carrying out the decompression. When Strict is on, the extra tests are carried out, when Strict is off they are not.

The default for this option is off.

If the input is an RFC 1950 data stream, the following will be checked:

=over 5
=item 1
The ADLER32 checksum field must be present.

=item 2

The value of the ADLER32 field read must match the adler32 value of the uncompressed data actually contained in the file.

=back

If the input is a gzip (RFC 1952) data stream, the following will be checked:

=over 5

=item 1

If the FHCRC bit is set in the gzip FLG header byte, the CRC16 bytes in the header must match the crc16 value of the gzip header actually read.

=item 2

If the gzip header contains a name field (FNAME) it consists solely of ISO 8859-1 characters.

=item 3

If the gzip header contains a comment field (FCOMMENT) it consists solely of ISO 8859-1 characters plus line-feed.

=item 4

If the gzip FEXTRA header field is present it must conform to the sub-field structure as defined in RFC 1952.

=item 5

The CRC32 and ISIZE trailer fields must be present.

=item 6

The value of the CRC32 field read must match the crc32 value of the uncompressed data actually contained in the gzip file.

=item 7

The value of the ISIZE fields read must match the length of the uncompressed data actually read from the file.
When auto-detecting the compressed format, try to test for raw-deflate (RFC 1951) content using the `IO::Uncompress::RawInflate` module.

The reason this is not default behaviour is because RFC 1951 content can only be detected by attempting to uncompress it. This process is error prone and can result in false positives.

Defaults to 0.

If the gzip FEXTRA header field is present and this option is set, it will force the module to check that it conforms to the sub-field structure as defined in RFC 1952.

If the `Strict` is on it will automatically enable this option.

Defaults to 0.

Usage is

```perl
$status = $z->read($buffer)
```

Reads a block of compressed data (the size of the compressed block is determined by the `Buffer` option in the constructor), uncompresses it and writes any uncompressed data into `$buffer`. If the `Append` parameter is set in the constructor, the uncompressed data will be appended to the `$buffer` parameter. Otherwise `$buffer` will be overwritten.

Returns the number of uncompressed bytes written to `$buffer`, zero if eof or a negative number on error.
The main difference between this form of the `read` method and the previous one, is that this one will attempt to return exactly \$length bytes. The only circumstances that this function will not is if end-of-file or an IO error is encountered.

Returns the number of uncompressed bytes written to \$buffer, zero if eof or a negative number on error.

=head2 getline

Usage is

```
$line = $z->getline()
$line = <$z>
```

Reads a single line.

This method fully supports the use of the variable \$/ (or \$INPUT_RECORD_SEPARATOR or \$RS when \$English is in use) to determine what constitutes an end of line. Paragraph mode, record mode and file slurp mode are all supported.

=head2 getc

Usage is

```
$char = $z->getc()
```

Read a single character.

=head2 ungetc

Usage is

```
$char = $z->ungetc($string)
```

=head2 inflateSync

Usage is
$status = $z->inflateSync()

TODO

=head2 getHeaderInfo

Usage is

$hdr = $z->getHeaderInfo();
@hdrs = $z->getHeaderInfo();

This method returns either a hash reference (in scalar context) or a list
or hash references (in array context) that contains information about each
of the header fields in the compressed data stream(s).

=head2 tell

Usage is

$z->tell()
tell $z

Returns the uncompressed file offset.

=head2 eof

Usage is

$z->eof();
eof($z);

Returns true if the end of the compressed input stream has been reached.

=head2 seek

$z->seek($position, $whence);
seek($z, $position, $whence);

Provides a sub-set of the C<seek> functionality, with the restriction
that it is only legal to seek forward in the input file/buffer.
It is a fatal error to attempt to seek backward.

Note that the implementation of C<seek> in this module does not provide
ture random access to a compressed file/buffer. It works by uncompressing
data from the current offset in the file/buffer until it reaches the
uncompressed offset specified in the parameters to C<seek>. For very small
files this may be acceptable behaviour. For large files it may cause an
unacceptable delay.

The C<$whence$> parameter takes one the usual values, namely SEEK_SET, SEEK_CUR or SEEK_END.

Returns 1 on success, 0 on failure.

=head2 binmode

Usage is

$z->binmode
  binmode $z ;

This is a noop provided for completeness.

=head2 opened

$z->opened()

Returns true if the object currently refers to a opened file/buffer.

=head2 autoflush

  my $prev = $z->autoflush()
  my $prev = $z->autoflush(EXPR)

If the C<$z$> object is associated with a file or a filehandle, this method returns the current autoflush setting for the underlying filehandle. If C<EXPR> is present, and is non-zero, it will enable flushing after every write/print operation.

If C<$z$> is associated with a buffer, this method has no effect and always returns C<undef>.

B<Note> that the special variable C<$|$> B<cannot> be used to set or retrieve the autoflush setting.

=head2 input_line_number

$z->input_line_number()
  $z->input_line_number(EXPR)

Returns the current uncompressed line number. If C<EXPR> is present it has the effect of setting the line number. Note that setting the line number does not change the current position within the file/buffer being read.

The contents of C<$/> are used to determine what constitutes a line
the C<$z> object is associated with a file or a filehandle, C<fileno> will return the underlying file descriptor. Once the C<close> method is called C<fileno> will return C<undef>.

If the C<$z> object is associated with a buffer, this method will return C<undef>.

=head2 close

$z->close() ;
close $z ;

Closes the output file/buffer.

For most versions of Perl this method will be automatically invoked if the IO::Uncompress::AnyInflate object is destroyed (either explicitly or by the variable with the reference to the object going out of scope). The exceptions are Perl versions 5.005 through 5.00504 and 5.8.0. In these cases, the C<close> method will be called automatically, but not until global destruction of all live objects when the program is terminating.

Therefore, if you want your scripts to be able to run on all versions of Perl, you should call C<close> explicitly and not rely on automatic closing.

Returns true on success, otherwise 0.

If the C<AutoClose> option has been enabled when the IO::Uncompress::AnyInflate object was created, and the object is associated with a file, the underlying file will also be closed.

=head2 nextStream

Usage is

my $status = $z->nextStream();

Skips to the next compressed data stream in the input file/buffer. If a new compressed data stream is found, the eof marker will be cleared and C<$> will be reset to 0.
Returns 1 if a new stream was found, 0 if none was found, and -1 if an error was encountered.

=head2 trailingData

Usage is

   my $data = $z->trailingData();

Returns the data, if any, that is present immediately after the compressed data stream once uncompression is complete. It only makes sense to call this method once the end of the compressed data stream has been encountered.

This option can be used when there is useful information immediately following the compressed data stream, and you don't know the length of the compressed data stream.

If the input is a buffer, C<trailingData> will return everything from the end of the compressed data stream to the end of the buffer.

If the input is a filehandle, C<trailingData> will return the data that is left in the filehandle input buffer once the end of the compressed data stream has been reached. You can then use the filehandle to read the rest of the input file.

Don't bother using C<trailingData> if the input is a filename.

If you know the length of the compressed data stream before you start uncompressing, you can avoid having to use C<trailingData> by setting the C<InputLength> option in the constructor.

=head1 Importing

No symbolic constants are required by this IO::Uncompress::AnyInflate at present.

=head1 Over 5

=item :all

Imports C<anyinflate> and C<$AnyInflateError>.
Same as doing this

use IO::Uncompress::AnyInflate qw(anyinflate $AnyInflateError) ;

=back
EXAMPLES

Working with Net::FTP

See L<IO::Compress::FAQ|IO::Compress::FAQ/"Compressed files and Net::FTP">

SEE ALSO

L<Compress::Zlib>, L<IO::Compress::Gzip>, L<IO::Uncompress::Gunzip>, L<IO::Compress::Deflate>,
L<IO::Uncompress::Inflate>, L<IO::Compress::RawDeflate>, L<IO::Uncompress::RawInflate>,
L<IO::Compress::Bzip2>, L<IO::Uncompress::Bunzip2>, L<IO::Compress::Lzma>,
L<IO::Uncompress::UnLzma>, L<IO::Compress::Xz>, L<IO::Uncompress::UnXz>, L<IO::Compress::Lzop>,
L<IO::Uncompress::UnLzop>, L<IO::Compress::Lzf>, L<IO::Uncompress::UnLzf>,
L<IO::Uncompress::AnyUncompress>

L<IO::Compress::FAQ|IO::Compress::FAQ>

L<File::GlobMapper|File::GlobMapper>, L<Archive::Zip|Archive::Zip>,
L<Archive::Tar|Archive::Tar>,
L<IO::Zlib|IO::Zlib>

For RFC 1950, 1951 and 1952 see
L<http://www.faqs.org/rfcs/rfc1950.html>,
L<http://www.faqs.org/rfcs/rfc1951.html> and

The I<zlib> compression library was written by Jean-loup Gailly
C<gzip@prep.ai.mit.edu> and Mark Adler C<madler@alumni.caltech.edu>.

The primary site for the I<zlib> compression library is

The primary site for gzip is L<http://www.gzip.org>.

AUTHOR

This module was written by Paul Marquess, C<pmqs@cpan.org>.

MODIFICATION HISTORY

See the Changes file.

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=head1 NAME

IO::Uncompress::RawInflate - Read RFC 1951 files/buffers

=head1 SYNOPSIS

use IO::Uncompress::RawInflate qw(rawinflate $RawInflateError) ;

my $status = rawinflate $input => $output [,OPTS]
  or die "rawinflate failed: $RawInflateError\n";

my $z = new IO::Uncompress::RawInflate $input [OPTS]
  or die "rawinflate failed: $RawInflateError\n";

$status = $z->read($buffer)
$status = $z->read($buffer, $length)
$status = $z->read($buffer, $length, $offset)
$line = $z->getline()
$char = $z->getc()
$char = $z->ungetc()
$char = $z->opened()

$status = $z->inflateSync()

$data = $z->trailingData()
$status = $z->nextStream()
$data = $z->getHeaderInfo()
$z->tell()
$z->seek($position, $whence)
$z->binmode()
$z->fileno()
$z->eof()
$z->close()

$RawInflateError ;

# IO::File mode

<$z>
  read($z, $buffer);
  read($z, $buffer, $length);

No license file was found, but licenses were detected in source scan.
read($z, $buffer, $length, $offset);
tell($z)
seek($z, $position, $whence)
binmode($z)
fileno($z)
eof($z)
close($z)

=head1 DESCRIPTION

This module provides a Perl interface that allows the reading of files/buffers that conform to RFC 1951.

For writing RFC 1951 files/buffers, see the companion module IO::Compress::RawDeflate.

=head1 Functional Interface

A top-level function, C<rawinflate>, is provided to carry out "one-shot" uncompression between buffers and/or files. For finer control over the uncompression process, see the L</"OO Interface"> section.

use IO::Uncompress::RawInflate qw(rawinflate $RawInflateError) ;

rawinflate $input_filename_or_reference => $output_filename_or_reference [,OPTS]
or die "rawinflate failed: $RawInflateError\n";

The functional interface needs Perl5.005 or better.

=head2 rawinflate $input_filename_or_reference => $output_filename_or_reference [, OPTS]

C<rawinflate> expects at least two parameters,
C<$input_filename_or_reference> and C<$output_filename_or_reference>.

=head3 The C<$input_filename_or_reference> parameter

The parameter, C<$input_filename_or_reference>, is used to define the source of the compressed data.

It can take one of the following forms:

=over 5

=item A filename

If the <$input_filename_or_reference> parameter is a simple scalar, it is assumed to be a filename. This file will be opened for reading and the input data will be read from it.
=item A filehandle

If the C<$input_filename_or_reference> parameter is a filehandle, the input data will be read from it. The string '-' can be used as an alias for standard input.

=item A scalar reference

If C<$input_filename_or_reference> is a scalar reference, the input data will be read from C<$input_filename_or_reference>.

=item An array reference

If C<$input_filename_or_reference> is an array reference, each element in the array must be a filename.

The input data will be read from each file in turn.

The complete array will be walked to ensure that it only contains valid filenames before any data is uncompressed.

=item An Input FileGlob string

If C<$input_filename_or_reference> is a string that is delimited by the characters "<" and ">" C<rawinfl> will assume that it is an I<input fileglob string>. The input is the list of files that match the fileglob.

See L<File::GlobMapper|File::GlobMapper> for more details.

=back

If the C<$input_filename_or_reference> parameter is any other type, C<undef> will be returned.

=head3 The C<$output_filename_or_reference> parameter

The parameter C<$output_filename_or_reference> is used to control the destination of the uncompressed data. This parameter can take one of these forms.

=over 5

=item A filename

If the C<$output_filename_or_reference> parameter is a simple scalar, it is assumed to be a filename. This file will be opened for writing and the
uncompressed data will be written to it.

=item A filehandle

If the \$output_filename_or_reference parameter is a filehandle, the uncompressed data will be written to it. The string '.' can be used as an alias for standard output.

=item A scalar reference

If \$output_filename_or_reference is a scalar reference, the uncompressed data will be stored in \$output_filename_or_reference.

=item An Array Reference

If \$output_filename_or_reference is an array reference, the uncompressed data will be pushed onto the array.

=item An Output FileGlob

If \$output_filename_or_reference is a string that is delimited by the characters "<" and ">" \$rawinflate will assume that it is an I<output fileglob string>. The output is the list of files that match the fileglob.

When \$output_filename_or_reference is an fileglob string, \$input_filename_or_reference must also be a fileglob string. Anything else is an error.

See L<File::GlobMapper|File::GlobMapper> for more details.

=back

If the \$output_filename_or_reference parameter is any other type, \$undef will be returned.

=head2 Notes

When \$input_filename_or_reference maps to multiple compressed files/buffers and \$output_filename_or_reference is a single file/buffer, after uncompression \$output_filename_or_reference will contain a concatenation of all the uncompressed data from each of the input files/buffers.

=head2 Optional Parameters

Unless specified below, the optional parameters for \$rawinflate, \$OPTS, are the same as those used with the OO interface defined in the
L</"Constructor Options"> section below.

=item C<< AutoClose => 0|1 >>

This option applies to any input or output data streams to C<rawinflate> that are filehandles.

If C<AutoClose> is specified, and the value is true, it will result in all input and/or output filehandles being closed once C<rawinflate> has completed.

This parameter defaults to 0.

=item C<< BinModeOut => 0|1 >>

When writing to a file or filehandle, set C<binmode> before writing to the file.

Defaults to 0.

=item C<< Append => 0|1 >>

The behaviour of this option is dependent on the type of output data stream.

=item * A Buffer

If C<Append> is enabled, all uncompressed data will be append to the end of the output buffer. Otherwise the output buffer will be cleared before any uncompressed data is written to it.

=item * A Filename

If C<Append> is enabled, the file will be opened in append mode. Otherwise the contents of the file, if any, will be truncated before any uncompressed data is written to it.

=item * A Filehandle

If C<Append> is enabled, the filehandle will be positioned to the end of the file via a call to C<seek> before any uncompressed data is written to it. Otherwise the file pointer will not be moved.

=back
When C<Append> is specified, and set to true, it will I<append> all uncompressed data to the output data stream.

So when the output is a filehandle it will carry out a seek to the eof before writing any uncompressed data. If the output is a filename, it will be opened for appending. If the output is a buffer, all uncompressed data will be appended to the existing buffer.

Conversely when C<Append> is not specified, or it is present and is set to false, it will operate as follows.

When the output is a filename, it will truncate the contents of the file before writing any uncompressed data. If the output is a filehandle its position will not be changed. If the output is a buffer, it will be wiped before any uncompressed data is output.

Defaults to 0.

=item C<< MultiStream => 0|1 >>

This option is a no-op.

=item C<< TrailingData => $scalar >>

Returns the data, if any, that is present immediately after the compressed data stream once uncompression is complete.

This option can be used when there is useful information immediately following the compressed data stream, and you don't know the length of the compressed data stream.

If the input is a buffer, C<trailingData> will return everything from the end of the compressed data stream to the end of the buffer.

If the input is a filehandle, C<trailingData> will return the data that is left in the filehandle input buffer once the end of the compressed data stream has been reached. You can then use the filehandle to read the rest of the input file.

Don't bother using C<trailingData> if the input is a filename.

If you know the length of the compressed data stream before you start uncompressing, you can avoid having to use C<trailingData> by setting the C<InputLength> option.
=head2 Examples

To read the contents of the file C<file1.txt.1951> and write the
uncompressed data to the file C<file1.txt>.

use strict;
use warnings;
use IO::Uncompress::RawInflate qw(rawinflate $RawInflateError);

my $input = "file1.txt.1951";
my $output = "file1.txt";
rawinflate $input => $output
  or die "rawinflate failed: $RawInflateError\n";

To read from an existing Perl filehandle, C<$input>, and write the
uncompressed data to a buffer, C<$buffer>.

use strict;
use warnings;
use IO::Uncompress::RawInflate qw(rawinflate $RawInflateError);
use IO::File;

my $input = new IO::File "<file1.txt.1951"
  or die "Cannot open 'file1.txt.1951': $!\n";
my $buffer;
rawinflate $input => $buffer
  or die "rawinflate failed: $RawInflateError\n";

To uncompress all files in the directory C="/my/home" that match C"*.txt.1951" and store the compressed data in the
same directory

use strict;
use warnings;
use IO::Uncompress::RawInflate qw(rawinflate $RawInflateError);

rawinflate './my/home/*.txt.1951' => './my/home/#1.txt'
  or die "rawinflate failed: $RawInflateError\n";

and if you want to compress each file one at a time, this will do the trick

use strict;
use warnings;
use IO::Uncompress::RawInflate qw(rawinflate $RawInflateError);

for my $input ( glob "./my/home/*txt.1951" )
{
  my $output = $input;
  $output =~ s/.1951//;
}
rawinflate $input => $output  
  or die "Error compressing '$input'; $RawInflateError
";
}

=head1 OO Interface

=head2 Constructor

The format of the constructor for IO::Uncompress::RawInflate is shown below

my $z = new IO::Uncompress::RawInflate $input [OPTS]  
  or die "IO::Uncompress::RawInflate failed: $RawInflateError
";

Returns an C<IO::Uncompress::RawInflate> object on success and undef on failure.  
The variable C<$RawInflateError> will contain an error message on failure.

If you are running Perl 5.005 or better the object, C<$z>, returned from  
IO::Uncompress::RawInflate can be used exactly like an L<IO::File|IO::File> filehandle. 
This means that all normal input file operations can be carried out with  
C<$z>.  For example, to read a line from a compressed file/buffer you can  
use either of these forms

$line = $z->getline();  
$line = <$z>;

The mandatory parameter C<$input> is used to determine the source of the  
compressed data. This parameter can take one of three forms.

=over 5

=item A filename

If the C<$input> parameter is a scalar, it is assumed to be a filename. This  
file will be opened for reading and the compressed data will be read from it.

=item A filehandle

If the C<$input> parameter is a filehandle, the compressed data will be  
read from it.  
The string '-' can be used as an alias for standard input.

=item A scalar reference

If C<$input> is a scalar reference, the compressed data will be read from  
C<$$input>.

=back
The option names defined below are case insensitive and can be optionally prefixed by a `-`. So all of the following are valid:

- AutoClose
- autoclose
  AUTOCLOSE
  autoclose

OPTS is a combination of the following options:

=over 5

=item C<< AutoClose => 0|1 >>

This option is only valid when the C<$input> parameter is a filehandle. If specified, and the value is true, it will result in the file being closed once either the C<close> method is called or the IO::Uncompress::RawInflate object is destroyed.

This parameter defaults to 0.

=item C<< MultiStream => 0|1 >>

Allows multiple concatenated compressed streams to be treated as a single compressed stream. Decompression will stop once either the end of the file/buffer is reached, an error is encountered (premature eof, corrupt compressed data) or the end of a stream is not immediately followed by the start of another stream.

This parameter defaults to 0.

=item C<< Prime => $string >>

This option will uncompress the contents of C<$string> before processing the input file/buffer.

This option can be useful when the compressed data is embedded in another file/data structure and it is not possible to work out where the compressed data begins without having to read the first few bytes. If this is the case, the uncompression can be I<primed> with these bytes using this option.

=item C<< Transparent => 0|1 >>

If this option is set and the input file/buffer is not compressed data, the module will allow reading of it anyway.
In addition, if the input file/buffer does contain compressed data and there is non-compressed data immediately following it, setting this option will make this module treat the whole file/buffer as a single data stream.

This option defaults to 1.

=item C<< BlockSize => $num >>

When reading the compressed input data, IO::Uncompress::RawInflate will read it in blocks of C<$num> bytes.

This option defaults to 4096.

=item C<< InputLength => $size >>

When present this option will limit the number of compressed bytes read from the input file/buffer to C<$size>. This option can be used in the situation where there is useful data directly after the compressed data stream and you know beforehand the exact length of the compressed data stream.

This option is mostly used when reading from a filehandle, in which case the file pointer will be left pointing to the first byte directly after the compressed data stream.

This option defaults to off.

=item C<< Append => 0|1 >>

This option controls what the C<read> method does with uncompressed data.

If set to 1, all uncompressed data will be appended to the output parameter of the C<read> method.

If set to 0, the contents of the output parameter of the C<read> method will be overwritten by the uncompressed data.

Defaults to 0.

=item C<< Strict => 0|1 >>

This option is a no-op.
TODO

=head1 Methods

=head2 read

Usage is

$status = $z->read($buffer)

Reads a block of compressed data (the size of the compressed block is determined by the C<Buffer> option in the constructor), uncompresses it and writes any uncompressed data into C<$buffer>. If the C<Append> parameter is set in the constructor, the uncompressed data will be appended to the C<$buffer> parameter. Otherwise C<$buffer> will be overwritten.

Returns the number of uncompressed bytes written to C<$buffer>, zero if eof or a negative number on error.

=head2 read

Usage is

$status = $z->read($buffer, $length)
$status = $z->read($buffer, $length, $offset)

$status = read($z, $buffer, $length)
$status = read($z, $buffer, $length, $offset)

Attempt to read C<$length> bytes of uncompressed data into C<$buffer>.

The main difference between this form of the C<read> method and the previous one, is that this one will attempt to return I<exactly> C<$length> bytes. The only circumstances that this function will not is if end-of-file or an IO error is encountered.

Returns the number of uncompressed bytes written to C<$buffer>, zero if eof or a negative number on error.

=head2 getline

Usage is

$line = $z->getline()
$line = <$z>

Reads a single line.
This method fully supports the use of the variable C<$/> (or C<$INPUT_RECORD_SEPARATOR$> or C<$RS$> when C<$English$> is in use) to determine what constitutes an end of line. Paragraph mode, record mode and file slurp mode are all supported.

=head2 getc

Usage is

$char = $z->getc();

Read a single character.

=head2 ungetc

Usage is

$char = $z->ungetc($string);

=head2 inflateSync

Usage is

$status = $z->inflateSync();

TODO

=head2 getHeaderInfo

Usage is

$hdr = $z->getHeaderInfo();
@hdrs = $z->getHeaderInfo();

This method returns either a hash reference (in scalar context) or a list or hash references (in array context) that contains information about each of the header fields in the compressed data stream(s).

=head2 tell

Usage is

$z->tell();
tell $z

Returns the uncompressed file offset.

=head2 eof
Usage is

```perl
$z->eof();
eof($z);
```

Returns true if the end of the compressed input stream has been reached.

=head2 seek

```perl
$z->seek($position, $whence);
seek($z, $position, $whence);
```

Provides a sub-set of the C<seek> functionality, with the restriction that it is only legal to seek forward in the input file/buffer. It is a fatal error to attempt to seek backward.

Note that the implementation of C<seek> in this module does not provide true random access to a compressed file/buffer. It works by uncompressing data from the current offset in the file/buffer until it reaches the uncompressed offset specified in the parameters to C<seek>. For very small files this may be acceptable behaviour. For large files it may cause an unacceptable delay.

The C<$whence> parameter takes one the usual values, namely SEEK_SET, SEEK_CUR or SEEK_END.

Returns 1 on success, 0 on failure.

=head2 binmode

Usage is

```perl
$z->binmode
binmode $z;
```

This is a noop provided for completeness.

=head2 opened

```perl
$z->opened()
```

Returns true if the object currently refers to a opened file/buffer.

=head2 autoflush

```perl
my $prev = $z->autoflush()
my $prev = $z->autoflush(EXPR)
```
If the \texttt{C<$z>$} object is associated with a file or a filehandle, this method returns the current autoflush setting for the underlying filehandle. If \texttt{C<EXPR>}, is present, and is non-zero, it will enable flushing after every write/print operation.

If \texttt{C<$z>$} is associated with a buffer, this method has no effect and always returns \texttt{C<undef>}.

\textbf{Note} that the special variable \texttt{C<$|>$} \textbf{cannot} be used to set or retrieve the autoflush setting.

\begin{verbatim}
=head2 input_line_number

$z->input_line_number()
$z->input_line_number(EXPR)

=head2 fileno

$fz->fileno()
fileno($z)

If the \texttt{C<$z>$} object is associated with a file or a filehandle, \texttt{C<fileno>} will return the underlying file descriptor. Once the \texttt{C<close>} method is called \texttt{C<fileno>} will return \texttt{C<undef>}.  

If the \texttt{C<$z>$} object is associated with a buffer, this method will return \texttt{C<undef>}.

=head2 close

$z->close() ;
close $z ;

Closes the output file/buffer.

For most versions of Perl this method will be automatically invoked if the \texttt{IO::Uncompress::RawInflate} object is destroyed (either explicitly or by the variable with the reference to the object going out of scope). The exceptions are Perl versions 5.005 through 5.00504 and 5.8.0. In these cases, the \texttt{C<close>} method will be called automatically, but
not until global destruction of all live objects when the program is terminating.

Therefore, if you want your scripts to be able to run on all versions of Perl, you should call `C<close>` explicitly and not rely on automatic closing.

Returns true on success, otherwise 0.

If the `C<AutoClose>` option has been enabled when the IO::Uncompress::RawInflate object was created, and the object is associated with a file, the underlying file will also be closed.

=head2 nextStream

Usage is

my $status = $z->nextStream();

Skips to the next compressed data stream in the input file/buffer. If a new compressed data stream is found, the eof marker will be cleared and `C<$>` will be reset to 0.

Returns 1 if a new stream was found, 0 if none was found, and -1 if an error was encountered.

=head2 trailingData

Usage is

my $data = $z->trailingData();

Returns the data, if any, that is present immediately after the compressed data stream once uncompression is complete. It only makes sense to call this method once the end of the compressed data stream has been encountered.

This option can be used when there is useful information immediately following the compressed data stream, and you don't know the length of the compressed data stream.

If the input is a buffer, `C<trailingData>` will return everything from the end of the compressed data stream to the end of the buffer.

If the input is a filehandle, `C<trailingData>` will return the data that is left in the filehandle input buffer once the end of the compressed data stream has been reached. You can then use the filehandle to read the rest of the input file.
Don't bother using C<trailingData> if the input is a filename.

If you know the length of the compressed data stream before you start
uncompressing, you can avoid having to use C<trailingData> by setting the
C<InputLength> option in the constructor.

=head1 Importing

No symbolic constants are required by this IO::Uncompress::RawInflate at present.

=over 5

=item :all

Imports C<rawinflate> and C<$RawInflateError>.
Same as doing this

    use IO::Uncompress::RawInflate qw(rawinflate $RawInflateError);

=back

=head1 EXAMPLES

=head2 Working with Net::FTP

See L<IO::Compress::FAQ|IO::Compress::FAQ/"Compressed files and Net::FTP”>

=head1 SEE ALSO

L<Compress::Zlib>, L<IO::Compress::Gzip>, L<IO::Uncompress::Gunzip>, L<IO::Compress::Deflate>,
L<IO::Uncompress::Inflate>, L<IO::Compress::RawDeflate>, L<IO::Compress::Bzip2>,
L<IO::Uncompress::Bunzip2>, L<IO::Compress::Lzma>, L<IO::Uncompress::UnLzma>, L<IO::Compress::Xz>,
L<IO::Uncompress::UnXz>, L<IO::Compress::Lzop>, L<IO::Uncompress::UnLzop>, L<IO::Compress::Lzf>,
L<IO::Uncompress::UnLzf>, L<IO::Uncompress::AnyInflate>, L<IO::Uncompress::AnyUncompress>

L<IO::Compress::FAQ|IO::Compress::FAQ>

L<File::GlobMapper|File::GlobMapper>, L<Archive::Zip|Archive::Zip>,
L<Archive::Tar|Archive::Tar>,
L<IO::Zlib|IO::Zlib>

For RFC 1950, 1951 and 1952 see
L<http://www.faqs.org/rfcs/rfc1950.html>,
L<http://www.faqs.org/rfcs/rfc1951.html> and

The I<zlib> compression library was written by Jean-loup Gailly
C<gzip@prep.ai.mit.edu> and Mark Adler C<madler@alumni.caltech.edu>.

The primary site for the I<zlib> compression library is L<http://www.zlib.org>.

The primary site for gzip is L<http://www.gzip.org>.

=head1 AUTHOR

This module was written by Paul Marquess, C<pmqs@cpan.org>.

=head1 MODIFICATION HISTORY

See the Changes file.

=head1 COPYRIGHT AND LICENSE

Copyright (c) 2005-2018 Paul Marquess. All rights reserved.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.


No license file was found, but licenses were detected in source scan.

=back

Test::Simple will start by printing number of tests run in the form "1..M" (so "1..5" means you're going to run 5 tests).  This strange format lets Test::Harness know how many tests you plan on running in case something goes horribly wrong.

If all your tests passed, Test::Simple will exit with zero (which is normal).  If anything failed it will exit with how many failed.  If you run less (or more) tests than you planned, the missing (or extras) will be considered failures.  If no tests were ever run Test::Simple will throw a warning and exit with 255.  If the test died, even after having successfully completed all its tests, it will still be considered a failure and will exit with 255.

So the exit codes are...

  0       all tests successful
  255     test died
  any other number how many failed (including missing or extras)
If you fail more than 254 tests, it will be reported as 254.

This module is by no means trying to be a complete testing system.
It's just to get you started. Once you're off the ground its
recommended you look at L<Test::More>.

=head1 EXAMPLE

Here's an example of a simple .t file for the fictional Film module.

use Test::Simple tests => 5;

use Film;  # What you're testing.

my $btaste = Film->new({ Title    => 'Bad Taste',
    Director => 'Peter Jackson',
    Rating   => 'R',
    NumExplodingSheep => 1
  });
ok( defined($btaste) && ref $btaste eq 'Film,     'new() works' );
ok( $btaste->Title      eq 'Bad Taste',     'Title() get'    );
ok( $btaste->Director   eq 'Peter Jackson', 'Director() get' );
ok( $btaste->Rating     eq 'R',             'Rating() get'   );
ok( $btaste->NumExplodingSheep == 1,        'NumExplodingSheep() get' );

It will produce output like this:

    1..5
    ok 1 - new() works
    ok 2 - Title() get
    ok 3 - Director() get
    not ok 4 - Rating() get
    #   Failed test (t/film.t at line 14)
    ok 5 - NumExplodingSheep() get
    # Looks like you failed 1 tests of 5

Indicating the Film::Rating() method is broken.

=head1 CAVEATS

Test::Simple will only report a maximum of 254 failures in its exit
code. If this is a problem, you probably have a huge test script.
Split it into multiple files. (Otherwise blame the Unix folks for
using an unsigned short integer as the exit status).
Because VMS's exit codes are much, much different than the rest of the universe, and perl does horrible mangling to them that gets in my way, it works like this on VMS.

0  SS$_NORMAL       all tests successful
4  SS$_ABORT        something went wrong

Unfortunately, I can't differentiate any further.

=head1 NOTES

Test::Simple is B<explicitly> tested all the way back to perl 5.004.

Test::Simple is thread-safe in perl 5.8.0 and up.

=head1 HISTORY

This module was conceived while talking with Tony Bowden in his kitchen one night about the problems I was having writing some really complicated feature into the new Testing module. He observed that the main problem is not dealing with these edge cases but that people hate to write tests B<at all>. What was needed was a dead simple module that took all the hard work out of testing and was really, really easy to learn. Paul Johnson simultaneously had this idea (unfortunately, he wasn't in Tony's kitchen). This is it.

=head1 SEE ALSO

=over 4

=item L<Test::More>

More testing functions! Once you outgrow Test::Simple, look at Test::More. Test::Simple is 100% forward compatible with Test::More (i.e. you can just use Test::More instead of Test::Simple in your programs and things will still work).

=item L<Test>

The original Perl testing module.

=item L<Test::Unit>

Elaborate unit testing.
=item L<Test::Inline>, L<SelfTest>

Embed tests in your code!

=back

=head1 AUTHORS

Idea by Tony Bowden and Paul Johnson, code by Michael G Schwern E<lt>schwern@pobox.comE<gt>, wardrobe by Calvin Klein.

=head1 COPYRIGHT


This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

See F<http://www.perl.com/perl/misc/Artistic.html>

=cut

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License:        GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1178587419_1625692217.01/0/perl-IO-Compress-2.081-1.el8-1.src.rpm-cosi-expand-archive-oy3VzoZ3/perl-IO-Compress.spec
No license file was found, but licenses were detected in source scan.

---
abstract: 'IO Interface to compressed data files/buffers'
author:
- 'Paul Marquess <pmqs@cpan.org>'
built_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.1001, 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: IO-Compress
no_index:
directory:
  - t
  - inc
  - t
  - private
requires:
  Compress::Raw::Bzip2: '2.081'
  Compress::Raw::Zlib: '2.081'
  Scalar::Util: '0'
version: '2.081'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
No license file was found, but licenses were detected in source scan.

=head1 NAME

IO::Compress::Bzip2 - Write bzip2 files/buffers

=head1 SYNOPSIS

use IO::Compress::Bzip2 qw(bzip2 $Bzip2Error) ;

my $status = bzip2 $input => $output [,OPTS]
  or die "bzip2 failed: $Bzip2Error\n"

my $z = new IO::Compress::Bzip2 $output [,OPTS]
  or die "bzip2 failed: $Bzip2Error\n"

$z->print($string);
$z->printf($format, $string);
$z->write($string);
$z->syswrite($string [, $length, $offset]);
$z->flush();
$z->tell();
$z->eof();
$z->seek($position, $whence);
$z->binmode();
=head1 DESCRIPTION

This module provides a Perl interface that allows writing bzip2 compressed data to files or buffer.

For reading bzip2 files/buffers, see the companion module L<IO::Uncompress::Bunzip2|IO::Uncompress::Bunzip2>.

=head2 bzip2 $input_filename_or_reference => $output_filename_or_reference [,OPTS]

C<bzip2> expects at least two parameters, C<$input_filename_or_reference> and C<$output_filename_or_reference>.
The parameter, C<$input_filename_or_reference>, is used to define the source of the uncompressed data.

It can take one of the following forms:

=item A filename

If the C<$input_filename_or_reference> parameter is a simple scalar, it is assumed to be a filename. This file will be opened for reading and the input data will be read from it.

=item A filehandle

If the C<$input_filename_or_reference> parameter is a filehandle, the input data will be read from it. The string '-' can be used as an alias for standard input.

=item A scalar reference

If C<$input_filename_or_reference> is a scalar reference, the input data will be read from C<$$input_filename_or_reference>.

=item An array reference

If C<$input_filename_or_reference> is an array reference, each element in the array must be a filename.

The input data will be read from each file in turn.

The complete array will be walked to ensure that it only contains valid filenames before any data is compressed.

=item An Input FileGlob string

If C<$input_filename_or_reference> is a string that is delimited by the characters "<" and ">" C<bzip2> will assume that it is an I<input fileglob string>. The input is the list of files that match the fileglob.

See L<File::GlobMapper|File::GlobMapper> for more details.
If the C<$input_filename_or_reference> parameter is any other type, C<undef> will be returned.

=head3 The C<$output_filename_or_reference> parameter

The parameter C<$output_filename_or_reference> is used to control the destination of the compressed data. This parameter can take one of these forms.

=item A filename

If the C<$output_filename_or_reference> parameter is a simple scalar, it is assumed to be a filename. This file will be opened for writing and the compressed data will be written to it.

=item A filehandle

If the C<$output_filename_or_reference> parameter is a filehandle, the compressed data will be written to it. The string '-' can be used as an alias for standard output.

=item A scalar reference

If C<$output_filename_or_reference> is a scalar reference, the compressed data will be stored in C<$output_filename_or_reference>. 

=item An Array Reference

If C<$output_filename_or_reference> is an array reference, the compressed data will be pushed onto the array.

=item An Output FileGlob

If C<$output_filename_or_reference> is a string that is delimited by the characters "<" and ">">" C<bzip2> will assume that it is an I<output fileglob string>. The output is the list of files that match the fileglob.

When C<$output_filename_or_reference> is a fileglob string, C<$input_filename_or_reference> must also be a fileglob string. Anything else is an error.

See L<File::GlobMapper|File::GlobMapper> for more details.
If the C<$output_filename_or_reference> parameter is any other type, C<undef> will be returned.

=head2 Notes

When C<$input_filename_or_reference> maps to multiple files/buffers and C<$output_filename_or_reference> is a single file/buffer the input files/buffers will be stored in C<$output_filename_or_reference> as a concatenated series of compressed data streams.

=head2 Optional Parameters

Unless specified below, the optional parameters for C<bzip2>, C<OPTS>, are the same as those used with the OO interface defined in the L</"Constructor Options"> section below.

=over 5
=item C<< AutoClose => 0|1 >>

This option applies to any input or output data streams to C<bzip2> that are filehandles.

If C<AutoClose> is specified, and the value is true, it will result in all input and/or output filehandles being closed once C<bzip2> has completed.

This parameter defaults to 0.

=item C<< BinModeIn => 0|1 >>

When reading from a file or filehandle, set C<binmode> before reading.

Defaults to 0.

=item C<< Append => 0|1 >>

The behaviour of this option is dependent on the type of output data stream.

=over 5
=item * A Buffer

If C<Append> is enabled, all compressed data will be append to the end of the output buffer. Otherwise the output buffer will be cleared before any compressed data is written to it.
=item * A Filename

If C<Append> is enabled, the file will be opened in append mode. Otherwise the contents of the file, if any, will be truncated before any compressed data is written to it.

=back

=item * A Filehandle

If C<Append> is enabled, the filehandle will be positioned to the end of the file via a call to C<seek> before any compressed data is written to it. Otherwise the file pointer will not be moved.

=back

When C<Append> is specified, and set to true, it will I<append> all compressed data to the output data stream.

So when the output is a filehandle it will carry out a seek to the eof before writing any compressed data. If the output is a filename, it will be opened for appending. If the output is a buffer, all compressed data will be appended to the existing buffer.

Conversely when C<Append> is not specified, or it is present and is set to false, it will operate as follows.

When the output is a filename, it will truncate the contents of the file before writing any compressed data. If the output is a filehandle its position will not be changed. If the output is a buffer, it will be wiped before any compressed data is output.

Defaults to 0.

=back

=head2 Examples

To read the contents of the file C<file1.txt> and write the compressed data to the file C<file1.txt.bz2>.

    use strict ;
    use warnings ;
    use IO::Compress::Bzip2 qw(bzip2 $Bzip2Error) ;

    my $input = "file1.txt";
    bzip2 $input => "$input.bz2"
      or die "bzip2 failed: $Bzip2Error\n";

To read from an existing Perl filehandle, C<$input>, and write the
compressed data to a buffer, C<$buffer>.

use strict;
use warnings;
use IO::Compress::Bzip2 qw(bzip2 $Bzip2Error);
use IO::File;

my $input = new IO::File "<file1.txt"
  or die 'Cannot open 'file1.txt': $!";
my $buffer;
bzip2 $input => $buffer
  or die "bzip2 failed: $Bzip2Error\n";

To compress all files in the directory "/my/home" that match ".*.txt"
and store the compressed data in the same directory

use strict;
use warnings;
use IO::Compress::Bzip2 qw(bzip2 $Bzip2Error);
bzip2 '</my/home/*.txt>' => '<*.bz2>'
  or die "bzip2 failed: $Bzip2Error\n";

and if you want to compress each file one at a time, this will do the trick

use strict;
use warnings;
use IO::Compress::Bzip2 qw(bzip2 $Bzip2Error);

for my $input ( glob "<my/home/*.txt" )
{
  my $output = "$input.bz2";
bzip2 $input => $output
    or die "Error compressing '$input': $Bzip2Error\n";
}

=head1 OO Interface

=head2 Constructor

The format of the constructor for C<IO::Compress::Bzip2> is shown below

my $z = new IO::Compress::Bzip2 Soutput [,OPTS]
  or die "IO::Compress::Bzip2 failed: $Bzip2Error\n";

It returns an C<IO::Compress::Bzip2> object on success and undef on failure.
The variable C<$Bzip2Error> will contain an error message on failure.
If you are running Perl 5.005 or better the object, C<$z>, returned from IO::Compress::Bzip2 can be used exactly like an L<IO::File|IO::File> filehandle. This means that all normal output file operations can be carried out with C<$z>.

For example, to write to a compressed file/buffer you can use either of these forms

```
$z->print("hello world\n");
print $z "hello world\n";
```

The mandatory parameter C<$output> is used to control the destination of the compressed data. This parameter can take one of these forms.

=over 5

=item A filename

If the C<$output> parameter is a simple scalar, it is assumed to be a filename. This file will be opened for writing and the compressed data will be written to it.

=item A filehandle

If the C<$output> parameter is a filehandle, the compressed data will be written to it.

The string '-' can be used as an alias for standard output.

=item A scalar reference

If C<$output> is a scalar reference, the compressed data will be stored in C<$output>.

=back

If the C<$output> parameter is any other type, C<IO::Compress::Bzip2>::new will return undef.

=head2 Constructor Options

C<OPTS> is any combination of the following options:

=over 5

=item C<< AutoClose => 0|1 >>

This option is only valid when the C<$output> parameter is a filehandle. If specified, and the value is true, it will result in the C<$output> being closed once either the C<close> method is called or the C<IO::Compress::Bzip2>
object is destroyed.

This parameter defaults to 0.

=item C<< Append => 0|1 >>

Opens C<$output> in append mode.

The behaviour of this option is dependent on the type of C<$output>.

=over 5

=item * A Buffer

If C<$output> is a buffer and C<Append> is enabled, all compressed data will be append to the end of C<$output>. Otherwise C<$output> will be cleared before any data is written to it.

=item * A Filename

If C<$output> is a filename and C<Append> is enabled, the file will be opened in append mode. Otherwise the contents of the file, if any, will be truncated before any compressed data is written to it.

=item * A Filehandle

If C<$output> is a filehandle, the file pointer will be positioned to the end of the file via a call to C<seek> before any compressed data is written to it. Otherwise the file pointer will not be moved.

=back

This parameter defaults to 0.

=item C<< BlockSize100K => number >>

Specify the number of 100K blocks bzip2 uses during compression.

Valid values are from 1 to 9, where 9 is best compression.

The default is 1.

=item C<< WorkFactor => number >>

Specifies how much effort bzip2 should take before resorting to a slower fallback compression algorithm.

Valid values range from 0 to 250, where 0 means use the default value 30.
The default is 0.

=item C<< Strict => 0|1 >>

This is a placeholder option.

=back

=head2 Examples

TODO

=head1 Methods

=head2 print

Usage is

$z->print($data)
print $z $data

Compresses and outputs the contents of the C<$data> parameter. This has the same behaviour as the C<print> built-in.

Returns true if successful.

=head2 printf

Usage is

$z->printf($format, $data)
printf $z $format, $data

Compresses and outputs the contents of the C<$data> parameter.

Returns true if successful.

=head2 syswrite

Usage is

$z->syswrite $data
$z->syswrite $data, $length
$z->syswrite $data, $length, $offset

Compresses and outputs the contents of the C<$data> parameter.
Returns the number of uncompressed bytes written, or C<undef> if unsuccessful.

=head2 write

Usage is

$z->write $data
$z->write $data, $length
$z->write $data, $length, $offset

Compresses and outputs the contents of the C<$data> parameter.

Returns the number of uncompressed bytes written, or C<undef> if unsuccessful.

=head2 flush

Usage is

$z->flush;

Flushes any pending compressed data to the output file/buffer.

TODO

Returns true on success.

=head2 tell

Usage is

$z->tell()
tell $z

Returns the uncompressed file offset.

=head2 eof

Usage is

$z->eof();
eof($z);

Returns true if the C<close> method has been called.

=head2 seek
$z->seek($position, $whence);
seek($z, $position, $whence);

Provides a sub-set of the C<seek> functionality, with the restriction
that it is only legal to seek forward in the output file/buffer.
It is a fatal error to attempt to seek backward.

Empty parts of the file/buffer will have NULL (0x00) bytes written to them.

The C<$whence> parameter takes one the usual values, namely SEEK_SET,
SEEK_CUR or SEEK_END.

Returns 1 on success, 0 on failure.

=head2 binmode

Usage is

$z->binmode
binmode $z ;

This is a noop provided for completeness.

=head2 opened

$z->opened()

Returns true if the object currently refers to a opened file/buffer.

=head2 autoflush

my $prev = $z->autoflush()
my $prev = $z->autoflush(EXPR)

If the C<$z> object is associated with a file or a filehandle, this method
returns the current autoflush setting for the underlying filehandle. If
C<EXPR> is present, and is non-zero, it will enable flushing after every
write/print operation.

If C<$z> is associated with a buffer, this method has no effect and always
returns C<undef>.

B<Note> that the special variable C<$|> B<cannot> be used to set or
retrieve the autoflush setting.

=head2 input_line_number

$z->input_line_number()
$z->input_line_number(EXPR)

This method always returns \texttt{C<undef>} when compressing.

=head2 fileno

$z->fileno()
fileno($z)

If the \texttt{C<$z>} object is associated with a file or a filehandle, \texttt{C<fileno>} will return the underlying file descriptor. Once the \texttt{C<close>} method is called \texttt{C<fileno>} will return \texttt{C<undef>}. If the \texttt{C<$z>} object is associated with a buffer, this method will return \texttt{C<undef>}. 

=head2 close

$z->close() ;
close $z ;

Flushes any pending compressed data and then closes the output file/buffer.

For most versions of Perl this method will be automatically invoked if the \texttt{IO::Compress::Bzip2} object is destroyed (either explicitly or by the variable with the reference to the object going out of scope). The exceptions are Perl versions 5.005 through 5.00504 and 5.8.0. In these cases, the \texttt{C<close>} method will be called automatically, but not until global destruction of all live objects when the program is terminating.

Therefore, if you want your scripts to be able to run on all versions of Perl, you should call \texttt{C<close>} explicitly and not rely on automatic closing.

Returns true on success, otherwise 0.

If the \texttt{C<AutoClose>} option has been enabled when the \texttt{IO::Compress::Bzip2} object was created, and the object is associated with a file, the underlying file will also be closed.

=head2 newStream([OPTS])

Usage is

$z->newStream([OPTS])

Closes the current compressed data stream and starts a new one.
OPTS consists of any of the options that are available when creating the C<$z> object.

See the L</"Constructor Options"> section for more details.

=head1 Importing

No symbolic constants are required by this IO::Compress::Bzip2 at present.

=over 5

=item :all

Imports C<bzip2> and C<$Bzip2Error>.
Same as doing this

    use IO::Compress::Bzip2 qw(bzip2 $Bzip2Error) ;

=back

=head1 EXAMPLES

=head2 Apache::GZip Revisited

See L<IO::Compress::FAQ|IO::Compress::FAQ/"Apache::GZip Revisited”>

=head2 Working with Net::FTP

See L<IO::Compress::FAQ|IO::Compress::FAQ/"Compressed files and Net::FTP”>

=head1 SEE ALSO

L<Compress::Zlib>, L<IO::Compress::Gzip>, L<IO::Uncompress::Gunzip>, L<IO::Compress::Deflate>,
L<IO::Uncompress::Inflate>, L<IO::Compress::RawDeflate>, L<IO::Uncompress::RawInflate>,
L<IO::Uncompress::Bunzip2>, L<IO::Compress::Lzma>, L<IO::Uncompress::UnLzma>, L<IO::Compress::Xz>,
L<IO::Uncompress::UnXz>, L<IO::Compress::Lzop>, L<IO::Uncompress::UnLzop>, L<IO::Compress::Lzf>,
L<IO::Uncompress::UnLzf>, L<IO::Uncompress::AnyInflate>, L<IO::Uncompress::AnyUncompress>,
L<IO::Compress::FAQ|IO::Compress::FAQ>

L<File::GlobMapper|File::GlobMapper>, L<Archive::Zip|Archive::Zip>,
L<Archive::Tar|Archive::Tar>,
L<IO::Zlib|IO::Zlib>

The primary site for the bzip2 program is L<http://www.bzip.org>.

See the module L<Compress::Bzip2|Compress::Bzip2>
=head1 AUTHOR

This module was written by Paul Marquess, C<pmqs@cpan.org>.

=head1 MODIFICATION HISTORY

See the Changes file.

=head1 COPYRIGHT AND LICENSE

Copyright (c) 2005-2018 Paul Marquess. All rights reserved.

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=head1 NAME

Compress::Zlib - Interface to zlib compression library

=head1 SYNOPSIS

use Compress::Zlib ;

($d, $status) = deflateInit( [OPT] ) ;
$status = $d->deflate($input, $output) ;
$status = $d->flush([$flush_type]) ;
$d->deflateParams(OPTS) ;
$d->deflateTune(OPTS) ;
$d->dict_adler() ;
$d->crc32() ;
$d->adler32() ;
$d->total_in() ;
$d->total_out() ;
$d->msg() ;
$d->get_Strategy();
$d->get_Level();
$d->get_BufSize();

($i, $status) = inflateInit( [OPT] ) ;
$status = $i->inflate($input, $output [, $eof]) ;
$status = $i->inflateSync($input) ;

Open Source Used In APIC-SE-BATMAN 2.1.1d 18909
$i->dict_adler() ;
$d->crc32() ;
$d->adler32() ;
$i->total_in() ;
$i->total_out() ;
$i->msg() ;
$d->get_BufSize() ;

$dest = compress($source) ;
$dest = uncompress($source) ;

$gz = gzopen($filename or filehandle, $mode) ;
$bytesread = $gz->gzread($buffer [,size]) ;
$byteswritten = $gz->gzwrite($buffer) ;
$byteswritten = $gz->gzreadline($line) ;
$status = $gz->gzflush($flush) ;
$offset = $gz->gtell() ;
$status = $gz->gzseek($offset, $whence) ;
$status = $gz->gzclose() ;
$status = $gz->gzof() ;
$status = $gz->gzsetparams($level, $strategy) ;
$errstring = $gz->gzerror() ;
$gzerrno

$dest = Compress::Zlib::memGzip($buffer) ;
$dest = Compress::Zlib::memGunzip($buffer) ;

$crc = adler32($buffer [,crc]) ;
$crc = crc32($buffer [,crc]) ;
$crc = crc32_combine($crc1, $crc2, $len2);
$adler = adler32_combine($adler1, $adler2, $len2);

my $version = Compress::Raw::Zlib::zlib_version();

=head1 DESCRIPTION

The I<Compress::Zlib> module provides a Perl interface to the I<zlib> compression library (see L</AUTHOR> for details about where to get I<zlib>).

The C<Compress::Zlib> module can be split into two general areas of functionality, namely a simple read/write interface to I<gzip> files and a low-level in-memory compression/decompression interface.

Each of these areas will be discussed in the following sections.

=head2 Notes for users of Compress::Zlib version 1
The main change in C<Compress::Zlib> version 2.x is that it does not now interface directly to the zlib library. Instead it uses the C<IO::Compress::Gzip> and C<IO::Uncompress::Gunzip> modules for reading/writing gzip files, and the C<Compress::Raw::Zlib> module for some low-level zlib access.

The interface provided by version 2 of this module should be 100% backward compatible with version 1. If you find a difference in the expected behaviour please contact the author (See L</AUTHOR>). See L<GZIP INTERFACE>

With the creation of the C<IO::Compress> and C<IO::Uncompress> modules no new features are planned for C<Compress::Zlib> - the new modules do everything that C<Compress::Zlib> does and then some. Development on C<Compress::Zlib> will be limited to bug fixes only.

If you are writing new code, your first port of call should be one of the new C<IO::Compress> or C<IO::Uncompress> modules.

=head1 GZIP INTERFACE

A number of functions are supplied in I<zlib> for reading and writing I<gzip> files that conform to RFC 1952. This module provides an interface to most of them.

If you have previously used C<Compress::Zlib> 1.x, the following enhancements/changes have been made to the C<gzopen> interface:

=over 5

=item 1

If you want to open either STDIN or STDOUT with C<gzopen>, you can now optionally use the special filename "C<->" as a synonym for C<\*STDIN> and C<\*STDOUT>.

=item 2

In C<Compress::Zlib> version 1.x, C<gzopen> used the zlib library to open the underlying file. This made things especially tricky when a Perl filehandle was passed to C<gzopen>. Behind the scenes the numeric C file descriptor had to be extracted from the Perl filehandle and this passed to the zlib library.

Apart from being non-portable to some operating systems, this made it difficult to use C<gzopen> in situations where you wanted to extract/create a gzip data stream that is embedded in a larger file, without having to resort to opening and closing the file multiple times.
It also made it impossible to pass a perl filehandle that wasn't associated with a real filesystem file, like, say, an C<IO::String>.

In C<Compress::Zlib> version 2.x, the C<gzopen> interface has been completely rewritten to use the L<IO::Compress::Gzip> for writing gzip files and L<IO::Uncompress::Gunzip> for reading gzip files. None of the limitations mentioned above apply.

=item 3

Addition of C<gzseek> to provide a restricted C<seek> interface.

=item 4.

Added C<gztell>.

=back

A more complete and flexible interface for reading/writing gzip files/buffers is included with the module C<IO-Compress-Zlib>. See L<IO::Compress::Gzip> and L<IO::Uncompress::Gunzip> for more details.

=item B<$gz = gzopen($filename, $mode)> 

This function opens either the I<gzip> file C<$filename> for reading or writing or attaches to the opened filehandle, C<$filehandle>. It returns an object on success and C<undef> on failure.

When writing a gzip file this interface will I<always> create the smallest possible gzip header (exactly 10 bytes). If you want greater control over what gets stored in the gzip header (like the original filename or a comment) use L<IO::Compress::Gzip> instead. Similarly if you want to read the contents of the gzip header use L<IO::Uncompress::Gunzip>.

The second parameter, C<$mode>, is used to specify whether the file is opened for reading or writing and to optionally specify a compression level and compression strategy when writing. The format of the C<$mode> parameter is similar to the mode parameter to the 'C' function C<fopen>, so "rb" is used to open for reading, "wb" for writing and "ab" for appending (writing at the end of the file).
To specify a compression level when writing, append a digit between 0 and 9 to the mode string -- 0 means no compression and 9 means maximum compression. If no compression level is specified Z_DEFAULT_COMPRESSION is used.

To specify the compression strategy when writing, append 'f' for filtered data, 'h' for Huffman only compression, or 'R' for run-length encoding. If no strategy is specified Z_DEFAULT_STRATEGY is used.

So, for example, "wb9" means open for writing with the maximum compression using the default strategy and "wb4R" means open for writing with compression level 4 and run-length encoding.

Refer to the I<zlib> documentation for the exact format of the C<$mode> parameter.

=item B<$bytesread = $gz-E<gt>gzread($buffer [, $size]) ;>

Reads C<$size> bytes from the compressed file into C<$buffer>. If C<$size> is not specified, it will default to 4096. If the scalar C<$buffer> is not large enough, it will be extended automatically.

Returns the number of bytes actually read. On EOF it returns 0 and in the case of an error, -1.

=item B<$bytesread = $gz-E<gt>gzreadline($line) ;>

Reads the next line from the compressed file into C<$line>.

Returns the number of bytes actually read. On EOF it returns 0 and in the case of an error, -1.

It is legal to intermix calls to C<gzread> and C<gzreadline>.

To maintain backward compatibility with version 1.x of this module C<gzreadline> ignores the C<$/> variable - it I<always> uses the string C<"\n"> as the line delimiter.

If you want to read a gzip file a line at a time and have it respect the C<$/> variable (or C<$INPUT_RECORD_SEPARATOR>, or C<$RS> when C<English> is in use) see L<IO::Uncompress::Gunzip|IO::Uncompress::Gunzip>.

=item B<$byteswritten = $gz-E<gt>gzwrite($buffer) ;>

Writes the contents of C<$buffer> to the compressed file. Returns the number of bytes actually written, or 0 on error.

=item B<$status = $gz-E<gt>gzflush($flush_type) ;>
Flushes all pending output into the compressed file.

This method takes an optional parameter, C<$flush_type>, that controls how the flushing will be carried out. By default the C<$flush_type> used is C<Z_FINISH>. Other valid values for C<$flush_type> are C<Z_NO_FLUSH>, C<Z_SYNC_FLUSH>, C<Z_FULL_FLUSH> and C<Z_BLOCK>. It is strongly recommended that you only set the C<$flush_type> parameter if you fully understand the implications of what it does - overuse of C<$flush> can seriously degrade the level of compression achieved. See the C<zlib> documentation for details.

Returns 0 on success.

=item B <$offset = $gz-E<gt>gztell() ;>

Returns the uncompressed file offset.

=item B <$status = $gz-E<gt>gzseek($offset, $whence) ;>

Provides a sub-set of the C<seek> functionality, with the restriction that it is only legal to seek forward in the compressed file. It is a fatal error to attempt to seek backward.

When opened for writing, empty parts of the file will have NULL (0x00) bytes written to them.

The C<$whence> parameter should be one of SEEK_SET, SEEK_CUR or SEEK_END.

Returns 1 on success, 0 on failure.

=item B <$gz-E<gt>gzclose>

Closes the compressed file. Any pending data is flushed to the file before it is closed.

Returns 0 on success.

=item B <$gz-E<gt>gzsetparams($level, $strategy>

Change settings for the deflate stream C<$gz>.

The list of the valid options is shown below. Options not specified will remain unchanged.

Note: This method is only available if you are running zlib 1.0.6 or better.

=over 5
=item B<$level>

Defines the compression level. Valid values are 0 through 9, 
C<$Z_NO_COMPRESSION>, C<$Z_BEST_SPEED>, C<$Z_BEST_COMPRESSION>, and 
C<$Z_DEFAULT_COMPRESSION>.

=back

=item B<$strategy>

Defines the strategy used to tune the compression. The valid values are 
C<$Z_DEFAULT_STRATEGY>, C<$Z_FILTERED> and C<$Z_HUFFMAN_ONLY>.

=back

=item B<$gz-E<gt>gzerror>

Returns the I<zlib> error message or number for the last operation 
associated with C<$gz>. The return value will be the I<zlib> error 
number when used in a numeric context and the I<zlib> error message 
when used in a string context. The I<zlib> error number constants, 
shown below, are available for use.

  Z_OK
  Z_STREAM_END
  Z_ERRNO
  Z_STREAM_ERROR
  Z_DATA_ERROR
  Z_MEM_ERROR
  Z_BUF_ERROR

=item B<$gzerrno>

The C<$gzerrno> scalar holds the error code associated with the most 
recent I<gzip> routine. Note that unlike C<gzerror>(), the error is 
I<not> associated with a particular file.

As with C<gzerror()> it returns an error number in numeric context and 
an error message in string context. Unlike C<gzerror()> though, the 
error message will correspond to the I<zlib> message when the error is 
associated with I<zlib> itself, or the UNIX error message when it is 
not (i.e. I<zlib> returned C<$Z_ERRORNO>).

As there is an overlap between the error numbers used by I<zlib> and 
UNIX, C<$gzerrno> should only be used to check for the presence of 
I<an> error in numeric context. Use C<gzerror()> to check for specific 
I<zlib> errors. The I<gzcat> example below shows how the variable can 
be used safely.
=back

=head2 Examples

Here is an example script which uses the interface. It implements a
I<gzcat> function.

```perl
use strict ;
use warnings ;

use Compress::Zlib ;

# use stdin if no files supplied
@ARGV = '-' unless @ARGV ;

foreach my $file (@ARGV) {
    my $buffer ;
    my $gz = gzopen($file, "rb")
        or die "Cannot open $file: $gzerrno\n" ;

    print $buffer while $gz->gzread($buffer) > 0 ;

die "Error reading from $file: $gzerrno . ($gzerrno+0) . \n"
    if $gzerrno != Z_STREAM_END ;

    $gz->gzclose() ;
}
```

Below is a script which makes use of C<gzreadline>. It implements a
very simple I<grep> like script.

```perl
use strict ;
use warnings ;

use Compress::Zlib ;

die "Usage: gzgrep pattern [file...]\n"
    unless @ARGV >= 1;

my $pattern = shift ;

# use stdin if no files supplied
@ARGV = '-' unless @ARGV ;

foreach my $file (@ARGV) {
    my $gz = gzopen($file, "rb")
        or die "Cannot open $file: $gzerrno\n" ;
```
while ($gz->gzreadline($_) > 0) {
    print if /$pattern/ ;
}

die "Error reading from $file: $gzerrno\n"
    if $gzerrno != Z_STREAM_END ;

$gz->gzclose() ;

This script, I<gzstream>, does the opposite of the I<gzcat> script above. It reads from standard input and writes a gzip data stream to standard output.

use strict ;
use warnings ;
use Compress::Zlib ;
binmode STDOUT;  # gzopen only sets it on the fd

my $gz = gzopen('銮STDOUT, "wb")
    or die "Cannot open stdout: $gzerrno\n" ;

while (<>)
    {
    $gz->gzwrite($_)
        or die "error writing: $gzerrno\n" ;
    }

$gz->gzclose ;

=head2 Compress::Zlib::memGzip

This function is used to create an in-memory gzip file with the minimum possible gzip header (exactly 10 bytes).

$dest = Compress::Zlib::memGzip($buffer)
    or die "Cannot compress: $gzerrno\n";

If successful, it returns the in-memory gzip file. Otherwise it returns C<undef> and the C<$gzerrno> variable will store the zlib error code.

The C<$buffer> parameter can either be a scalar or a scalar reference.

See L<IO::Compress::Gzip|IO::Compress::Gzip> for an alternative way to carry out in-memory gzip compression.
Compress::Zlib::memGunzip

This function is used to uncompress an in-memory gzip file.

$dest = Compress::Zlib::memGunzip($buffer)
    or die "Cannot uncompress: $gzerrno\n";

If successful, it returns the uncompressed gzip file. Otherwise it returns C<undef> and the C<$gzerrno> variable will store the zlib error code.

The C<$buffer> parameter can either be a scalar or a scalar reference. The contents of the C<$buffer> parameter are destroyed after calling this function.

If C<$buffer> consists of multiple concatenated gzip data streams only the first will be uncompressed. Use C<gunzip> with the C<MultiStream> option in the C<IO::Uncompress::Gunzip> module if you need to deal with concatenated data streams.

See L<IO::Uncompress::Gunzip[IO::Uncompress::Gunzip>] for an alternative way to carry out in-memory gzip uncompression.

COMPRESS/UNCOMPRESS

Two functions are provided to perform in-memory compression/uncompression of RFC 1950 data streams. They are called C<compress> and C<uncompress>.

$dest = compress($source [, $level] );

Compresses C<$source>. If successful it returns the compressed data. Otherwise it returns I<undef>.

The source buffer, C<$source>, can either be a scalar or a scalar reference.

The C<$level> parameter defines the compression level. Valid values are 0 through 9, C<Z_NO_COMPRESSION>, C<Z_BEST_SPEED>, C<Z_BEST_COMPRESSION>, and C<Z_DEFAULT_COMPRESSION>. If C<$level> is not specified C<Z_DEFAULT_COMPRESSION> will be used.

$dest = uncompress($source );

Uncompresses C<$source>. If successful it returns the uncompressed data. Otherwise it returns I<undef>.

The source buffer can either be a scalar or a scalar reference.
Please note: the two functions defined above are not compatible with the Unix commands of the same name.

See L<IO::Deflate> and L<IO::Inflate> included with this distribution for an alternative interface for reading/writing RFC 1950 files/buffers.

=head1 Deflate Interface

This section defines an interface that allows in-memory compression using the I<deflate> interface provided by zlib.

Here is a definition of the interface available:

=head2 B<($d, $status) = deflateInit( [OPT] )>

Initialises a deflation stream.

It combines the features of the I<zlib> functions C<deflateInit>, C<deflateInit2> and C<deflateSetDictionary>.

If successful, it will return the initialised deflation stream, C<$d> and C<$status> of C<Z_OK> in a list context. In scalar context it returns the deflation stream, C<$d>, only.

If not successful, the returned deflation stream (C<$d>) will be I<undef> and C<$status> will hold the exact I<zlib> error code.

The function optionally takes a number of named options specified as C<< -Name=>value >> pairs. This allows individual options to be tailored without having to specify them all in the parameter list.

For backward compatibility, it is also possible to pass the parameters as a reference to a hash containing the name=>value pairs.

The function takes one optional parameter, a reference to a hash. The contents of the hash allow the deflation interface to be tailored.

Here is a list of the valid options:

=over 5

=item B<-Level>

Defines the compression level. Valid values are 0 through 9,
C<Z_NO_COMPRESSION>, C<Z_BEST_SPEED>, C<Z_BEST_COMPRESSION>, and C<Z_DEFAULT_COMPRESSION>.

The default is Z_DEFAULT_COMPRESSION.

=item B<-Method>

Defines the compression method. The only valid value at present (and the default) is Z_DEFLATED.

=item B<-WindowBits>

To create an RFC 1950 data stream, set C<WindowBits> to a positive number.

To create an RFC 1951 data stream, set C<WindowBits> to C<-MAX_WBITS>.

For a full definition of the meaning and valid values for C<WindowBits> refer to the I<zlib> documentation for I<deflateInit2>.

Defaults to MAX_WBITS.

=item B<-MemLevel>

For a definition of the meaning and valid values for C<MemLevel> refer to the I<zlib> documentation for I<deflateInit2>.

Defaults to MAX_MEM_LEVEL.

=item B<-Strategy>

Defines the strategy used to tune the compression. The valid values are C<Z_DEFAULT_STRATEGY>, C<Z_FILTERED> and C<Z_HUFFMAN_ONLY>.

The default is Z_DEFAULT_STRATEGY.

=item B<-Dictionary>

When a dictionary is specified I<Compress::Zlib> will automatically call C<deflateSetDictionary> directly after calling C<deflateInit>. The Adler32 value for the dictionary can be obtained by calling the method C<$d->dict_adler()>.

The default is no dictionary.

=item B<-Bufsize>

Sets the initial size for the deflation buffer. If the buffer has to be reallocated to increase the size, it will grow in increments of
The default is 4096.

Here is an example of using the C<deflateInit> optional parameter list to override the default buffer size and compression level. All other options will take their default values.

```perl
deflateInit( -Bufsize => 300, 
            -Level => Z_BEST_SPEED ) ;
```

Deflates the contents of C<$buffer>. The buffer can either be a scalar or a scalar reference. When finished, C<$buffer> will be completely processed (assuming there were no errors). If the deflation was successful it returns the deflated output, C<$out>, and a status value, C<$status>, of C<Z_OK>.

On error, C<$out> will be I<undef> and C<$status> will contain the I<zlib> error code.

In a scalar context C<deflate> will return C<$out> only.

As with the I<deflate> function in I<zlib>, it is not necessarily the case that any output will be produced by this method. So don't rely on the fact that C<$out> is empty for an error test.

```perl
=head2 ($out, $status) = $d>deflate($buffer)

=head2 ($out, $status) = $d>flush()

=head2 ($out, $status) = $d>flush($flush_type)
```

Typically used to finish the deflation. Any pending output will be returned via C<$out>. C<$status> will have a value C<Z_OK> if successful.

In a scalar context C<flush> will return C<$out> only.

Note that flushing can seriously degrade the compression ratio, so it should only be used to terminate a decompression (using C<Z_FINISH>) or when you want to create a I<full flush point> (using C<Z_FULL_FLUSH>).

By default the C<flush_type> used is C<Z_FINISH>. Other valid values for C<flush_type> are C<Z_NO_FLUSH>, C<Z_PARTIAL_FLUSH>, C<Z_SYNC_FLUSH> and C<Z_FULL_FLUSH>. It is strongly recommended that you only set the C<flush_type> parameter if you fully understand the implications of what it does. See the C<zlib> documentation for details.
Change settings for the deflate stream C<$d>.

The list of the valid options is shown below. Options not specified will remain unchanged.

=item B<-Level>

Defines the compression level. Valid values are 0 through 9,
C<Z_NO_COMPRESSION>, C<Z_BEST_SPEED>, C<Z_BEST_COMPRESSION>, and
C<Z_DEFAULT_COMPRESSION>.

=item B<-Strategy>

Defines the strategy used to tune the compression. The valid values are
C<Z_DEFAULT_STRATEGY>, C<Z_FILTERED> and C<Z_HUFFMAN_ONLY>.

Returns the adler32 value for the dictionary.

Example

Here is a trivial example of using C<deflate>. It simply reads standard input, deflates it and writes it to standard output.

use strict ;
use warnings ;
use Compress::Zlib ;
binmode STDIN;
binmode STDOUT;
my $x = deflateInit()
or die "Cannot create a deflation stream\n" ;

my ($output, $status) ;
while (<>)
{
  ($output, $status) = $x->deflate($_) ;

  $status == Z_OK
  or die "deflation failed\n" ;

  print $output ;
}

($output, $status) = $x->flush() ;

$status == Z_OK
or die "deflation failed\n" ;

print $output ;

=head1 Inflate Interface

This section defines the interface available that allows in-memory
uncompression using the I<deflate> interface provided by zlib.

Here is a definition of the interface:

=head2 B<($i, $status) = inflateInit()>

Initialises an inflation stream.

In a list context it returns the inflation stream, C<$i>, and the
I<zlib> status code in C<$status>. In a scalar context it returns the
inflation stream only.

If successful, C<$i> will hold the inflation stream and C<$status> will
be C<Z_OK>.

If not successful, C<$i> will be I<undef> and C<$status> will hold the
I<zlib> error code.

The function optionally takes a number of named options specified as
C<< -Name=>value >> pairs. This allows individual options to be
tailored without having to specify them all in the parameter list.
For backward compatibility, it is also possible to pass the parameters as a reference to a hash containing the name=>value pairs.

The function takes one optional parameter, a reference to a hash. The contents of the hash allow the deflation interface to be tailored.

Here is a list of the valid options:

=over 5
=item B<-WindowBits>

To uncompress an RFC 1950 data stream, set C<WindowBits> to a positive number.

To uncompress an RFC 1951 data stream, set C<WindowBits> to C<-MAX_WBITS>.

For a full definition of the meaning and valid values for C<WindowBits> refer to the I<zlib> documentation for I<inflateInit2>.

Defaults to MAX_WBITS.

=item B<-Bufsize>

Sets the initial size for the inflation buffer. If the buffer has to be reallocated to increase the size, it will grow in increments of C<Bufsize>.

Default is 4096.

=item B<-Dictionary>

The default is no dictionary.

=back

Here is an example of using the C<inflateInit> optional parameter to override the default buffer size.

    inflateInit( -Bufsize => 300 ) ;

=head2 B<($out, $status) = $i-E<gt>inflate($buffer)>

Inflates the complete contents of C<$buffer>. The buffer can either be a scalar or a scalar reference.

Returns C<Z_OK> if successful and C<Z_STREAM_END> if the end of the compressed data has been successfully reached.
If not successful, C<$out> will be I<undef> and C<$status> will hold the I<zlib> error code.

The C<$buffer> parameter is modified by C<inflate>. On completion it will contain what remains of the input buffer after inflation. This means that C<$buffer> will be an empty string when the return status is C<Z_OK>. When the return status is C<Z_STREAM_END> the C<$buffer> parameter will contains what (if anything) was stored in the input buffer after the deflated data stream.

This feature is useful when processing a file format that encapsulates a compressed data stream (e.g. gzip, zip).

=head2 B<$status = $i-E<gt>inflateSync($buffer)>

Scans C<$buffer> until it reaches either a I<full flush point> or the end of the buffer.

If a I<full flush point> is found, C<Z_OK> is returned and C<$buffer> will be have all data up to the flush point removed. This can then be passed to the C<deflate> method.

Any other return code means that a flush point was not found. If more data is available, C<inflateSync> can be called repeatedly with more compressed data until the flush point is found.

=head2 B<$i-E<gt>dict_adler()>

Returns the adler32 value for the dictionary.

=head2 B<$i-E<gt>msg()>

Returns the last error message generated by zlib.

=head2 B<$i-E<gt>total_in()>

Returns the total number of bytes compressed bytes input to inflate.

=head2 B<$i-E<gt>total_out()>

Returns the total number of uncompressed bytes output from inflate.

=head2 Example

Here is an example of using C<inflate>.

    use strict ;
    use warnings ;
use Compress::Zlib;

my $x = inflateInit();
   or die "Cannot create a inflation stream\n";

my $input = "";
binnode STDIN;
binnode STDOUT;

my ($output, $status);  
while (read(STDIN, $input, 4096))
{
   ($output, $status) = $x->inflate($input);

   print $output
      if $status == Z_OK or $status == Z_STREAM_END;
   last if $status != Z_OK;
}

die "inflation failed\n"
   unless $status == Z_STREAM_END;

=head1 CHECKSUM FUNCTIONS

Two functions are provided by I<zlib> to calculate checksums. For the Perl interface, the order of the two parameters in both functions has been reversed. This allows both running checksums and one off calculations to be done.

$crc = adler32($buffer [, $crc]);
$crc = crc32($buffer [, $crc]);

The buffer parameters can either be a scalar or a scalar reference.

If the $crc parameters is C<undef>, the crc value will be reset.

If you have built this module with zlib 1.2.3 or better, two more CRC-related functions are available.

$crc = crc32_combine($crc1, $crc2, $len2);
$adler = adler32_combine($adler1, $adler2, $len2);

These functions allow checksums to be merged.

Refer to the I<zlib> documentation for more details.

=head1 Misc
my $version = Compress::Zlib::zlib_version();

Returns the version of the zlib library.

=head1 CONSTANTS

All the I<zlib> constants are automatically imported when you make use of I<Compress::Zlib>.

=head1 SEE ALSO

L<IO::Compress::Gzip>, L<IO::Uncompress::Gunzip>, L<IO::Compress::Deflate>, L<IO::Uncompress::Inflate>,
L<IO::Compress::RawDeflate>, L<IO::Uncompress::RawInflate>, L<IO::Compress::Bzip2>,
L<IO::Uncompress::Bunzip2>, L<IO::Compress::Lzma>, L<IO::Uncompress::UnLzma>, L<IO::Compress::Xz>,
L<IO::Uncompress::UnXz>, L<IO::Compress::Lzop>, L<IO::Uncompress::UnLzop>, L<IO::Compress::Lzf>,
L<IO::Uncompress::UnLzf>, L<IO::Uncompress::AnyInflate>, L<IO::Uncompress::AnyUncompress>

L<IO::Compress::FAQ|IO::Compress::FAQ>

L<File::GlobMapper|File::GlobMapper>, L<Archive::Zip|Archive::Zip>,
L<Archive::Tar|Archive::Tar>,
L<IO::Zlib|IO::Zlib>

For RFC 1950, 1951 and 1952 see
L<http://www.faqs.org/rfcs/rfc1950.html>,
L<http://www.faqs.org/rfcs/rfc1951.html> and

The I<zlib> compression library was written by Jean-loup Gailly
C<gzip@prep.ai.mit.edu> and Mark Adler C<madler@alumni.caltech.edu>.

The primary site for the I<zlib> compression library is

The primary site for gzip is L<http://www.gzip.org>.

=head1 AUTHOR

This module was written by Paul Marquess, C<pmqs@cpan.org>.

=head1 MODIFICATION HISTORY

See the Changes file.

=head1 COPYRIGHT AND LICENSE

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=head1 NAME

IO::Uncompress::Inflate - Read RFC 1950 files/buffers

=head1 SYNOPSIS

use IO::Uncompress::Inflate qw(inflate $InflateError) ;

my $status = inflate $input => $output [,OPTS]
  or die "inflate failed: $InflateError\n";

my $z = new IO::Uncompress::Inflate $input [OPTS]
  or die "inflate failed: $InflateError\n";

$status = $z->read($buffer)
$status = $z->read($buffer, $length)
$status = $z->read($buffer, $length, $offset)
$line = $z->getline()
$char = $z->getc()
$char = $z->ungetc()
$char = $z->opened()

$status = $z->inflateSync()

$data = $z->trailingData()
$status = $z->nextStream()
$data = $z->getHeaderInfo()
$z->tell()
$z->seek($position, $whence)
$z->binmode()
$z->fileno()
$z->eof()
$z->close()

$InflateError ;

# IO::File mode

<$z>
read($z, $buffer);
read($z, $buffer, $length);
read($z, $buffer, $length, $offset);
tell($z)
seek($z, $position, $whence)
binmode($z)
fileno($z)
eof($z)
close($z)

=head1 DESCRIPTION

This module provides a Perl interface that allows the reading of
files/buffers that conform to RFC 1950.

For writing RFC 1950 files/buffers, see the companion module IO::Compress::Deflate.

=head1 Functional Interface

A top-level function, C<inflate>, is provided to carry out
"one-shot" uncompression between buffers and/or files. For finer
control over the uncompression process, see the L</"OO Interface"> section.

use IO::Uncompress::Inflate qw(inflate $InflateError) ;

inflate $input_filename_or_reference => $output_filename_or_reference [,OPTS]
or die "inflate failed: $InflateError\n";

The functional interface needs Perl5.005 or better.

=head2 inflate $input_filename_or_reference => $output_filename_or_reference [, OPTS]

C<inflate> expects at least two parameters,
C<$input_filename_or_reference> and C<$output_filename_or_reference>.

=head3 The C<$input_filename_or_reference> parameter

The parameter, C<$input_filename_or_reference>, is used to define the source of the compressed data.

It can take one of the following forms:

=over 5

=item A filename

If the <$input_filename_or_reference> parameter is a simple scalar, it is
assumed to be a filename. This file will be opened for reading and the
input data will be read from it.

=item A filehandle

If the C<$input_filename_or_reference> parameter is a filehandle, the input
data will be read from it. The string '-' can be used as an alias for
standard input.

=item A scalar reference

If C<$input_filename_or_reference> is a scalar reference, the input data
will be read from C<$input_filename_or_reference>.

=item An array reference

If C<$input_filename_or_reference> is an array reference, each element in
the array must be a filename.

The input data will be read from each file in turn.

The complete array will be walked to ensure that it only
contains valid filenames before any data is uncompressed.

=item An Input FileGlob string

If C<$input_filename_or_reference> is a string that is delimited by the
characters "<" and ">" C<$infl> will assume that it is an
I<input fileglob string>. The input is the list of files that match the
fileglob.

See L<File::GlobMapper|File::GlobMapper> for more details.

=back

If the C<$input_filename_or_reference> parameter is any other type,
C<undef> will be returned.

=head3 The C<$output_filename_or_reference> parameter

The parameter C<$output_filename_or_reference> is used to control the
destination of the uncompressed data. This parameter can take one of
these forms.

=over 5

=item A filename
If the `$output_filename_or_reference` parameter is a simple scalar, it is assumed to be a filename. This file will be opened for writing and the uncompressed data will be written to it.

=item A filehandle

If the `$output_filename_or_reference` parameter is a filehandle, the uncompressed data will be written to it. The string `-` can be used as an alias for standard output.

=item A scalar reference

If `$output_filename_or_reference` is a scalar reference, the uncompressed data will be stored in `$output_filename_or_reference`.

=item An Array Reference

If `$output_filename_or_reference` is an array reference, the uncompressed data will be pushed onto the array.

=item An Output FileGlob

If `$output_filename_or_reference` is a string that is delimited by the characters "<" and ">" `$inflate` will assume that it is an I<output fileglob string>. The output is the list of files that match the fileglob.

When `$output_filename_or_reference` is an fileglob string, `$input_filename_or_reference` must also be a fileglob string. Anything else is an error.

See L<File::GlobMapper|File::GlobMapper> for more details.

=back

If the `$output_filename_or_reference` parameter is any other type, `$undef` will be returned.

=head2 Notes

When `$input_filename_or_reference` maps to multiple compressed files/buffers and `$output_filename_or_reference` is a single file/buffer, after uncompression `$output_filename_or_reference` will contain a concatenation of all the uncompressed data from each of the input files/buffers.

=head2 Optional Parameters
Unless specified below, the optional parameters for `C<inflate>`, `C<OPTS>`, are the same as those used with the OO interface defined in the L<"Constructor Options"> section below.

=over 5

=item C<< AutoClose => 0|1 >>

This option applies to any input or output data streams to `C<inflate>` that are filehandles.

If `C<AutoClose>` is specified, and the value is true, it will result in all input and/or output filehandles being closed once `C<inflate>` has completed.

This parameter defaults to 0.

=item C<< BinModeOut => 0|1 >>

When writing to a file or filehandle, set `C<binmode>` before writing to the file.

Defaults to 0.

=item C<< Append => 0|1 >>

The behaviour of this option is dependent on the type of output data stream.

=over 5

=item * A Buffer

If `C<Append>` is enabled, all uncompressed data will be append to the end of the output buffer. Otherwise the output buffer will be cleared before any uncompressed data is written to it.

=item * A Filename

If `C<Append>` is enabled, the file will be opened in append mode. Otherwise the contents of the file, if any, will be truncated before any uncompressed data is written to it.

=item * A Filehandle

If `C<Append>` is enabled, the filehandle will be positioned to the end of the file via a call to `C<seek>` before any uncompressed data is written to it. Otherwise the file pointer will not be moved.
When C<Append> is specified, and set to true, it will I<append> all uncompressed data to the output data stream.

So when the output is a filehandle it will carry out a seek to the eof before writing any uncompressed data. If the output is a filename, it will be opened for appending. If the output is a buffer, all uncompressed data will be appended to the existing buffer.

Conversely when C<Append> is not specified, or it is present and is set to false, it will operate as follows.

When the output is a filename, it will truncate the contents of the file before writing any uncompressed data. If the output is a filehandle its position will not be changed. If the output is a buffer, it will be wiped before any uncompressed data is output.

Defaults to 0.

=item C<< MultiStream => 0|1 >>

If the input file/buffer contains multiple compressed data streams, this option will uncompress the whole lot as a single data stream.

Defaults to 0.

=item C<< TrailingData => $scalar >>

Returns the data, if any, that is present immediately after the compressed data stream once uncompression is complete.

This option can be used when there is useful information immediately following the compressed data stream, and you don't know the length of the compressed data stream.

If the input is a buffer, C<trailingData> will return everything from the end of the compressed data stream to the end of the buffer.

If the input is a filehandle, C<trailingData> will return the data that is left in the filehandle input buffer once the end of the compressed data stream has been reached. You can then use the filehandle to read the rest of the input file.

Don't bother using C<trailingData> if the input is a filename.

If you know the length of the compressed data stream before you start
uncompressing, you can avoid having to use \texttt{C\textbackslash{trailingData}} by setting the \texttt{C\textbackslash{InputLength}} option.

=head2 Examples

To read the contents of the file \texttt{C\textbackslash{file1.txt.1950}} and write the uncompressed data to the file \texttt{C\textbackslash{file1.txt}}.

```perl
use strict;
use warnings;
use IO::Uncompress::Inflate qw(inflate $InflateError);

my $input = "file1.txt.1950";
my $output = "file1.txt";
inflate $input => $output
    or die "inflate failed: $InflateError\n";
```

To read from an existing Perl filehandle, \texttt{C\$input}, and write the uncompressed data to a buffer, \texttt{C\$buffer}.

```perl
use strict;
use warnings;
use IO::Uncompress::Inflate qw(inflate $InflateError);
use IO::File;

my $input = new IO::File "<file1.txt.1950"
    or die "Cannot open 'file1.txt.1950': $!\n";
my $buffer;
inflate $input => \$buffer
    or die "inflate failed: $InflateError\n";
```

To uncompress all files in the directory "/my/home" that match "*.txt.1950" and store the compressed data in the same directory

```perl
use strict;
use warnings;
use IO::Uncompress::Inflate qw(inflate $InflateError);

inflated '<my/home/*.txt.1950>' => '<my/home/#1.txt>'
    or die "inflate failed: $InflateError\n";
```

and if you want to compress each file one at a time, this will do the trick

```perl
use strict;
use warnings;
use IO::Uncompress::Inflate qw(inflate $InflateError);
```
for my $input ( glob "/my/home/*.txt.1950" )
{
    my $output = $input;
    $output =~ s/.1950// ;
    inflate $input => $output
        or die "Error compressing '$input': $InflateError\n";
}

=head1 OO Interface

=head2 Constructor

The format of the constructor for IO::Uncompress::Inflate is shown below

    my $z = new IO::Uncompress::Inflate $input [OPTS]
        or die "IO::Uncompress::Inflate failed: $InflateError\n";

Returns an C<IO::Uncompress::Inflate> object on success and undef on failure.
The variable C<$InflateError> will contain an error message on failure.

If you are running Perl 5.005 or better the object, C<$z>, returned from
IO::Uncompress::Inflate can be used exactly like an L<IO::File|IO::File> filehandle.
This means that all normal input file operations can be carried out with
C<$z>. For example, to read a line from a compressed file/buffer you can
use either of these forms

    $line = $z->getline();
    $line = <$z>

The mandatory parameter C<$input> is used to determine the source of the
compressed data. This parameter can take one of three forms.

=over 5

=item A filename

If the C<$input> parameter is a scalar, it is assumed to be a filename. This
file will be opened for reading and the compressed data will be read from it.

=item A filehandle

If the C<$input> parameter is a filehandle, the compressed data will be
read from it.
The string '-' can be used as an alias for standard input.

=item A scalar reference
If C<$input> is a scalar reference, the compressed data will be read from C<$$input>.

=head2 Constructor Options

The option names defined below are case insensitive and can be optionally prefixed by a ' -'. So all of the following are valid:

- AutoClose
- autoclose
  AUTOCLOSE
  autoclose

OPTS is a combination of the following options:

=item C<< AutoClose => 0|1 >>

This option is only valid when the C<$input> parameter is a filehandle. If specified, and the value is true, it will result in the file being closed once either the C<close> method is called or the IO::Uncompress::Inflate object is destroyed.

This parameter defaults to 0.

=item C<< MultiStream => 0|1 >>

Allows multiple concatenated compressed streams to be treated as a single compressed stream. Decompression will stop once either the end of the file/buffer is reached, an error is encountered (premature eof, corrupt compressed data) or the end of a stream is not immediately followed by the start of another stream.

This parameter defaults to 0.

=item C<< Prime => $string >>

This option will uncompress the contents of C<$string> before processing the input file/buffer.

This option can be useful when the compressed data is embedded in another file/data structure and it is not possible to work out where the compressed data begins without having to read the first few bytes. If this is the case, the uncompression can be I<primed> with these bytes using this option.
=item C<< Transparent => 0|1 >>

If this option is set and the input file/buffer is not compressed data, the module will allow reading of it anyway.

In addition, if the input file/buffer does contain compressed data and there is non-compressed data immediately following it, setting this option will make this module treat the whole file/buffer as a single data stream.

This option defaults to 1.

=item C<< BlockSize => $num >>

When reading the compressed input data, IO::Uncompress::Inflate will read it in blocks of C<$num> bytes.

This option defaults to 4096.

=item C<< InputLength => $size >>

When present this option will limit the number of compressed bytes read from the input file/buffer to C<$size>. This option can be used in the situation where there is useful data directly after the compressed data stream and you know beforehand the exact length of the compressed data stream.

This option is mostly used when reading from a filehandle, in which case the file pointer will be left pointing to the first byte directly after the compressed data stream.

This option defaults to off.

=item C<< Append => 0|1 >>

This option controls what the C<read> method does with uncompressed data.

If set to 1, all uncompressed data will be appended to the output parameter of the C<read> method.

If set to 0, the contents of the output parameter of the C<read> method will be overwritten by the uncompressed data.

Defaults to 0.

=item C<< Strict => 0|1 >>

This option controls whether the extra checks defined below are used when
carrying out the decompression. When Strict is on, the extra tests are
carried out, when Strict is off they are not.

The default for this option is off.

=item 1

The ADLER32 checksum field must be present.

=item 2

The value of the ADLER32 field read must match the adler32 value of the
uncompressed data actually contained in the file.

=head2 Examples

TODO

=head1 Methods

=head2 read

Usage is

$status = $z->read($buffer)

Reads a block of compressed data (the size of the compressed block is
determined by the C<Buffer> option in the constructor), uncompresses it and
writes any uncompressed data into C<$buffer>. If the C<Append> parameter is
set in the constructor, the uncompressed data will be appended to the
C<$buffer> parameter. Otherwise C<$buffer> will be overwritten.

Returns the number of uncompressed bytes written to C<$buffer>, zero if eof
or a negative number on error.

=head2 read

Usage is

$status = $z->read($buffer, $length)
$status = $z->read($buffer, $length, $offset)
$status = read($z, $buffer, $length)
$status = read($z, $buffer, $length, $offset)

Attempt to read C<$length> bytes of uncompressed data into C<$buffer>.

The main difference between this form of the C<read> method and the previous one, is that this one will attempt to return I<exactly> C<$length> bytes. The only circumstances that this function will not is if end-of-file or an IO error is encountered.

Returns the number of uncompressed bytes written to C<$buffer>, zero if eof or a negative number on error.

=head2 getline

Usage is

$line = $z->getline()
$line = <$z>

Reads a single line.

This method fully supports the use of the variable C<$/> (or C<$INPUT_RECORD_SEPARATOR> or C<$RS> when C<English> is in use) to determine what constitutes an end of line. Paragraph mode, record mode and file slurp mode are all supported.

=head2 getc

Usage is

$char = $z->getc()

Read a single character.

=head2 ungetc

Usage is

$char = $z->ungetc($string)

=head2 inflateSync

Usage is

$status = $z->inflateSync()

TODO
getHeaderInfo

Usage is

$hdr = $z->getHeaderInfo();
@hdrs = $z->getHeaderInfo();

This method returns either a hash reference (in scalar context) or a list
or hash references (in array context) that contains information about each
of the header fields in the compressed data stream(s).

tell

Usage is

$z->tell();
tell $z

Returns the uncompressed file offset.

eof

Usage is

$z->eof();
eof($z);

Returns true if the end of the compressed input stream has been reached.

seek

Usage is

$z->seek($position, $whence);
seek($z, $position, $whence);

Provides a sub-set of the C<seek> functionality, with the restriction
that it is only legal to seek forward in the input file/buffer.
It is a fatal error to attempt to seek backward.

Note that the implementation of C<seek> in this module does not provide
true random access to a compressed file/buffer. It works by uncompressing
data from the current offset in the file/buffer until it reaches the
uncompressed offset specified in the parameters to C<seek>. For very small
files this may be acceptable behaviour. For large files it may cause an
unacceptable delay.

The C<$whence> parameter takes one the usual values, namely SEEK_SET,
SEEK_CUR or SEEK_END.
Returns 1 on success, 0 on failure.

=head2 binmode

Usage is

$z->binmode
binmode $z ;

This is a noop provided for completeness.

=head2 opened

$z->opened()

Returns true if the object currently refers to a opened file/buffer.

=head2 autoflush

my $prev = $z->autoflush()
my $prev = $z->autoflush(EXPR)

If the C<$z> object is associated with a file or a filehandle, this method returns the current autoflush setting for the underlying filehandle. If C<EXPR> is present, and is non-zero, it will enable flushing after every write/print operation.

If C<$z> is associated with a buffer, this method has no effect and always returns C<undef>.

B<Note> that the special variable C<$|> B<cannot> be used to set or retrieve the autoflush setting.

=head2 input_line_number

$z->input_line_number()
$z->input_line_number(EXPR)

Returns the current uncompressed line number. If C<EXPR> is present it has the effect of setting the line number. Note that setting the line number does not change the current position within the file/buffer being read.

The contents of C<$/> are used to determine what constitutes a line terminator.

=head2 fileno
$z->fileno()
fileno($z)

If the C<$z> object is associated with a file or a filehandle, C<fileno> will return the underlying file descriptor. Once the C<close> method is called C<fileno> will return C<undef>.

If the C<$z> object is associated with a buffer, this method will return C<undef>.

=head2 close

$z->close();
close $z;

Closes the output file/buffer.

For most versions of Perl this method will be automatically invoked if the IO::Uncompress::Inflate object is destroyed (either explicitly or by the variable with the reference to the object going out of scope). The exceptions are Perl versions 5.005 through 5.00504 and 5.8.0. In these cases, the C<close> method will be called automatically, but not until global destruction of all live objects when the program is terminating.

Therefore, if you want your scripts to be able to run on all versions of Perl, you should call C<close> explicitly and not rely on automatic closing.

Returns true on success, otherwise 0.

If the C<AutoClose> option has been enabled when the IO::Uncompress::Inflate object was created, and the object is associated with a file, the underlying file will also be closed.

=head2 nextStream

Usage is

my $status = $z->nextStream();

Skips to the next compressed data stream in the input file/buffer. If a new compressed data stream is found, the eof marker will be cleared and C<$> will be reset to 0.

Returns 1 if a new stream was found, 0 if none was found, and -1 if an error was encountered.
Usage is

my $data = $z->trailingData();

Returns the data, if any, that is present immediately after the compressed data stream once uncompression is complete. It only makes sense to call this method once the end of the compressed data stream has been encountered.

This option can be used when there is useful information immediately following the compressed data stream, and you don't know the length of the compressed data stream.

If the input is a buffer, C<trailingData> will return everything from the end of the compressed data stream to the end of the buffer.

If the input is a filehandle, C<trailingData> will return the data that is left in the filehandle input buffer once the end of the compressed data stream has been reached. You can then use the filehandle to read the rest of the input file.

Don't bother using C<trailingData> if the input is a filename.

If you know the length of the compressed data stream before you start uncompressing, you can avoid having to use C<trailingData> by setting the C<InputLength> option in the constructor.

=over 5

=item :all

Imports C<inflate> and C<$InflateError>.
Same as doing this

use IO::Uncompress::Inflate qw(inflate $InflateError) ;

=back

=head1 EXAMPLES

=head2 Working with Net::FTP
See L:<IO::Compress::FAQ> for "Compressed files and Net::FTP"

=head1 SEE ALSO

L:<Compress::Zlib>, L:<IO::Compress::Gzip>, L:<IO::Uncompress::Gunzip>, L:<IO::Compress::Deflate>,
L:<IO::Compress::RawDeflate>, L:<IO::Uncompress::RawInflate>, L:<IO::Compress::Bzip2>,
L:<IO::Uncompress::Bunzip2>, L:<IO::Compress::Lzma>, L:<IO::Uncompress::UnLzma>, L:<IO::Compress::Xz>,
L:<IO::Uncompress::UnXz>, L:<IO::Compress::Lzop>, L:<IO::Uncompress::UnLzop>, L:<IO::Compress::Lzf>,
L:<IO::Uncompress::UnLzf>, L:<IO::Uncompress::AnyInflate>, L:<IO::Uncompress::AnyUncompress>

L:<IO::Compress::FAQ>

L:<File::GlobMapper>, L:<Archive::Zip>,
L:<Archive::Tar>,
L:<IO::Zlib>

For RFC 1950, 1951 and 1952 see
L:<http://www.faqs.org/rfcs/rfc1950.html>,
L:<http://www.faqs.org/rfcs/rfc1951.html> and

The I<zlib> compression library was written by Jean-loup Gailly
C<gzip@prep.ai.mit.edu> and Mark Adler C<madler@alumni.caltech.edu>.

The primary site for the I<zlib> compression library is

The primary site for gzip is L:<http://www.gzip.org>.

=head1 AUTHOR

This module was written by Paul Marquess, C<pmqs@cpan.org>.

=head1 MODIFICATION HISTORY

See the Changes file.

=head1 COPYRIGHT AND LICENSE

Copyright (c) 2005-2018 Paul Marquess. 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):
* /opt/cola/permits/1178587419_1625692217.01/etc/perl-IO-Compress-2.081-1.el8-1.src.rpm-cosi-expand-archive-
   oy3VzoZ3/IO-Compress-2.081.tar.gz-cosi-expand-archive-vIwBVDwrW/IO-Compress-
   2.081/lib/IO/Uncompress/Inflate.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

IO::Compress::Deflate - Write RFC 1950 files/buffers

=head1 SYNOPSIS

use IO::Compress::Deflate qw(deflate $DeflateError) ;

my $status = deflate $input => $output [,OPTS]
  or die "deflate failed: $DeflateError\n";

my $z = new IO::Compress::Deflate $output [,OPTS]
  or die "deflate failed: $DeflateError\n";

$z->print($string);
$z->printf($format, $string);
$z->write($string);
$z->syswrite($string [, $length, $offset]);
$z->flush();
$z->tell();
$z->eof();
$z->seek($position, $whence);
$z->binmode();
$z->fileno();
$z->opened();
$z->autoflush();
$z->input_line_number();
$z->newStream([OPTS]);

$z->deflateParams();

$z->close() ;

$DeflateError ;

# IO::File mode

print $z $string;
printf $z $format, $string;
tell $z
eof $z
seek $z, $position, $whence
binmode $z
fileno $z
close $z ;
=head1 DESCRIPTION

This module provides a Perl interface that allows writing compressed data to files or buffers as defined in RFC 1950.

For reading RFC 1950 files/buffers, see the companion module L<IO::Uncompress::Inflate|IO::Uncompress::Inflate>.

=head1 Functional Interface

A top-level function, C<deflate>, is provided to carry out "one-shot" compression between buffers and/or files. For finer control over the compression process, see the L</"OO Interface"> section.

use IO::Compress::Deflate qw(deflate $DeflateError) ;

deflate $input_filename_or_reference => $output_filename_or_reference [,OPTS]
or die "deflate failed: $DeflateError\n";

The functional interface needs Perl 5.005 or better.

=head2 deflate $input_filename_or_reference => $output_filename_or_reference [, OPTS]

C<deflate> expects at least two parameters, C<$input_filename_or_reference> and C<$output_filename_or_reference>.

=head3 The C<$input_filename_or_reference> parameter

The parameter, C<$input_filename_or_reference>, is used to define the source of the uncompressed data.

It can take one of the following forms:

=over 5
=item A filename

If the C<$input_filename_or_reference> parameter is a simple scalar, it is assumed to be a filename. This file will be opened for reading and the input data will be read from it.

=item A filehandle

If the C<$input_filename_or_reference> parameter is a filehandle, the input data will be read from it. The string '-' can be used as an alias for standard input.
=item A scalar reference

If C<$input_filename_or_reference> is a scalar reference, the input data will be read from C<$input_filename_or_reference>.

=item An array reference

If C<$input_filename_or_reference> is an array reference, each element in the array must be a filename.

The input data will be read from each file in turn.

The complete array will be walked to ensure that it only contains valid filenames before any data is compressed.

=item An Input FileGlob string

If C<$input_filename_or_reference> is a string that is delimited by the characters "<" and ">" C$deflate> will assume that it is an I<input fileglob string>. The input is the list of files that match the fileglob.

See L<File::GlobMapper|File::GlobMapper> for more details.

=back

If the C<$input_filename_or_reference> parameter is any other type, C<undef> will be returned.

=head3 The C<$output_filename_or_reference> parameter

The parameter C<$output_filename_or_reference> is used to control the destination of the compressed data. This parameter can take one of these forms.

=over 5

=item A filename

If the C<$output_filename_or_reference> parameter is a simple scalar, it is assumed to be a filename. This file will be opened for writing and the compressed data will be written to it.

=item A filehandle

If the C<$output_filename_or_reference> parameter is a filehandle, the compressed data will be written to it. The string '-' can be used as
an alias for standard output.

=item A scalar reference

If \texttt{C<$output_filename_or_reference> is a scalar reference}, the compressed data will be stored in \texttt{C<$output_filename_or_reference>.

=item An Array Reference

If \texttt{C<$output_filename_or_reference> is an array reference}, the compressed data will be pushed onto the array.

=item An Output FileGlob

If \texttt{C<$output_filename_or_reference> is a string that is delimited by the characters "<" and ">" C<deflate> will assume that it is an output fileglob string. The output is the list of files that match the fileglob.

When \texttt{C<$output_filename_or_reference> is an fileglob string}, \texttt{C<$input_filename_or_reference> must also be a fileglob string. Anything else is an error.

See \texttt{L<File::GlobMapper|File::GlobMapper> for more details.

=back

If the \texttt{C<$output_filename_or_reference> parameter is any other type, \texttt{C<undef> will be returned.

=head2 Notes

When \texttt{C<$input_filename_or_reference> maps to multiple files/buffers and \texttt{C<$output_filename_or_reference> is a single file/buffer the input files/buffers will be stored in \texttt{C<$output_filename_or_reference> as a concatenated series of compressed data streams.

=head2 Optional Parameters

Unless specified below, the optional parameters for \texttt{C<deflate>, \texttt{C<OPTS>, are the same as those used with the OO interface defined in the \texttt{L</"Constructor Options"> section below.

=over 5

=item \texttt{C<< AutoClose => 0|1 >>}

This option applies to any input or output data streams to
C<deflate> that are filehandles.

If C<AutoClose> is specified, and the value is true, it will result in all input and/or output filehandles being closed once C<deflate> has completed.

This parameter defaults to 0.

=item C<< BinModeIn => 0|1 >>

When reading from a file or filehandle, set C<binmode> before reading.

Defaults to 0.

=item C<< Append => 0|1 >>

The behaviour of this option is dependent on the type of output data stream.

=over 5

=item * A Buffer

If C<Append> is enabled, all compressed data will be append to the end of the output buffer. Otherwise the output buffer will be cleared before any compressed data is written to it.

=item * A Filename

If C<Append> is enabled, the file will be opened in append mode. Otherwise the contents of the file, if any, will be truncated before any compressed data is written to it.

=item * A Filehandle

If C<Append> is enabled, the filehandle will be positioned to the end of the file via a call to C<seek> before any compressed data is written to it. Otherwise the file pointer will not be moved.

=back

When C<Append> is specified, and set to true, it will I<append> all compressed data to the output data stream.

So when the output is a filehandle it will carry out a seek to the eof before writing any compressed data. If the output is a filename, it will be opened for appending. If the output is a buffer, all compressed data will be appended to the existing buffer.
Conversely when C<Append> is not specified, or it is present and is set to false, it will operate as follows.

When the output is a filename, it will truncate the contents of the file before writing any compressed data. If the output is a filehandle its position will not be changed. If the output is a buffer, it will be wiped before any compressed data is output.

Defaults to 0.

=head2 Examples

To read the contents of the file C<file1.txt> and write the compressed data to the file C<file1.txt.1950>.

    use strict ;
    use warnings ;
    use IO::Compress::Deflate qw(deflate $DeflateError) ;

    my $input = "file1.txt";
    deflate $input => "$input.1950"
        or die "deflate failed: $DeflateError\n";

To read from an existing Perl filehandle, C<$input>, and write the compressed data to a buffer, C<$buffer>.

    use strict ;
    use warnings ;
    use IO::Compress::Deflate qw(deflate $DeflateError) ;
    use IO::File ;

    my $input = new IO::File "<file1.txt"
        or die "Cannot open 'file1.txt': $!\n" ;
    my $buffer ;
    deflate $input => $buffer
        or die "deflate failed: $DeflateError\n";

To compress all files in the directory "~/my/home" that match "*.txt" and store the compressed data in the same directory

    use strict ;
    use warnings ;
    use IO::Compress::Deflate qw(deflate $DeflateError) ;

    deflate '<~/my/home/*.txt>' => '<*.1950>'
and if you want to compress each file one at a time, this will do the trick

use strict ;
use warnings ;
use IO::Compress::Deflate qw(deflate $DeflateError) ;

for my $input ( glob "/my/home/*.txt" )
{
    my $output = "$input.1950" ;
    deflate $input => $output
        or die "Error compressing '$input': $DeflateError\n";
}

=head1 OO Interface

=head2 Constructor

The format of the constructor for C<IO::Compress::Deflate> is shown below

    my $z = new IO::Compress::Deflate $output [,OPTS]
        or die "IO::Compress::Deflate failed: $DeflateError\n";

It returns an C<IO::Compress::Deflate> object on success and undef on failure.
The variable C<$DeflateError> will contain an error message on failure.

If you are running Perl 5.005 or better the object, C<$z>, returned from
IO::Compress::Deflate can be used exactly like a L<IO::File> filehandle.
This means that all normal output file operations can be carried out
with C<$z>.
For example, to write to a compressed file/buffer you can use either of
these forms

    $z->print("hello world\n");
    print $z "hello world\n";

The mandatory parameter C<$output> is used to control the destination
of the compressed data. This parameter can take one of these forms.

=over 5

=item A filename

If the C<$output> parameter is a simple scalar, it is assumed to be a
filename. This file will be opened for writing and the compressed data
will be written to it.
If the C<$output> parameter is a filehandle, the compressed data will be written to it. The string '-' can be used as an alias for standard output.

If C<$output> is a scalar reference, the compressed data will be stored in C<$$output>.

If the C<$output> parameter is any other type, C<IO::Compress::Deflate>::new will return undef.

=head2 Constructor Options

C<OPTS> is any combination of the following options:

=over 5

=item C<< AutoClose => 0|1 >>

This option is only valid when the C<$output> parameter is a filehandle. If specified, and the value is true, it will result in the C<$output> being closed once either the C<close> method is called or the C<IO::Compress::Deflate> object is destroyed.

This parameter defaults to 0.

=item C<< Append => 0|1 >>

Opens C<$output> in append mode.

The behaviour of this option is dependent on the type of C<$output>.

=over 5

=item * A Buffer

If C<$output> is a buffer and C<Append> is enabled, all compressed data will be append to the end of C<$output>. Otherwise C<$output> will be cleared before any data is written to it.

=item * A Filename

If C<$output> is a filename and C<Append> is enabled, the file will be
opened in append mode. Otherwise the contents of the file, if any, will be truncated before any compressed data is written to it.

=item * A Filehandle

If C<$output> is a filehandle, the file pointer will be positioned to the end of the file via a call to C<seek> before any compressed data is written to it. Otherwise the file pointer will not be moved.

=back

This parameter defaults to 0.

=item C<< Merge => 0|1 >>

This option is used to compress input data and append it to an existing compressed data stream in C<$output>. The end result is a single compressed data stream stored in C<$output>.

It is a fatal error to attempt to use this option when C<$output> is not an RFC 1950 data stream.

There are a number of other limitations with the C<Merge> option:

=over 5

=item 1

This module needs to have been built with zlib 1.2.1 or better to work. A fatal error will be thrown if C<Merge> is used with an older version of zlib.

=item 2

If C<$output> is a file or a filehandle, it must be seekable.

=back

This parameter defaults to 0.

=item -Level

Defines the compression level used by zlib. The value should either be a number between 0 and 9 (0 means no compression and 9 is maximum compression), or one of the symbolic constants defined below.

\begin{verbatim}
Z_NO_COMPRESSION
Z_BEST_SPEED
\end{verbatim}
Z_BEST_COMPRESSION
Z_DEFAULT_COMPRESSION

The default is Z_DEFAULT_COMPRESSION.

Note, these constants are not imported by C<IO::Compress::Deflate> by default.

use IO::Compress::Deflate qw(strategy);
use IO::Compress::Deflate qw(constants);
use IO::Compress::Deflate qw(all);

=item -Strategy

Defines the strategy used to tune the compression. Use one of the symbolic
constants defined below.

Z_FILTERED
Z_HUFFMAN_ONLY
Z_RLE
Z_FIXED
Z_DEFAULT_STRATEGY

The default is Z_DEFAULT_STRATEGY.

=item C<< Strict => 0|1 >>

This is a placeholder option.

=back

=head2 Examples

TODO

=head1 Methods

=head2 print

Usage is

$z->print($data)
print $z $data

Compresses and outputs the contents of the C<$data> parameter. This
has the same behaviour as the C<print> built-in.

Returns true if successful.
printf

Usage is

$z->printf($format, $data)
printf $z $format, $data

Compresses and outputs the contents of the C<$data> parameter.

Returns true if successful.

syswrite

Usage is

$z->syswrite $data
$z->syswrite $data, $length
$z->syswrite $data, $length, $offset

Compresses and outputs the contents of the C<$data> parameter.

Returns the number of uncompressed bytes written, or C<undef> if unsuccessful.

write

Usage is

$z->write $data
$z->write $data, $length
$z->write $data, $length, $offset

Compresses and outputs the contents of the C<$data> parameter.

Returns the number of uncompressed bytes written, or C<undef> if unsuccessful.

flush

Usage is

$z->flush;
$z->flush($flush_type);

Flushes any pending compressed data to the output file/buffer.

This method takes an optional parameter, C<$flush_type>, that controls how the flushing will be carried out. By default the C<$flush_type>
used is \texttt{Z_FINISH}. Other valid values for \texttt{flush_type} are \texttt{Z_NO_FLUSH}, \texttt{Z_SYNC_FLUSH}, \texttt{Z_FULL_FLUSH} and \texttt{Z_BLOCK}. It is strongly recommended that you only set the \texttt{flush_type} parameter if you fully understand the implications of what it does - overuse of \texttt{flush} can seriously degrade the level of compression achieved. See the \texttt{zlib} documentation for details.

Returns true on success.

=\texttt{tell}

Usage is

\begin{verbatim}
$z->tell()
tell $z
\end{verbatim}

Returns the uncompressed file offset.

=\texttt{eof}

Usage is

\begin{verbatim}
$z->eof();
eof($z);
\end{verbatim}

Returns true if the \texttt{close} method has been called.

=\texttt{seek}

\begin{verbatim}
$z->seek($position, $whence);
seek($z, $position, $whence);
\end{verbatim}

Provides a sub-set of the \texttt{seek} functionality, with the restriction that it is only legal to seek forward in the output file/buffer. It is a fatal error to attempt to seek backward.

Empty parts of the file/buffer will have NULL (0x00) bytes written to them.

The \texttt{whence} parameter takes one the usual values, namely SEEK_SET, SEEK_CUR or SEEK_END.

Returns 1 on success, 0 on failure.

=\texttt{binmode}

Usage is

\begin{verbatim}
$z->binmode
\end{verbatim}
binmode $z ;

This is a noop provided for completeness.

=head2 opened

$z->opened()

Returns true if the object currently refers to a opened file/buffer.

=head2 autoflush

my $prev = $z->autoflush()
my $prev = $z->autoflush(EXPR)

If the $z object is associated with a file or a filehandle, this method returns the current autoflush setting for the underlying filehandle. If $EXPR is present, and is non-zero, it will enable flushing after every write/print operation.

If $z is associated with a buffer, this method has no effect and always returns undef.

B>Note that the special variable $| cannot be used to set or retrieve the autoflush setting.

=head2 input_line_number

$z->input_line_number()
$z->input_line_number(EXPR)

This method always returns undef when compressing.

=head2 fileno

$z->fileno()
fileno($z)

If the $z object is associated with a file or a filehandle, fileno will return the underlying file descriptor. Once the close method is called fileno will return undef.

If the $z object is associated with a buffer, this method will return undef.

=head2 close

$z->close();
close $z;

Flushes any pending compressed data and then closes the output file/buffer.

For most versions of Perl this method will be automatically invoked if the IO::Compress::Deflate object is destroyed (either explicitly or by the variable with the reference to the object going out of scope). The exceptions are Perl versions 5.005 through 5.00504 and 5.8.0. In these cases, the C<close> method will be called automatically, but not until global destruction of all live objects when the program is terminating.

Therefore, if you want your scripts to be able to run on all versions of Perl, you should call C<close> explicitly and not rely on automatic closing.

Returns true on success, otherwise 0.

If the C<AutoClose> option has been enabled when the IO::Compress::Deflate object was created, and the object is associated with a file, the underlying file will also be closed.

=head2 newStream([OPTS])

Usage is

$z->newStream([OPTS])

Closes the current compressed data stream and starts a new one.

OPTS consists of any of the options that are available when creating the C<$z> object.

See the L</"Constructor Options"> section for more details.

=head2 deflateParams

Usage is

$z->deflateParams

TODO

=head1 Importing

A number of symbolic constants are required by some methods in C<IO::Compress::Deflate>. None are imported by default.
Imports C<deflate>, C<$DeflateError> and all symbolic constants that can be used by C<IO::Compress::Deflate>. Same as doing this

use IO::Compress::Deflate qw(deflate $DeflateError :constants) ;

Import all symbolic constants. Same as doing this

use IO::Compress::Deflate qw(:flush :level :strategy) ;

These symbolic constants are used by the C<flush> method.

Z_NO_FLUSH
Z_PARTIAL_FLUSH
Z_SYNC_FLUSH
Z_FULL_FLUSH
Z_FINISH
Z_BLOCK

These symbolic constants are used by the C<Level> option in the constructor.

Z_NO_COMPRESSION
Z_BEST_SPEED
Z_BEST_COMPRESSION
Z_DEFAULT_COMPRESSION

These symbolic constants are used by the C<Strategy> option in the constructor.

Z_FILTERED
Z_HUFFMAN_ONLY
Z_RLE
Z_FIXED
Z_DEFAULT_STRATEGY

=head1 EXAMPLES
=head2 Apache::GZip Revisited

See L<IO::Compress::FAQ|IO::Compress::FAQ/"Apache::GZip Revisited">

=head2 Working with Net::FTP

See L<IO::Compress::FAQ|IO::Compress::FAQ/"Compressed files and Net::FTP">

=head1 SEE ALSO

L<Compress::Zlib>, L<IO::Compress::Gzip>, L<IO::Uncompress::Gunzip>, L<IO::Uncompress::Inflate>,
L<IO::Compress::RawDeflate>, L<IO::Uncompress::RawInflate>, L<IO::Compress::Bzip2>,
L<IO::Uncompress::Bunzip2>, L<IO::Compress::Lzma>, L<IO::Uncompress::UnLzma>, L<IO::Compress::Xz>,
L<IO::Uncompress::UnXz>, L<IO::Compress::Lzop>, L<IO::Uncompress::UnLzop>, L<IO::Compress::Lzf>,
L<IO::Uncompress::UnLzf>, L<IO::Uncompress::AnyInflate>, L<IO::Uncompress::AnyUncompress>

L<IO::Compress::FAQ|IO::Compress::FAQ>

L<File::GlobMapper|File::GlobMapper>, L<Archive::Zip|Archive::Zip>,
L<Archive::Tar|Archive::Tar>,
L<IO::Zlib|IO::Zlib>

For RFC 1950, 1951 and 1952 see
L<http://www.faqs.org/rfcs/rfc1950.html>,
L<http://www.faqs.org/rfcs/rfc1951.html> and

The I<zlib> compression library was written by Jean-loup Gailly
C<gzip@prep.ai.mit.edu> and Mark Adler C<madler@alumni.caltech.edu>.

The primary site for the I<zlib> compression library is

The primary site for gzip is L<http://www.gzip.org>.

=head1 AUTHOR

This module was written by Paul Marquess, C<pmqs@cpan.org>.

=head1 MODIFICATION HISTORY

See the Changes file.

=head1 COPYRIGHT AND LICENSE

Copyright (c) 2005-2018 Paul Marquess. All rights reserved.
This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

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No license file was found, but licenses were detected in source scan.

=head1 NAME

IO::Uncompress::Gunzip - Read RFC 1952 files/buffers

=head1 SYNOPSIS

use IO::Uncompress::Gunzip qw(gunzip $GunzipError) ;

my $status = gunzip $input => $output [,OPTS]
    or die "gunzip failed: $GunzipError'\n";

my $z = new IO::Uncompress::Gunzip $Input [OPTS]
    or die "gunzip failed: $GunzipError\n";

$status = $z->read($buffer)
$status = $z->read($buffer, $length)
$status = $z->read($buffer, $length, $offset)
$line = $z->getline()
$char = $z->getc()
$char = $z->ungetc()
$char = $z->opened()

$status = $z->inflateSync()

$data = $z->trailingData()
$status = $z->nextStream()
$data = $z->getHeaderInfo()
$z->tell()
$z->seek($position, $whence)
$z->binmode()
$z->fileno()
$z->eof()
$z->close()

$GunzipError ;

# IO::File mode

<$z>
This module provides a Perl interface that allows the reading of files/buffers that conform to RFC 1952.

For writing RFC 1952 files/buffers, see the companion module IO::Compress::Gzip.

The functional interface needs Perl5.005 or better.

=over 5
=item A filename
If the <$input_filename_or_reference> parameter is a simple scalar, it is
If the C<$input_filename_or_reference> parameter is a filehandle, the input data will be read from it. The string '-' can be used as an alias for standard input.

=item A scalar reference

If C<$input_filename_or_reference> is a scalar reference, the input data will be read from C<$$input_filename_or_reference>.

=item An array reference

If C<$input_filename_or_reference> is an array reference, each element in the array must be a filename.

The input data will be read from each file in turn.

The complete array will be walked to ensure that it only contains valid filenames before any data is uncompressed.

=item An Input FileGlob string

If C<$input_filename_or_reference> is a string that is delimited by the characters "<" and ">" C<gunzip> will assume that it is an I<input fileglob string>. The input is the list of files that match the fileglob.

See L<File::GlobMapper|File::GlobMapper> for more details.

=back

If the C<$input_filename_or_reference> parameter is any other type, C<undef> will be returned.

=head3 The C<$output_filename_or_reference> parameter

The parameter C<$output_filename_or_reference> is used to control the destination of the uncompressed data. This parameter can take one of these forms.

=over 5

=item A filename
If the C<$output_filename_or_reference> parameter is a simple scalar, it is assumed to be a filename. This file will be opened for writing and the uncompressed data will be written to it.

=item A filehandle

If the C<$output_filename_or_reference> parameter is a filehandle, the uncompressed data will be written to it. The string '-' can be used as an alias for standard output.

=item A scalar reference

If C<$output_filename_or_reference> is a scalar reference, the uncompressed data will be stored in C<$$output_filename_or_reference>.

=item An Array Reference

If C<$output_filename_or_reference> is an array reference, the uncompressed data will be pushed onto the array.

=item An Output FileGlob

If C<$output_filename_or_reference> is a string that is delimited by the characters "<" and ">" C<gunzip> will assume that it is an I<output fileglob string>. The output is the list of files that match the fileglob.

When C<$output_filename_or_reference> is an fileglob string, C<$input_filename_or_reference> must also be a fileglob string. Anything else is an error.

See L<File::GlobMapper|File::GlobMapper> for more details.

=back

If the C<$output_filename_or_reference> parameter is any other type, C<undef> will be returned.

=head2 Notes

When C<$input_filename_or_reference> maps to multiple compressed files/buffers and C<$output_filename_or_reference> is a single file/buffer, after uncompression C<$output_filename_or_reference> will contain a concatenation of all the uncompressed data from each of the input files/buffers.

=head2 Optional Parameters
Unless specified below, the optional parameters for `gunzip`, `OPTS`, are the same as those used with the OO interface defined in the L</"Constructor Options"> section below.

=item C<< AutoClose => 0|1 >>

This option applies to any input or output data streams to `gunzip` that are filehandles.

If `AutoClose` is specified, and the value is true, it will result in all input and/or output filehandles being closed once `gunzip` has completed.

This parameter defaults to 0.

=item C<< BinModeOut => 0|1 >>

When writing to a file or filehandle, set `binmode` before writing to the file.

Defaults to 0.

=item C<< Append => 0|1 >>

The behaviour of this option is dependent on the type of output data stream.

=item * A Buffer

If `Append` is enabled, all uncompressed data will be append to the end of the output buffer. Otherwise the output buffer will be cleared before any uncompressed data is written to it.

=item * A Filename

If `Append` is enabled, the file will be opened in append mode. Otherwise the contents of the file, if any, will be truncated before any uncompressed data is written to it.

=item * A Filehandle

If `Append` is enabled, the filehandle will be positioned to the end of the file via a call to `seek` before any uncompressed data is written to it. Otherwise the file pointer will not be moved.
When C<Append> is specified, and set to true, it will append all uncompressed data to the output data stream.

So when the output is a filehandle it will carry out a seek to the eof before writing any uncompressed data. If the output is a filename, it will be opened for appending. If the output is a buffer, all uncompressed data will be appended to the existing buffer.

Conversely when C<Append> is not specified, or it is present and is set to false, it will operate as follows.

When the output is a filename, it will truncate the contents of the file before writing any uncompressed data. If the output is a filehandle its position will not be changed. If the output is a buffer, it will be wiped before any uncompressed data is output.

Defaults to 0.

=item C<< MultiStream => 0|1 >>

If the input file/buffer contains multiple compressed data streams, this option will uncompress the whole lot as a single data stream.

Defaults to 0.

=item C<< TrailingData => $scalar >>

Returns the data, if any, that is present immediately after the compressed data stream once uncompression is complete.

This option can be used when there is useful information immediately following the compressed data stream, and you don't know the length of the compressed data stream.

If the input is a buffer, C<trailingData> will return everything from the end of the compressed data stream to the end of the buffer.

If the input is a filehandle, C<trailingData> will return the data that is left in the filehandle input buffer once the end of the compressed data stream has been reached. You can then use the filehandle to read the rest of the input file.

Don't bother using C<trailingData> if the input is a filename.

If you know the length of the compressed data stream before you start
uncompressing, you can avoid having to use C<trailingData> by setting the C<InputLength> option.

=head2 Examples

To read the contents of the file C<file1.txt.gz> and write the uncompressed data to the file C<file1.txt>.

```perl
use strict;
use warnings;
use IO::Uncompress::Gunzip qw(gunzip $GunzipError);

my $input = "file1.txt.gz";
my $output = "file1.txt";
gunzip $input => $output
    or die "gunzip failed: $GunzipError\n";
```

To read from an existing Perl filehandle, C<$input>, and write the uncompressed data to a buffer, C<$buffer>.

```perl
use strict;
use warnings;
use IO::Uncompress::Gunzip qw(gunzip $GunzipError);
use IO::File;

my $input = new IO::File "<file1.txt.gz"
    or die "Cannot open 'file1.txt.gz': $!\n";
my $buffer ;
gunzip $input => \$buffer
    or die "gunzip failed: $GunzipError\n";
```

To uncompress all files in the directory "~/my/home" that match "*.txt.gz" and store the compressed data in the same directory

```perl
use strict;
use warnings;
use IO::Uncompress::Gunzip qw(gunzip $GunzipError);

gunzip '</my/home/*.txt.gz>' => '</my/home/#1.txt>'
    or die "gunzip failed: $GunzipError\n";
```

and if you want to compress each file one at a time, this will do the trick

```perl
use strict;
use warnings;
use IO::Uncompress::Gunzip qw(gunzip $GunzipError);
```
for my $input ( glob "/my/home/*.txt.gz" )
{
    my $output = $input;
    $output =~ s/.gz// ;
    gunzip $input => $output
    or die "Error compressing '$input': $GunzipError\n";
}

=head1 OO Interface

=head2 Constructor

The format of the constructor for IO::Uncompress::Gunzip is shown below

    my $z = new IO::Uncompress::Gunzip $input [OPTS]
    or die "IO::Uncompress::Gunzip failed: $GunzipError\n";

Returns an C<IO::Uncompress::Gunzip> object on success and undef on failure.
The variable C<$GunzipError> will contain an error message on failure.

If you are running Perl 5.005 or better the object, C<$z>, returned from
IO::Uncompress::Gunzip can be used exactly like an L<IO::File|IO::File> filehandle.
This means that all normal input file operations can be carried out with
C<$z>. For example, to read a line from a compressed file/buffer you can
use either of these forms

    $line = $z->getline();
    $line = <$z>;

The mandatory parameter C<$input> is used to determine the source of the
compressed data. This parameter can take one of three forms.

=over 5

=item A filename

If the C<$input> parameter is a scalar, it is assumed to be a filename. This
file will be opened for reading and the compressed data will be read from it.

=item A filehandle

If the C<$input> parameter is a filehandle, the compressed data will be
read from it.
The string C`-' can be used as an alias for standard input.

=item A scalar reference


If `C<$input>` is a scalar reference, the compressed data will be read from `C<$$input>`.

=head2 Constructor Options

The option names defined below are case insensitive and can be optionally prefixed by a `-`. So all of the following are valid:

- `AutoClose`
- `autoclose`
- `AUTOCLOSE`
- `autoclose`

OPTS is a combination of the following options:

=item `AutoClose => 0|1`

This option is only valid when the `C<$input>` parameter is a filehandle. If specified, and the value is true, it will result in the file being closed once either the `C<close>` method is called or the IO::Uncompress::Gunzip object is destroyed.

This parameter defaults to 0.

=item `MultiStream => 0|1`

Allows multiple concatenated compressed streams to be treated as a single compressed stream. Decompression will stop once either the end of the file/buffer is reached, an error is encountered (premature eof, corrupt compressed data) or the end of a stream is not immediately followed by the start of another stream.

This parameter defaults to 0.

=item `Prime => $string`

This option will uncompress the contents of `C<$string>` before processing the input file/buffer.

This option can be useful when the compressed data is embedded in another file/data structure and it is not possible to work out where the compressed data begins without having to read the first few bytes. If this is the case, the uncompression can be I<primed> with these bytes using this option.
-item C<< Transparent => 0|1 >>

If this option is set and the input file/buffer is not compressed data, the module will allow reading of it anyway.

In addition, if the input file/buffer does contain compressed data and there is non-compressed data immediately following it, setting this option will make this module treat the whole file/buffer as a single data stream.

This option defaults to 1.

-item C<< BlockSize => $num >>

When reading the compressed input data, IO::Uncompress::Gunzip will read it in blocks of C<$num> bytes.

This option defaults to 4096.

-item C<< InputLength => $size >>

When present this option will limit the number of compressed bytes read from the input file/buffer to C<$size>. This option can be used in the situation where there is useful data directly after the compressed data stream and you know beforehand the exact length of the compressed data stream.

This option is mostly used when reading from a filehandle, in which case the file pointer will be left pointing to the first byte directly after the compressed data stream.

This option defaults to off.

-item C<< Append => 0|1 >>

This option controls what the C<read> method does with uncompressed data.

If set to 1, all uncompressed data will be appended to the output parameter of the C<read> method.

If set to 0, the contents of the output parameter of the C<read> method will be overwritten by the uncompressed data.

Defaults to 0.

-item C<< Strict => 0|1 >>

This option controls whether the extra checks defined below are used when
carrying out the decompression. When Strict is on, the extra tests are carried out, when Strict is off they are not.

The default for this option is off.

=over 5

=item 1

If the FHCRC bit is set in the gzip FLG header byte, the CRC16 bytes in the header must match the crc16 value of the gzip header actually read.

=item 2

If the gzip header contains a name field (FNAME) it consists solely of ISO 8859-1 characters.

=item 3

If the gzip header contains a comment field (FCOMMENT) it consists solely of ISO 8859-1 characters plus line-feed.

=item 4

If the gzip FEXTRA header field is present it must conform to the sub-field structure as defined in RFC 1952.

=item 5

The CRC32 and ISIZE trailer fields must be present.

=item 6

The value of the CRC32 field read must match the crc32 value of the uncompressed data actually contained in the gzip file.

=item 7

The value of the ISIZE fields read must match the length of the uncompressed data actually read from the file.

=back

=item C<< ParseExtra => 0|1 >>

If the gzip FEXTRA header field is present and this option is set, it will force the module to check that it conforms to the sub-field structure as defined in RFC 1952.
If the C<Strict> is on it will automatically enable this option.

Defaults to 0.

=head2 Examples

TODO

=head1 Methods

=head2 read

Usage is

$status = $z->read($buffer)

Reads a block of compressed data (the size of the compressed block is determined by the C<Buffer> option in the constructor), uncompresses it and writes any uncompressed data into C<$buffer>. If the C<Append> parameter is set in the constructor, the uncompressed data will be appended to the C<$buffer> parameter. Otherwise C<$buffer> will be overwritten.

Returns the number of uncompressed bytes written to C<$buffer>, zero if eof or a negative number on error.

=head2 read

Usage is

$status = $z->read($buffer, $length)
$status = $z->read($buffer, $length, $offset)

Attempt to read C<$length> bytes of uncompressed data into C<$buffer>.

The main difference between this form of the C<read> method and the previous one, is that this one will attempt to return I<exactly> C<$length> bytes. The only circumstances that this function will not is if end-of-file or an IO error is encountered.

Returns the number of uncompressed bytes written to C<$buffer>, zero if eof or a negative number on error.

=head2 getline
Usage is

```perl
$line = $z->getline()
$line = <$z>
```

Reads a single line.

This method fully supports the use of the variable C<$/> (or C<$INPUT_RECORD_SEPARATOR> or C<$RS> when C<$English> is in use) to determine what constitutes an end of line. Paragraph mode, record mode and file slurp mode are all supported.

=head2 getc

Usage is

```perl
$char = $z->getc()
```

Read a single character.

=head2 ungetc

Usage is

```perl
$char = $z->ungetc($string)
```

=head2 inflateSync

Usage is

```perl
$status = $z->inflateSync()
```

TODO

=head2 getHeaderInfo

Usage is

```perl
$hdr  = $z->getHeaderInfo();
@hdrs = $z->getHeaderInfo();
```

This method returns either a hash reference (in scalar context) or a list or hash references (in array context) that contains information about each of the header fields in the compressed data stream(s).

=over 5
=item Name

The contents of the Name header field, if present. If no name is present, the value will be undef. Note this is different from a zero length name, which will return an empty string.

=back

=head2 tell

Usage is

$z->tell()
tell $z

Returns the uncompressed file offset.

=head2 eof

Usage is

$z->eof();
eof($z);

Returns true if the end of the compressed input stream has been reached.

=head2 seek

$z->seek($position, $whence);
seek($z, $position, $whence);

Provides a sub-set of the C<seek> functionality, with the restriction that it is only legal to seek forward in the input file/buffer. It is a fatal error to attempt to seek backward.

Note that the implementation of C<seek> in this module does not provide true random access to a compressed file/buffer. It works by uncompressing data from the current offset in the file/buffer until it reaches the uncompressed offset specified in the parameters to C<seek>. For very small files this may be acceptable behaviour. For large files it may cause an unacceptable delay.
The C<$whence$> parameter takes one of the usual values, namely SEEK_SET, SEEK_CUR or SEEK_END.

Returns 1 on success, 0 on failure.

=head2 binmode

Usage is

$z->binmode
binmode $z ;

This is a noop provided for completeness.

=head2 opened

$z->opened()

Returns true if the object currently refers to an opened file/buffer.

=head2 autoflush

my $prev = $z->autoflush()
my $prev = $z->autoflush(EXPR)

If the C<$z$> object is associated with a file or a filehandle, this method returns the current autoflush setting for the underlying filehandle. If C<EXPR> is present, and is non-zero, it will enable flushing after every write/print operation.

If C<$z$> is associated with a buffer, this method has no effect and always returns C<undef>.

B<Note> that the special variable C<$|$> B<cannot> be used to set or retrieve the autoflush setting.

=head2 input_line_number

$z->input_line_number()
$z->input_line_number(EXPR)

Returns the current uncompressed line number. If C<EXPR> is present it has the effect of setting the line number. Note that setting the line number does not change the current position within the file/buffer being read.

The contents of C<$/> are used to determine what constitutes a line terminator.
=head2 fileno

$z->fileno()
fileno($z)

If the C<$z> object is associated with a file or a filehandle, C<fileno>
will return the underlying file descriptor. Once the C<close> method is
called C<fileno> will return C<undef>.

If the C<$z> object is associated with a buffer, this method will return
C<undef>.

=head2 close

$z->close();
close $z;

Closes the output file/buffer.

For most versions of Perl this method will be automatically invoked if
the IO::Uncompress::Gunzip object is destroyed (either explicitly or by the
variable with the reference to the object going out of scope). The
exceptions are Perl versions 5.005 through 5.00504 and 5.8.0. In
these cases, the C<close> method will be called automatically, but
not until global destruction of all live objects when the program is
terminating.

Therefore, if you want your scripts to be able to run on all versions
of Perl, you should call C<close> explicitly and not rely on automatic
closing.

Returns true on success, otherwise 0.

If the C<AutoClose> option has been enabled when the IO::Uncompress::Gunzip
object was created, and the object is associated with a file, the
underlying file will also be closed.

=head2 nextStream

Usage is

my $status = $z->nextStream();

Skips to the next compressed data stream in the input file/buffer. If a new
compressed data stream is found, the eof marker will be cleared and C<$> will
be reset to 0.

Returns 1 if a new stream was found, 0 if none was found, and -1 if an
error was encountered.

=head2 trailingData

Usage is

    my $data = $z->trailingData();

Returns the data, if any, that is present immediately after the compressed data stream once uncompression is complete. It only makes sense to call this method once the end of the compressed data stream has been encountered.

This option can be used when there is useful information immediately following the compressed data stream, and you don't know the length of the compressed data stream.

If the input is a buffer, C<trailingData> will return everything from the end of the compressed data stream to the end of the buffer.

If the input is a filehandle, C<trailingData> will return the data that is left in the filehandle input buffer once the end of the compressed data stream has been reached. You can then use the filehandle to read the rest of the input file.

Don't bother using C<trailingData> if the input is a filename.

If you know the length of the compressed data stream before you start uncompressing, you can avoid having to use C<trailingData> by setting the C<InputLength> option in the constructor.

=head1 Importing

No symbolic constants are required by this IO::Uncompress::Gunzip at present.

=head1 EXAMPLES
=head2 Working with Net::FTP

See L<IO::Compress::FAQ|IO::Compress::FAQ/"Compressed files and Net::FTP">

=head1 SEE ALSO

L<Compress::Zlib>, L<IO::Compress::Gzip>, L<IO::Compress::Deflate>, L<IO::Uncompress::Inflate>,
L<IO::Compress::RawDeflate>, L<IO::Uncompress::RawInflate>, L<IO::Compress::Bzip2>,
L<IO::Uncompress::Bunzip2>, L<IO::Compress::Lzma>, L<IO::Uncompress::UnLzma>, L<IO::Compress::Xz>,
L<IO::Uncompress::UnXz>, L<IO::Compress::Lzop>, L<IO::Uncompress::UnLzop>, L<IO::Compress::Lzf>,
L<IO::Uncompress::UnLzf>, L<IO::Uncompress::AnyInflate>, L<IO::Uncompress::AnyUncompress>

L<IO::Compress::FAQ|IO::Compress::FAQ>

L<File::GlobMapper|File::GlobMapper>, L<Archive::Zip|Archive::Zip>,
L<Archive::Tar|Archive::Tar>,
L<IO::Zlib|IO::Zlib>

For RFC 1950, 1951 and 1952 see
L<http://www.faqs.org/rfcs/rfc1950.html>,
L<http://www.faqs.org/rfcs/rfc1951.html> and

The I<zlib> compression library was written by Jean-loup Gailly
C<gzip@prep.ai.mit.edu> and Mark Adler C<madler@alumni.caltech.edu>.

The primary site for the I<zlib> compression library is

The primary site for gzip is L<http://www.gzip.org>.

=head1 AUTHOR

This module was written by Paul Marquess, C<pmqs@cpan.org>.

=head1 MODIFICATION HISTORY

See the Changes file.

=head1 COPYRIGHT AND LICENSE

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This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.

Found in path(s):
* /opt/cola/permits/1178587419_1625692217.01/0/perl-IO-Compress-2.081-1.el8-1.src.rpm-cosi-expand-
=head1 NAME

IO::Compress::Gzip - Write RFC 1952 files/buffers

=head1 SYNOPSIS

use IO::Compress::Gzip qw(gzip $GzipError) ;

my $status = gzip $input => $output [,OPTS]
    or die "gzip failed: $GzipError\n"

my $z = new IO::Compress::Gzip $output [,OPTS]
    or die "gzip failed: $GzipError\n"

$z->print($string);
$z->printf($format, $string);
$z->write($string);
$z->syswrite($string [, $length, $offset]);
$z->flush();
$z->tell();
$z->eof();
$z->seek($position, $whence);
$z->binmode();
$z->fileno();
$z->opened();
$z->autoflush();
$z->input_line_number();
$z->newStream( [OPTS] );

$z->deflateParams();

$z->close() ;

$GzipError ;

# IO::File mode

print $z $string;
printf $z $format, $string;
tell $z
    eof $z
    seek $z, $position, $whence
binmode $z
fileno $z
close $z ;

=head1 DESCRIPTION

This module provides a Perl interface that allows writing compressed data to files or buffer as defined in RFC 1952.

All the gzip headers defined in RFC 1952 can be created using this module.

For reading RFC 1952 files/buffers, see the companion module L<IO::Uncompress::Gunzip|IO::Uncompress::Gunzip>.

=head1 Functional Interface

A top-level function, C<gzip>, is provided to carry out "one-shot" compression between buffers and/or files. For finer control over the compression process, see the L</"OO Interface"> section.

use IO::Compress::Gzip qw(gzip $GzipError) ;

gzip $input_filename_or_reference => $output_filename_or_reference [,OPTS]
or die "gzip failed: $GzipError\n";

The functional interface needs Perl5.005 or better.

=head2 gzip $input_filename_or_reference => $output_filename_or_reference [, OPTS]

C<gzip> expects at least two parameters, C<$input_filename_or_reference> and C<$output_filename_or_reference>.

=head3 The C<$input_filename_or_reference> parameter

The parameter, C<$input_filename_or_reference>, is used to define the source of the uncompressed data.

It can take one of the following forms:

=over 5

=item A filename

If the C<$input_filename_or_reference> parameter is a simple scalar, it is assumed to be a filename. This file will be opened for reading and the input data will be read from it.
If the C<$input_filename_or_reference> parameter is a filehandle, the input data will be read from it. The string '-' can be used as an alias for standard input.

If C<$input_filename_or_reference> is a scalar reference, the input data will be read from C<$$input_filename_or_reference>.

If C<$input_filename_or_reference> is an array reference, each element in the array must be a filename.

The input data will be read from each file in turn.

The complete array will be walked to ensure that it only contains valid filenames before any data is compressed.

If C<$input_filename_or_reference> is a string that is delimited by the characters "<" and ">" C<gzip> will assume that it is an input fileglob string. The input is the list of files that match the fileglob.

See L<File::GlobMapper|File::GlobMapper> for more details.

If the C<$input_filename_or_reference> parameter is any other type, C<undef> will be returned.

In addition, if C<$input_filename_or_reference> is a simple filename, the default values for the C<Name> and C<Time> options will be sourced from that file.

If you do not want to use these defaults they can be overridden by explicitly setting the C<Name> and C<Time> options or by setting the C<Minimal> parameter.

The parameter C<$output_filename_or_reference> is used to control the destination of the compressed data. This parameter can take one of these forms.
=over 5

=item A filename

If the C<$output_filename_or_reference> parameter is a simple scalar, it is assumed to be a filename. This file will be opened for writing and the compressed data will be written to it.

=item A filehandle

If the C<$output_filename_or_reference> parameter is a filehandle, the compressed data will be written to it. The string '-' can be used as an alias for standard output.

=item A scalar reference

If C<$output_filename_or_reference> is a scalar reference, the compressed data will be stored in C<$output_filename_or_reference>.

=item An Array Reference

If C<$output_filename_or_reference> is an array reference, the compressed data will be pushed onto the array.

=item An Output FileGlob

If C<$output_filename_or_reference> is a string that is delimited by the characters "<" and ">" C<gzip> will assume that it is an I<output fileglob string>. The output is the list of files that match the fileglob.

When C<$output_filename_or_reference> is an fileglob string, C<$input_filename_or_reference> must also be a fileglob string. Anything else is an error.

See L<File::GlobMapper|File::GlobMapper> for more details.

=back

If the C<$output_filename_or_reference> parameter is any other type, C<undef> will be returned.

=head2 Notes

When C<$input_filename_or_reference> maps to multiple files/buffers and C<$output_filename_or_reference> is a single file/buffer the input files/buffers will be stored
in C<$output_filename_or_reference> as a concatenated series of compressed data streams.

=head2 Optional Parameters

Unless specified below, the optional parameters for C<gzip>, C<OPTS>, are the same as those used with the OO interface defined in the L</"Constructor Options"> section below.

=over 5

=item C<< AutoClose => 0|1 >>

This option applies to any input or output data streams to C<gzip> that are filehandles.

If C<AutoClose> is specified, and the value is true, it will result in all input and/or output filehandles being closed once C<gzip> has completed.

This parameter defaults to 0.

=item C<< BinModeIn => 0|1 >>

When reading from a file or filehandle, set C<binmode> before reading.

Defaults to 0.

=item C<< Append => 0|1 >>

The behaviour of this option is dependent on the type of output data stream.

=over 5

=item * A Buffer

If C<Append> is enabled, all compressed data will be append to the end of the output buffer. Otherwise the output buffer will be cleared before any compressed data is written to it.

=item * A Filename

If C<Append> is enabled, the file will be opened in append mode. Otherwise the contents of the file, if any, will be truncated before any compressed data is written to it.

=item * A Filehandle
If C<Append> is enabled, the filehandle will be positioned to the end of the file via a call to C<seek> before any compressed data is written to it. Otherwise the file pointer will not be moved.

When C<Append> is specified, and set to true, it will I<append> all compressed data to the output data stream.

So when the output is a filehandle it will carry out a seek to the eof before writing any compressed data. If the output is a filename, it will be opened for appending. If the output is a buffer, all compressed data will be appended to the existing buffer.

Conversely when C<Append> is not specified, or it is present and is set to false, it will operate as follows.

When the output is a filename, it will truncate the contents of the file before writing any compressed data. If the output is a filehandle its position will not be changed. If the output is a buffer, it will be wiped before any compressed data is output.

Defaults to 0.

To read the contents of the file C<file1.txt> and write the compressed data to the file C<file1.txt.gz>.

```perl
use strict;
use warnings;
use IO::Compress::Gzip qw(gzip $GzipError);

my $input = "file1.txt";
gzip $input => "$input.gz"
    or die "gzip failed: $GzipError\n";
```

To read from an existing Perl filehandle, C<$input>, and write the compressed data to a buffer, C<$buffer>.

```perl
use strict;
use warnings;
use IO::Compress::Gzip qw(gzip $GzipError);
use IO::File;

my $input = new IO::File "<file1.txt"
```
or die "Cannot open 'file1.txt': $!
";
my $buffer;
gzip $input => $buffer
  or die "gzip failed: $GzipError\n";

To compress all files in the directory "/my/home" that match "*.txt"
and store the compressed data in the same directory

use strict;
use warnings;
use IO::Compress::Gzip qw(gzip $GzipError);

gzip '</my/home/*.txt>' => '<*.gz>'
  or die "gzip failed: $GzipError\n";

and if you want to compress each file one at a time, this will do the trick

use strict;
use warnings;
use IO::Compress::Gzip qw(gzip $GzipError);

for my $input ( glob "*/my/home/*.txt" )
{
  my $output = "$input.gz";
gzip $input => $output
    or die "Error compressing '$input': $GzipError\n";
}

=head1 OO Interface

=head2 Constructor

The format of the constructor for C<IO::Compress::Gzip> is shown below

my $z = new IO::Compress::Gzip $output [,OPTS]
    or die "IO::Compress::Gzip failed: $GzipError\n";

It returns an C<IO::Compress::Gzip> object on success and undef on failure.
The variable C<$GzipError> will contain an error message on failure.

If you are running Perl 5.005 or better the object, C<$z>, returned from
IO::Compress::Gzip can be used exactly like an L<IO::File|IO::File> filehandle.
This means that all normal output file operations can be carried out
with C<$z>.
For example, to write to a compressed file/buffer you can use either of
these forms

$z->print("hello world\n");
print $z "hello world\n";

The mandatory parameter C<$output> is used to control the destination of the compressed data. This parameter can take one of these forms.

=over 5
=item A filename

If the C<$output> parameter is a simple scalar, it is assumed to be a filename. This file will be opened for writing and the compressed data will be written to it.

=item A filehandle

If the C<$output> parameter is a filehandle, the compressed data will be written to it. The string '-' can be used as an alias for standard output.

=item A scalar reference

If C<$output> is a scalar reference, the compressed data will be stored in C<$$output>.

=back

If the C<$output> parameter is any other type, C<IO::Compress::Gzip>::new will return undef.

=head2 Constructor Options

C<OPTS> is any combination of the following options:

=over 5
=item C<< AutoClose => 0|1 >>

This option is only valid when the C<$output> parameter is a filehandle. If specified, and the value is true, it will result in the C<$output> being closed once either the C<close> method is called or the C<IO::Compress::Gzip> object is destroyed.

This parameter defaults to 0.

=item C<< Append => 0|1 >>

Opens C<$output> in append mode.
The behaviour of this option is dependent on the type of C<$output>.

=item * A Buffer

If C<$output> is a buffer and C<Append> is enabled, all compressed data will be append to the end of C<$output>. Otherwise C<$output> will be cleared before any data is written to it.

=item * A Filename

If C<$output> is a filename and C<Append> is enabled, the file will be opened in append mode. Otherwise the contents of the file, if any, will be truncated before any compressed data is written to it.

=item * A Filehandle

If C<$output> is a filehandle, the file pointer will be positioned to the end of the file via a call to C<seek> before any compressed data is written to it. Otherwise the file pointer will not be moved.

This parameter defaults to 0.

=item C<< Merge => 0|1 >>

This option is used to compress input data and append it to an existing compressed data stream in C<$output>. The end result is a single compressed data stream stored in C<$output>.

It is a fatal error to attempt to use this option when C<$output> is not an RFC 1952 data stream.

There are a number of other limitations with the C<Merge> option:

=item 1

This module needs to have been built with zlib 1.2.1 or better to work. A fatal error will be thrown if C<Merge> is used with an older version of zlib.

=item 2

If C<$output> is a file or a filehandle, it must be seekable.
This parameter defaults to 0.

=item -Level

Defines the compression level used by zlib. The value should either be a number between 0 and 9 (0 means no compression and 9 is maximum compression), or one of the symbolic constants defined below.

- Z_NO_COMPRESSION
- Z_BEST_SPEED
- Z_BEST_COMPRESSION
- Z_DEFAULT_COMPRESSION

The default is Z_DEFAULT_COMPRESSION.

Note, these constants are not imported by C<IO::Compress::Gzip> by default.

use IO::Compress::Gzip qw(:strategy);
use IO::Compress::Gzip qw(:constants);
use IO::Compress::Gzip qw(:all);

=item -Strategy

Defines the strategy used to tune the compression. Use one of the symbolic constants defined below.

- Z_FILTERED
- Z_HUFFMAN_ONLY
- Z_RLE
- Z_FIXED
- Z_DEFAULT_STRATEGY

The default is Z_DEFAULT_STRATEGY.

=item C<< Minimal => 0|1 >>

If specified, this option will force the creation of the smallest possible compliant gzip header (which is exactly 10 bytes long) as defined in RFC 1952.

See the section titled "Compliance" in RFC 1952 for a definition of the values used for the fields in the gzip header.

All other parameters that control the content of the gzip header will be ignored if this parameter is set to 1.
This parameter defaults to 0.

=item C<< Comment => $comment >>

Stores the contents of C<$comment> in the COMMENT field in the gzip header.
By default, no comment field is written to the gzip file.

If the C<<Strict>> option is enabled, the comment can only consist of ISO 8859-1 characters plus line feed.

If the C<<Strict>> option is disabled, the comment field can contain any character except NULL. If any null characters are present, the field will be truncated at the first NULL.

=item C<< Name => $string >>

Stores the contents of C<$string> in the gzip NAME header field. If C<Name> is not specified, no gzip NAME field will be created.

If the C<<Strict>> option is enabled, C<$string> can only consist of ISO 8859-1 characters.

If C<<Strict>> is disabled, then C<$string> can contain any character except NULL. If any null characters are present, the field will be truncated at the first NULL.

=item C<< Time => $number >>

Sets the MTIME field in the gzip header to $number.
This field defaults to the time the C<IO::Compress::Gzip> object was created if this option is not specified.

=item C<< TextFlag => 0|1 >>

This parameter controls the setting of the FLG.FTEXT bit in the gzip header. It is used to signal that the data stored in the gzip file/buffer is probably text.

The default is 0.

=item C<< HeaderCRC => 0|1 >>

When true this parameter will set the FLG.FHCRC bit to 1 in the gzip header and set the CRC16 header field to the CRC of the complete gzip header except the CRC16 field itself.
B<Note> that gzip files created with the C<HeaderCRC> flag set to 1 cannot be read by most, if not all, of the standard gunzip utilities, most notably gzip version 1.2.4. You should therefore avoid using this option if you want to maximize the portability of your gzip files.

This parameter defaults to 0.

=item C<< OS_Code => $value >>

Stores C<$value> in the gzip OS header field. A number between 0 and 255 is valid.

If not specified, this parameter defaults to the OS code of the Operating System this module was built on. The value 3 is used as a catch-all for all Unix variants and unknown Operating Systems.

=item C<< ExtraField => $data >>

This parameter allows additional metadata to be stored in the ExtraField in the gzip header. An RFC 1952 compliant ExtraField consists of zero or more subfields. Each subfield consists of a two byte header followed by the subfield data.

The list of subfields can be supplied in any of the following formats

-ExtraField => [ $id1, $data1,
   $id2, $data2,
   ...
 ]
-ExtraField => [ [ $id1 => $data1],
   [ $id2 => $data2],
   ...
 ]
-ExtraField => { $id1 => $data1,
   $id2 => $data2,
   ...
 }

Where C<$id1>, C<$id2> are two byte subfield ID's. The second byte of the ID cannot be 0, unless the C<Strict> option has been disabled.

If you use the hash syntax, you have no control over the order in which the ExtraSubFields are stored, plus you cannot have SubFields with duplicate ID.

Alternatively the list of subfields can be supplied as a scalar, thus
If you use the raw format, and the C<Strict> option is enabled, C<IO::Compress::Gzip> will check that C<$rawdata> consists of zero or more conformant sub-fields. When C<Strict> is disabled, C<$rawdata> can consist of any arbitrary byte stream.

The maximum size of the Extra Field 65535 bytes.

=item C<< ExtraFlags => $value >>

Sets the XFL byte in the gzip header to C<$value>.

If this option is not present, the value stored in XFL field will be determined by the setting of the C<Level> option.

If C<< Level => Z_BEST_SPEED >> has been specified then XFL is set to 2. If C<< Level => Z_BEST_COMPRESSION >> has been specified then XFL is set to 4. Otherwise XFL is set to 0.

=item C<< Strict => 0|1 >>

C<Strict> will optionally police the values supplied with other options to ensure they are compliant with RFC1952.

This option is enabled by default.

If C<Strict> is enabled the following behaviour will be policed:

=over 5

=item *

The value supplied with the C<Name> option can only contain ISO 8859-1 characters.

=item *

The value supplied with the C<Comment> option can only contain ISO 8859-1 characters plus line-feed.

=item *

The values supplied with the C<-Name> and C<-Comment> options cannot contain multiple embedded nulls.

=item *
If an C<ExtraField> option is specified and it is a simple scalar, it must conform to the sub-field structure as defined in RFC 1952.

If an C<ExtraField> option is specified the second byte of the ID will be checked in each subfield to ensure that it does not contain the reserved value 0x00.

When C<Strict> is disabled the following behaviour will be policed:

The value supplied with C<-Name> option can contain any character except NULL.

The value supplied with C<-Comment> option can contain any character except NULL.

The values supplied with the C<-Name> and C<-Comment> options can contain multiple embedded nulls. The string written to the gzip header will consist of the characters up to, but not including, the first embedded NULL.

If an C<ExtraField> option is specified and it is a simple scalar, the structure will not be checked. The only error is if the length is too big.

The ID header in an C<ExtraField> sub-field can consist of any two bytes.

Examples

TODO
Methods

print

Usage is

$z->print($data)
print $z $data

Compresses and outputs the contents of the C<$data> parameter. This has the same behaviour as the C<print> built-in.

Returns true if successful.

printf

Usage is

$z->printf($format, $data)
printf $z $format, $data

Compresses and outputs the contents of the C<$data> parameter.

Returns true if successful.

syswrite

Usage is

$z->syswrite $data
$z->syswrite $data, $length
$z->syswrite $data, $length, $offset

Compresses and outputs the contents of the C<$data> parameter.

Returns the number of uncompressed bytes written, or C<undef> if unsuccessful.

write

Usage is

$z->write $data
$z->write $data, $length
$z->write $data, $length, $offset

Compresses and outputs the contents of the C<$data> parameter.
Returns the number of uncompressed bytes written, or C<undef> if unsuccessful.

=head2 flush

Usage is

    $z->flush;
    $z->flush($flush_type);

Flushes any pending compressed data to the output file/buffer.

This method takes an optional parameter, C<$flush_type>, that controls how the flushing will be carried out. By default the C<$flush_type> used is C<Z_FINISH>. Other valid values for C<$flush_type> are C<Z_NO_FLUSH>, C<Z_SYNC_FLUSH>, C<Z_FULL_FLUSH> and C<Z_BLOCK>. It is strongly recommended that you only set the C<$flush_type> parameter if you fully understand the implications of what it does - overuse of C<flush> can seriously degrade the level of compression achieved. See the C<zlib> documentation for details.

Returns true on success.

=head2 tell

Usage is

    $z->tell;
    tell $z

Returns the uncompressed file offset.

=head2 eof

Usage is

    $z->eof;
    eof($z);

Returns true if the C<close> method has been called.

=head2 seek

    $z->seek($position, $whence);
    seek($z, $position, $whence);

Provides a sub-set of the C<seek> functionality, with the restriction
that it is only legal to seek forward in the output file/buffer. It is a fatal error to attempt to seek backward.

Empty parts of the file/buffer will have NULL (0x00) bytes written to them.

The C<$whence$> parameter takes one the usual values, namely SEEK_SET, SEEK_CUR or SEEK_END.

Returns 1 on success, 0 on failure.

=head2 binmode

Usage is

$z->binmode
   binmode $z ;

This is a noop provided for completeness.

=head2 opened

$z->opened()

Returns true if the object currently refers to a opened file/buffer.

=head2 autoflush

my $prev = $z->autoflush()
my $prev = $z->autoflush(EXPR)

If the C<$z$> object is associated with a file or a filehandle, this method returns the current autoflush setting for the underlying filehandle. If C<EXPR> is present, and is non-zero, it will enable flushing after every write/print operation.

If C<$z$> is associated with a buffer, this method has no effect and always returns C<undef>.

B<Note> that the special variable C<$|>$ B<cannot> be used to set or retrieve the autoflush setting.

=head2 input_line_number

$z->input_line_number()
$z->input_line_number(EXPR)

This method always returns C<undef> when compressing.
=head2 fileno

$z->fileno()
fileno($z)

If the C<$z> object is associated with a file or a filehandle, C<fileno> will return the underlying file descriptor. Once the C<close> method is called C<fileno> will return C<undef>.

If the C<$z> object is associated with a buffer, this method will return C<undef>.

=head2 close

$z->close() ;
close $z ;

Flushes any pending compressed data and then closes the output file/buffer.

For most versions of Perl this method will be automatically invoked if the IO::Compress::Gzip object is destroyed (either explicitly or by the variable with the reference to the object going out of scope). The exceptions are Perl versions 5.005 through 5.00504 and 5.8.0. In these cases, the C<close> method will be called automatically, but not until global destruction of all live objects when the program is terminating.

Therefore, if you want your scripts to be able to run on all versions of Perl, you should call C<close> explicitly and not rely on automatic closing.

Returns true on success, otherwise 0.

If the C<AutoClose> option has been enabled when the IO::Compress::Gzip object was created, and the object is associated with a file, the underlying file will also be closed.

=head2 newStream([OPTS])

Usage is

$z->newStream([OPTS])

Closes the current compressed data stream and starts a new one.

OPTS consists of any of the options that are available when creating the C<$z> object.
See the L</"Constructor Options"> section for more details.

=head2 deflateParams

Usage is

$z->deflateParams

TODO

=head1 Importing

A number of symbolic constants are required by some methods in C<IO::Compress::Gzip>. None are imported by default.

=over 5

=item :all

Imports C<gzip>, C<$GzipError> and all symbolic constants that can be used by C<IO::Compress::Gzip>. Same as doing this

use IO::Compress::Gzip qw(gzip $GzipError :constants) ;

=item :constants

Import all symbolic constants. Same as doing this

use IO::Compress::Gzip qw(:flush :level :strategy) ;

=item :flush

These symbolic constants are used by the C<flush> method.

Z_NO_FLUSH
Z_PARTIAL_FLUSH
Z_SYNC_FLUSH
Z_FULL_FLUSH
Z_FINISH
Z_BLOCK

=item :level

These symbolic constants are used by the C<Level> option in the constructor.

Z_NO_COMPRESSION
Z_BEST_SPEED
Z_BEST_COMPRESSION
Z_DEFAULT_COMPRESSION

=item :strategy

These symbolic constants are used by the C<Strategy> option in the constructor.

Z_FILTERED
Z_HUFFMAN_ONLY
Z_RLE
Z_FIXED
Z_DEFAULT_STRATEGY

=head1 EXAMPLES

=head2 Apache::GZip Revisited

See L<IO::Compress::FAQ|IO::Compress::FAQ/"Apache::GZip Revisited">

=head2 Working with Net::FTP

See L<IO::Compress::FAQ|IO::Compress::FAQ/"Compressed files and Net::FTP">

=head1 SEE ALSO

L<Compress::Zlib>, L<IO::Uncompress::Gunzip>, L<IO::Compress::Deflate>, L<IO::Uncompress::Inflate>,
L<IO::Compress::RawDeflate>, L<IO::Uncompress::RawInflate>, L<IO::Compress::Bzip2>,
L<IO::Uncompress::Bunzip2>, L<IO::Compress::Lzma>, L<IO::Uncompress::UnLzma>, L<IO::Compress::Xz>,
L<IO::Uncompress::UnXz>, L<IO::Compress::Lzop>, L<IO::Uncompress::UnLzop>, L<IO::Compress::Lzf>,
L<IO::Uncompress::UnLzf>, L<IO::Uncompress::AnyInflate>, L<IO::Uncompress::AnyUncompress>

L<IO::Compress::FAQ|IO::Compress::FAQ>

L<File::GlobMapper|File::GlobMapper>, L<Archive::Zip|Archive::Zip>,
L<Archive::Tar|Archive::Tar>,
L<IO::Zlib|IO::Zlib>

For RFC 1950, 1951 and 1952 see
L<http://www.faqs.org/rfcs/rfc1950.html>,
L<http://www.faqs.org/rfcs/rfc1951.html> and

The I<zlib> compression library was written by Jean-loup Gailly
C<gzip@prep.ai.mit.edu> and Mark Adler C<madler@alumni.caltech.edu>.

The primary site for the I<zlib> compression library is
The primary site for gzip is L<http://www.gzip.org>.

=head1 AUTHOR

This module was written by Paul Marquess, C<pmqs@cpan.org>.

=head1 MODIFICATION HISTORY

See the Changes file.

=head1 COPYRIGHT AND LICENSE

Copyright (c) 2005-2018 Paul Marquess. All rights reserved.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

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No license file was found, but licenses were detected in source scan.

=head1 EXIT CODES

If all your tests passed, Test::Builder will exit with zero (which is normal). If anything failed it will exit with how many failed. If you run less (or more) tests than you planned, the missing (or extras) will be considered failures. If no tests were ever run Test::Builder will throw a warning and exit with 255. If the test died, even after having successfully completed all its tests, it will still be considered a failure and will exit with 255.

So the exit codes are...

0 all tests successful
255 test died
any other number how many failed (including missing or extras)

If you fail more than 254 tests, it will be reported as 254.

=head1 THREADS

In perl 5.8.0 and later, Test::Builder is thread-safe. The test number is shared amongst all threads. This means if one thread sets the test number using current_test() they will all be effected.
Test::Builder is only thread-aware if threads.pm is loaded before Test::Builder.

=head1 EXAMPLES

CPAN can provide the best examples. Test::Simple, Test::More, Test::Exception and Test::Differences all use Test::Builder.

=head1 SEE ALSO

Test::Simple, Test::More, Test::Harness

=head1 AUTHORS

Original code by chromatic, maintained by Michael G Schwern <schwern@pobox.com>

=head1 COPYRIGHT

Copyright 2002, 2004 by chromatic <chromatic@wgz.org> and Michael G Schwern <schwern@pobox.com>.

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See <http://www.perl.com/perl/misc/Artistic.html>

=cut

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=head1 NAME

IO::Compress::RawDeflate - Write RFC 1951 files/buffers

=head1 SYNOPSIS

use IO::Compress::RawDeflate qw(rawdeflate $RawDeflateError) ;

my $status = rawdeflate $input => $output [,OPTS]
    or die "rawdeflate failed: $RawDeflateError\n";

my $z = new IO::Compress::RawDeflate $output [,OPTS]
    or die "rawdeflate failed: $RawDeflateError\n";
This module provides a Perl interface that allows writing compressed data to files or buffer as defined in RFC 1951.

Note that RFC 1951 data is not a good choice of compression format to use in isolation, especially if you want to auto-detect it.

For reading RFC 1951 files/buffers, see the companion module L<IO::Uncompress::RawInflate|IO::Uncompress::RawInflate>.

=head1 Functional Interface

A top-level function, C<rawdeflate>, is provided to carry out
"one-shot" compression between buffers and/or files. For finer control over the compression process, see the L</"OO Interface"> section.

use IO::Compress::RawDeflate qw(rawdeflate $RawDeflateError) ;

rawdeflate $input_filename_or_reference => $output_filename_or_reference [,OPTS]
or die "rawdeflate failed: $RawDeflateError\n";

The functional interface needs Perl5.005 or better.

=head2 rawdeflate $input_filename_or_reference => $output_filename_or_reference [, OPTS]

C<rawdeflate> expects at least two parameters, C<$input_filename_or_reference> and C<$output_filename_or_reference>.

=head3 The C<$input_filename_or_reference> parameter

The parameter, C<$input_filename_or_reference>, is used to define the source of the uncompressed data.

It can take one of the following forms:

=over 5

=item A filename

If the <$input_filename_or_reference> parameter is a simple scalar, it is assumed to be a filename. This file will be opened for reading and the input data will be read from it.

=item A filehandle

If the C<$input_filename_or_reference> parameter is a filehandle, the input data will be read from it. The string '-' can be used as an alias for standard input.

=item A scalar reference

If C<$input_filename_or_reference> is a scalar reference, the input data will be read from C$$input_filename_or_reference>.

=item An array reference

If C<$input_filename_or_reference> is an array reference, each element in the array must be a filename.

The input data will be read from each file in turn.
The complete array will be walked to ensure that it only contains valid filenames before any data is compressed.

=item An Input FileGlob string

If C<$input_filename_or_reference> is a string that is delimited by the characters "<" and ">">" C<rawdeflate> will assume that it is an I<input fileglob string>. The input is the list of files that match the fileglob.

See L<File::GlobMapper|File::GlobMapper> for more details.

=back

If the C<$input_filename_or_reference> parameter is any other type, C<undef> will be returned.

=head3 The C<$output_filename_or_reference> parameter

The parameter C<$output_filename_or_reference> is used to control the destination of the compressed data. This parameter can take one of these forms.

=over 5

=item A filename

If the C<$output_filename_or_reference> parameter is a simple scalar, it is assumed to be a filename. This file will be opened for writing and the compressed data will be written to it.

=item A filehandle

If the C<$output_filename_or_reference> parameter is a filehandle, the compressed data will be written to it. The string '-' can be used as an alias for standard output.

=item A scalar reference

If C<$output_filename_or_reference> is a scalar reference, the compressed data will be stored in C<$output_filename_or_reference>.

=item An Array Reference

If C<$output_filename_or_reference> is an array reference, the compressed data will be pushed onto the array.
If C<$output_filename_or_reference> is a string that is delimited by the characters "<" and ">" C<rawdeflate> will assume that it is an I<output fileglob string>. The output is the list of files that match the fileglob.

When C<$output_filename_or_reference> is an fileglob string, C<$input_filename_or_reference> must also be a fileglob string. Anything else is an error.

See L<File::GlobMapper|File::GlobMapper> for more details.

If the C<$output_filename_or_reference> parameter is any other type, C<undef> will be returned.

When C<$input_filename_or_reference> maps to multiple files/buffers and C<$output_filename_or_reference> is a single file/buffer the input files/buffers will be stored in C<$output_filename_or_reference> as a concatenated series of compressed data streams.

Unless specified below, the optional parameters for C<rawdeflate>, C<OPTS>, are the same as those used with the OO interface defined in the L</"Constructor Options"> section below.

This option applies to any input or output data streams to C<rawdeflate> that are filehandles.

If C<AutoClose> is specified, and the value is true, it will result in all input and/or output filehandles being closed once C<rawdeflate> has completed.

This parameter defaults to 0.

When reading from a file or filehandle, set C<binmode> before reading.
Defaults to 0.

=item C<< Append => 0|1 >>

The behaviour of this option is dependent on the type of output data stream.

=over 5

=item * A Buffer

If C<Append> is enabled, all compressed data will be append to the end of the output buffer. Otherwise the output buffer will be cleared before any compressed data is written to it.

=item * A Filename

If C<Append> is enabled, the file will be opened in append mode. Otherwise the contents of the file, if any, will be truncated before any compressed data is written to it.

=item * A Filehandle

If C<Append> is enabled, the filehandle will be positioned to the end of the file via a call to C<seek> before any compressed data is written to it. Otherwise the file pointer will not be moved.

=back

When C<Append> is specified, and set to true, it will I<append> all compressed data to the output data stream.

So when the output is a filehandle it will carry out a seek to the eof before writing any compressed data. If the output is a filename, it will be opened for appending. If the output is a buffer, all compressed data will be appended to the existing buffer.

Conversely when C<Append> is not specified, or it is present and is set to false, it will operate as follows.

When the output is a filename, it will truncate the contents of the file before writing any compressed data. If the output is a filehandle its position will not be changed. If the output is a buffer, it will be wiped before any compressed data is output.

Defaults to 0.

=back
Examples

To read the contents of the file `file1.txt` and write the compressed data to the file `file1.txt.1951`.

```perl
use strict;
use warnings;
use IO::Compress::RawDeflate qw(rawdeflate $RawDeflateError);

my $input = "file1.txt";
rawdeflate $input => "$input.1951"
    or die "rawdeflate failed: $RawDeflateError\n";
```

To read from an existing Perl filehandle, `C<$input>`, and write the compressed data to a buffer, `C<$buffer>`.

```perl
use strict;
use warnings;
use IO::Compress::RawDeflate qw(rawdeflate $RawDeflateError);
use IO::File;

my $input = new IO::File "<file1.txt"
    or die "Cannot open 'file1.txt': $!\n";
my $buffer;
rawdeflate $input => \$buffer
    or die "rawdeflate failed: $RawDeflateError\n";
```

To compress all files in the directory `/my/home` that match `"*.txt"` and store the compressed data in the same directory

```perl
use strict;
use warnings;
use IO::Compress::RawDeflate qw(rawdeflate $RawDeflateError);

rawdeflate '<my/home/*.txt>' => '<*.1951>'
    or die "rawdeflate failed: $RawDeflateError\n";
```

and if you want to compress each file one at a time, this will do the trick

```perl
use strict;
use warnings;
use IO::Compress::RawDeflate qw(rawdeflate $RawDeflateError);

for my $input ( glob "my/home/*.txt" )
{
    my $output = "$input.1951";
    rawdeflate $input => $output
}````
or die "Error compressing 'Input': $RawDeflateError\n";
}

=head1 OO Interface

=head2 Constructor

The format of the constructor for C<IO::Compress::RawDeflate> is shown below

my $z = new IO::Compress::RawDeflate $output [,OPTS]
    or die "IO::Compress::RawDeflate failed: $RawDeflateError\n";

It returns an C<IO::Compress::RawDeflate> object on success and undef on failure.
The variable C<$RawDeflateError> will contain an error message on failure.

If you are running Perl 5.005 or better the object, C<$z>, returned from
IO::Compress::RawDeflate can be used exactly like an L<IO::File|IO::File> filehandle.
This means that all normal output file operations can be carried out
with C<$z>.
For example, to write to a compressed file/buffer you can use either of
these forms

$z->print("hello world\n");
print $z "hello world\n";

The mandatory parameter C<$output> is used to control the destination
of the compressed data. This parameter can take one of these forms.

=over 5

=item A filename

If the C<$output> parameter is a simple scalar, it is assumed to be a
filename. This file will be opened for writing and the compressed data
will be written to it.

=item A filehandle

If the C<$output> parameter is a filehandle, the compressed data will be
written to it.
The string '-.' can be used as an alias for standard output.

=item A scalar reference

If C<$output> is a scalar reference, the compressed data will be stored
in C<$$output>.

=back
If the C<$output> parameter is any other type, C<IO::Compress::RawDeflate>::new will return undef.

=head2 Constructor Options

C<OPTS> is any combination of the following options:

=over 5

=item C<< AutoClose => 0|1 >>

This option is only valid when the C<$output> parameter is a filehandle. If specified, and the value is true, it will result in the C<$output> being closed once either the C<close> method is called or the C<IO::Compress::RawDeflate> object is destroyed.

This parameter defaults to 0.

=item C<< Append => 0|1 >>

Opens C<$output> in append mode.

The behaviour of this option is dependent on the type of C<$output>.

=over 5

=item * A Buffer

If C<$output> is a buffer and C<Append> is enabled, all compressed data will be append to the end of C<$output>. Otherwise C<$output> will be cleared before any data is written to it.

=item * A Filename

If C<$output> is a filename and C<Append> is enabled, the file will be opened in append mode. Otherwise the contents of the file, if any, will be truncated before any compressed data is written to it.

=item * A Filehandle

If C<$output> is a filehandle, the file pointer will be positioned to the end of the file via a call to C<seek> before any compressed data is written to it. Otherwise the file pointer will not be moved.

=back

This parameter defaults to 0.
This option is used to compress input data and append it to an existing compressed data stream in $output. The end result is a single compressed data stream stored in $output.

It is a fatal error to attempt to use this option when $output is not an RFC 1951 data stream.

There are a number of other limitations with the Merge option:

1. This module needs to have been built with zlib 1.2.1 or better to work. A fatal error will be thrown if Merge is used with an older version of zlib.

2. If $output is a file or a filehandle, it must be seekable.

This parameter defaults to 0.

- Level

Defines the compression level used by zlib. The value should either be a number between 0 and 9 (0 means no compression and 9 is maximum compression), or one of the symbolic constants defined below.

- Z_NO_COMPRESSION
- Z_BEST_SPEED
- Z_BEST_COMPRESSION
- Z_DEFAULT_COMPRESSION

The default is Z_DEFAULT_COMPRESSION.

Note, these constants are not imported by IO::Compress::RawDeflate by default.

use IO::Compress::RawDeflate qw(strategy);
use IO::Compress::RawDeflate qw(constants);
use IO::Compress::RawDeflate qw(all);
Defines the strategy used to tune the compression. Use one of the symbolic constants defined below.

- Z_FILTERED
- Z_HUFFMAN_ONLY
- Z_RLE
- Z_FIXED
- Z_DEFAULT_STRATEGY

The default is Z_DEFAULT_STRATEGY.

=item C<< Strict => 0|1 >>

This is a placeholder option.

=back

=head2 Examples

TODO

=head1 Methods

=head2 print

Usage is

$z->print($data)
print $z $data

Compresses and outputs the contents of the C<$data> parameter. This has the same behaviour as the C<print> built-in.

Returns true if successful.

=head2 printf

Usage is

$z->printf($format, $data)
printf $z $format, $data

Compresses and outputs the contents of the C<$data> parameter.

Returns true if successful.

=head2 syswrite
Usage is

$z->syswrite $data
$z->syswrite $data, $length
$z->syswrite $data, $length, $offset

Compresses and outputs the contents of the C<$data> parameter.

Returns the number of uncompressed bytes written, or C<undef> if unsuccessful.

=head2 write

Usage is

$z->write $data
$z->write $data, $length
$z->write $data, $length, $offset

Compresses and outputs the contents of the C<$data> parameter.

Returns the number of uncompressed bytes written, or C<undef> if unsuccessful.

=head2 flush

Usage is

$z->flush;
$z->flush($flush_type);

Flushes any pending compressed data to the output file/buffer.

This method takes an optional parameter, C<$flush_type>, that controls how the flushing will be carried out. By default the C<$flush_type> used is C<Z_FINISH>. Other valid values for C<$flush_type> are C<Z_NO_FLUSH>, C<Z_SYNC_FLUSH>, C<Z_FULL_FLUSH> and C<Z_BLOCK>. It is strongly recommended that you only set the C<$flush_type> parameter if you fully understand the implications of what it does - overuse of C<flush> can seriously degrade the level of compression achieved. See the C<zlib> documentation for details.

Returns true on success.

=head2 tell

Usage is
$z->tell()
tell $z

Returns the uncompressed file offset.

=head2 eof

Usage is

$z->eof();
eof($z);

Returns true if the C<close> method has been called.

=head2 seek

$z->seek($position, $whence);
seek($z, $position, $whence);

Provides a sub-set of the C<seek> functionality, with the restriction that it is only legal to seek forward in the output file/buffer. It is a fatal error to attempt to seek backward.

Empty parts of the file/buffer will have NULL (0x00) bytes written to them.

The C<$whence> parameter takes one the usual values, namely SEEK_SET, SEEK_CUR or SEEK_END.

Returns 1 on success, 0 on failure.

=head2 binmode

Usage is

$z->binmode
binmode $z ;

This is a noop provided for completeness.

=head2 opened

$z->opened()

Returns true if the object currently refers to a opened file/buffer.

=head2 autoflush
my $prev = $z->autoflush()
my $prev = $z->autoflush(EXPR)

If the C<$z> object is associated with a file or a filehandle, this method returns the current autoflush setting for the underlying filehandle. If C<EXPR> is present, and is non-zero, it will enable flushing after every write/print operation.

If C<$z> is associated with a buffer, this method has no effect and always returns C<undef>.

B<Note> that the special variable C<$|> B<cannot> be used to set or retrieve the autoflush setting.

=head2 input_line_number

$z->input_line_number()
$z->input_line_number(EXPR)

This method always returns C<undef> when compressing.

=head2 fileno

$z->fileno()
fileno($z)

If the C<$z> object is associated with a file or a filehandle, C<fileno> will return the underlying file descriptor. Once the C<close> method is called C<fileno> will return C<undef>.

If the C<$z> object is associated with a buffer, this method will return C<undef>.

=head2 close

$z->close() ;
close $z ;

Flushes any pending compressed data and then closes the output file/buffer.

For most versions of Perl this method will be automatically invoked if the IO::Compress::RawDeflate object is destroyed (either explicitly or by the variable with the reference to the object going out of scope). The exceptions are Perl versions 5.005 through 5.00504 and 5.8.0. In these cases, the C<close> method will be called automatically, but not until global destruction of all live objects when the program is terminating.
Therefore, if you want your scripts to be able to run on all versions of Perl, you should call C<close> explicitly and not rely on automatic closing.

Returns true on success, otherwise 0.

If the C<AutoClose> option has been enabled when the IO::Compress::RawDeflate object was created, and the object is associated with a file, the underlying file will also be closed.

=head2 newStream([OPTS])

Usage is

   $z->newStream( [OPTS] )

Closes the current compressed data stream and starts a new one.

OPTS consists of any of the options that are available when creating the C<$z> object.

See the L</"Constructor Options" section for more details.

=head2 deflateParams

Usage is

   $z->deflateParams

=over 5

=item :all

Imports C<rawdeflate>, C<$RawDeflateError> and all symbolic constants that can be used by C<IO::Compress::RawDeflate>. Same as doing this

   use IO::Compress::RawDeflate qw(rawdeflate $RawDeflateError :constants) ;

=item :constants

Import all symbolic constants. Same as doing this
use IO::Compress::RawDeflate qw(:flush :level :strategy) ;

=back

=head1 EXAMPLES

=head2 Apache::GZip Revisited

See L<IO::Compress::FAQ|IO::Compress::FAQ/"Apache::GZip Revisited">

=head2 Working with Net::FTP

See L<IO::Compress::FAQ|IO::Compress::FAQ/"Compressed files and Net::FTP">

=head1 SEE ALSO

L<Compress::Zlib>, L<IO::Compress::Gzip>, L<IO::Uncompress::Gunzip>, L<IO::Compress::Deflate>,
L<IO::Uncompress::Inflate>, L<IO::Uncompress::RawInflate>, L<IO::Compress::Bzip2>,
L<IO::Uncompress::Bunzip2>, L<IO::Compress::Lzma>, L<IO::Uncompress::UnLzma>, L<IO::Compress::Xz>,
L<IO::Uncompress::UnXz>, L<IO::Compress::Lzop>, L<IO::Uncompress::UnLzop>, L<IO::Compress::Lzf>,
L<IO::Uncompress::UnLzf>, L<IO::Compress::AnyInflate>, L<IO::Uncompress::AnyUncompress>

L<IO::Compress::FAQ|IO::Compress::FAQ>

L<File::GlobMapper|File::GlobMapper>, L<Archive::Zip|Archive::Zip>,
L<Archive::Tar|Archive::Tar>,
L<IO::Zlib|IO::Zlib>

For RFC 1950, 1951 and 1952 see
L<http://www.faqs.org/rfcs/rfc1950.html>,
L<http://www.faqs.org/rfcs/rfc1951.html> and

The I<zlib> compression library was written by Jean-loup Gailly
C<gzip@prep.ai.mit.edu> and Mark Adler C<madler@alumni.caltech.edu>.

The primary site for the I<zlib> compression library is

The primary site for gzip is L<http://www.gzip.org>.

=head1 AUTHOR

This module was written by Paul Marquess, C<pmqs@cpan.org>.

=head1 MODIFICATION HISTORY

See the Changes file.

=head1 COPYRIGHT AND LICENSE

Copyright (c) 2005-2018 Paul Marquess. 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.

=head1 NAME

IO::Compress::Zip - Write zip files/buffers
use IO::Compress::Zip qw(zip $ZipError);

my $status = zip $input => $output [,OPTS]
    or die "zip failed: $ZipError\n";

my $z = new IO::Compress::Zip $output [,OPTS]
    or die "zip failed: $ZipError\n";

$z->print($string);
$z->printf($format, $string);
$z->write($string);
$z->syswrite($string [, $length, $offset]);
$z->flush();
$z->tell();
$z->eof();
$z->seek($position, $whence);
$z->binmode();
$z->fileno();
$z->opened();
$z->autoflush();
$z->input_line_number();
$z->newStream( [OPTS] );

$z->deflateParams();

$z->close();

$ZipError;

# IO::File mode

print $z $string;
printf $z $format, $string;
tell $z
eof $z
seek $z, $position, $whence
binmode $z
fileno $z
close $z;

=head1 DESCRIPTION

This module provides a Perl interface that allows writing zip compressed data to files or buffer.
The primary purpose of this module is to provide streaming write access to zip files and buffers. It is not a general-purpose file archiver. If that is what you want, check out C<Archive::Zip>.

At present three compression methods are supported by IO::Compress::Zip, namely Store (no compression at all), Deflate, Bzip2 and LZMA.

Note that to create Bzip2 content, the module C<IO::Compress::Bzip2> must be installed.

Note that to create LZMA content, the module C<IO::Compress::Lzma> must be installed.

For reading zip files/buffers, see the companion module L<IO::Uncompress::Unzip|IO::Uncompress::Unzip>.

=head1 Functional Interface

A top-level function, C<zip>, is provided to carry out "one-shot" compression between buffers and/or files. For finer control over the compression process, see the L</"OO Interface"> section.

use IO::Compress::Zip qw(zip $ZipError) ;

zip $input_filename_or_reference => $output_filename_or_reference [,OPTS]
  or die "zip failed: $ZipError\n";

The functional interface needs Perl5.005 or better.

=head2 zip $input_filename_or_reference => $output_filename_or_reference [, OPTS]

C<zip> expects at least two parameters, C<$input_filename_or_reference> and C<$output_filename_or_reference>.

=head3 The C<$input_filename_or_reference> parameter

The parameter, C<$input_filename_or_reference>, is used to define the source of the uncompressed data.

It can take one of the following forms:

=over 5

=item A filename

If the C<$input_filename_or_reference> parameter is a simple scalar, it is
assumed to be a filename. This file will be opened for reading and the
input data will be read from it.

=item A filehandle

If the C<$input_filename_or_reference> parameter is a filehandle, the input
data will be read from it. The string '-' can be used as an alias for
standard input.

=item A scalar reference

If C<$input_filename_or_reference> is a scalar reference, the input data
will be read from C<$$input_filename_or_reference>.

=item An array reference

If C<$input_filename_or_reference> is an array reference, each element in
the array must be a filename.

The input data will be read from each file in turn.

The complete array will be walked to ensure that it only
contains valid filenames before any data is compressed.

=item An Input FileGlob string

If C<$input_filename_or_reference> is a string that is delimited by the
characters "<" and ""> C<zip> will assume that it is an
I<input fileglob string>. The input is the list of files that match the
fileglob.

See L<File::GlobMapper|File::GlobMapper> for more details.

=back

If the C<$input_filename_or_reference> parameter is any other type,
C<undef> will be returned.

In addition, if C<$input_filename_or_reference> is a simple filename,
the default values for
the C<Name>, C<Time>, C<TextFlag>, C<ExtAttr>, C<exUnixN> and C<exTime> options will be sourced from
that file.

If you do not want to use these defaults they can be overridden by
explicitly setting the C<Name>, C<Time>, C<TextFlag>, C<ExtAttr>, C<exUnixN> and C<exTime> options or by
setting the
C<Minimal> parameter.
The parameter $\texttt{output_filename_or_reference}$ is used to control the destination of the compressed data. This parameter can take one of these forms.

- **A filename**
  
  If the $\texttt{output_filename_or_reference}$ parameter is a simple scalar, it is assumed to be a filename. This file will be opened for writing and the compressed data will be written to it.

- **A filehandle**
  
  If the $\texttt{output_filename_or_reference}$ parameter is a filehandle, the compressed data will be written to it. The string `-' can be used as an alias for standard output.

- **A scalar reference**
  
  If $\texttt{output_filename_or_reference}$ is a scalar reference, the compressed data will be stored in $\texttt{output_filename_or_reference}$.

- **An Array Reference**
  
  If $\texttt{output_filename_or_reference}$ is an array reference, the compressed data will be pushed onto the array.

- **An Output FileGlob**
  
  If $\texttt{output_filename_or_reference}$ is a string that is delimited by the characters "<" and ">" $\texttt{zip}$ will assume that it is an $\texttt{output fileglob string}$. The output is the list of files that match the fileglob.

  When $\texttt{output_filename_or_reference}$ is a fileglob string, $\texttt{input_filename_or_reference}$ must also be a fileglob string. Anything else is an error.

  See L<File::GlobMapper|File::GlobMapper> for more details.

If the $\texttt{output_filename_or_reference}$ parameter is any other type, $\texttt{undef}$ will be returned.
=head2 Notes

When \$input_filename_or_reference\ maps to multiple files/buffers and \$output_filename_or_reference\ is a single file/buffer the input files/buffers will each be stored in \$output_filename_or_reference\ as a distinct entry.

=head2 Optional Parameters

Unless specified below, the optional parameters for \$zip\, \$OPTS\, are the same as those used with the OO interface defined in the \L<"Constructor Options"> section below.

=item C<< AutoClose => 0|1 >>

This option applies to any input or output data streams to \$zip\ that are filehandles.

If \$AutoClose\ is specified, and the value is true, it will result in all input and/or output filehandles being closed once \$zip\ has completed.

This parameter defaults to 0.

=item C<< BinModeIn => 0|1 >>

When reading from a file or filehandle, set \$binmode\ before reading.

Defaults to 0.

=item C<< Append => 0|1 >>

The behaviour of this option is dependent on the type of output data stream.

=item * A Buffer

If \$Append\ is enabled, all compressed data will be append to the end of the output buffer. Otherwise the output buffer will be cleared before any compressed data is written to it.

=item * A Filename

If \$Append\ is enabled, the file will be opened in append mode. Otherwise
the contents of the file, if any, will be truncated before any compressed data is written to it.

=item * A Filehandle

If C<Append> is enabled, the filehandle will be positioned to the end of the file via a call to C<seek> before any compressed data is written to it. Otherwise the file pointer will not be moved.

=back

When C<Append> is specified, and set to true, it will I<append> all compressed data to the output data stream.

So when the output is a filehandle it will carry out a seek to the eof before writing any compressed data. If the output is a filename, it will be opened for appending. If the output is a buffer, all compressed data will be appended to the existing buffer.

Conversely when C<Append> is not specified, or it is present and is set to false, it will operate as follows.

When the output is a filename, it will truncate the contents of the file before writing any compressed data. If the output is a filehandle its position will not be changed. If the output is a buffer, it will be wiped before any compressed data is output.

Defaults to 0.

=back

=head2 Examples

To read the contents of the file C<file1.txt> and write the compressed data to the file C<file1.txt.zip>.

    use strict ;
    use warnings ;
    use IO::Compress::Zip qw(zip $ZipError) ;

    my $input = "file1.txt";
    zip $input => "$input.zip"
        or die "zip failed: $ZipError\n";

To read from an existing Perl filehandle, C<$input>, and write the compressed data to a buffer, C<$buffer>.

    use strict ;
use warnings;
use IO::Compress::Zip qw(zip $ZipError);
use IO::File;

my $input = new IO::File "<file1.txt"
  or die "Cannot open 'file1.txt': $!\n";
my $buffer;
zip $input => $buffer
  or die "zip failed: $ZipError\n";

To create a zip file, C<output.zip>, that contains the compressed contents of the files C<alpha.txt> and C<beta.txt>

use strict;
use warnings;
use IO::Compress::Zip qw(zip $ZipError);

to create a zip file, C<output.zip>, that contains the compressed contents of the files C<alpha.txt> and C<beta.txt>

use strict;
use warnings;
use IO::Compress::Zip qw(zip $ZipError);

zip ['alpha.txt', 'beta.txt'] => 'output.zip'
  or die "zip failed: $ZipError\n";

Alternatively, rather than having to explicitly name each of the files that you want to compress, you could use a fileglob to select all the C<txt> files in the current directory, as follows

use strict;
use warnings;
use IO::Compress::Zip qw(zip $ZipError);

my @files = <*.txt>;
zip @files => 'output.zip'
  or die "zip failed: $ZipError\n";

or more succinctly

zip [<*.txt>] => 'output.zip'
  or die "zip failed: $ZipError\n";

=head1 OO Interface

=head2 Constructor

The format of the constructor for C<IO::Compress::Zip> is shown below

my $z = new IO::Compress::Zip $output [, $OPTS]
  or die "IO::Compress::Zip failed: $ZipError\n";

It returns an C<IO::Compress::Zip> object on success and undef on failure. The variable C<$ZipError> will contain an error message on failure.
If you are running Perl 5.005 or better the object, C<$z$>, returned from
IO::Compress::Zip can be used exactly like an L<IO::File> filehandle.
This means that all normal output file operations can be carried out
with C<$z$>.
For example, to write to a compressed file/buffer you can use either of
these forms

   $z->print("hello world\n");
   print $z "hello world\n";

The mandatory parameter C<$output$> is used to control the destination
of the compressed data. This parameter can take one of these forms.

=over 5
=item A filename

If the C<$output$> parameter is a simple scalar, it is assumed to be a
filename. This file will be opened for writing and the compressed data
will be written to it.

=item A filehandle

If the C<$output$> parameter is a filehandle, the compressed data will be
written to it.
The string '-' can be used as an alias for standard output.

=item A scalar reference

If C<$output$> is a scalar reference, the compressed data will be stored
in C<$output$>.

=back

If the C<$output$> parameter is any other type, C<IO::Compress::Zip>::new will
return undef.

=head2 Constructor Options

C<$OPTS$> is any combination of the following options:

=over 5
=item C<< AutoClose => 0|1 >>

This option is only valid when the C<$output$> parameter is a filehandle. If
specified, and the value is true, it will result in the C<$output$> being
closed once either the C<close> method is called or the C<IO::Compress::Zip> object is destroyed.

This parameter defaults to 0.

=item C<< Append => 0|1 >>

Opens C<$output> in append mode.

The behaviour of this option is dependent on the type of C<$output>.

=over 5

=item * A Buffer

If C<$output> is a buffer and C<Append> is enabled, all compressed data will be append to the end of C<$output>. Otherwise C<$output> will be cleared before any data is written to it.

=item * A Filename

If C<$output> is a filename and C<Append> is enabled, the file will be opened in append mode. Otherwise the contents of the file, if any, will be truncated before any compressed data is written to it.

=item * A Filehandle

If C<$output> is a filehandle, the file pointer will be positioned to the end of the file via a call to C<seek> before any compressed data is written to it. Otherwise the file pointer will not be moved.

=back

This parameter defaults to 0.

=item C<< Name => $string >>

Stores the contents of C<$string> in the zip filename header field.

If C<Name> is not specified and the C<$input> parameter is a filename, the value of C<$input> will be used for the zip filename header field.

If C<Name> is not specified and the C<$input> parameter is not a filename, no zip filename field will be created.

Note that both the C<CanonicalName> and C<FilterName> options can modify the value used for the zip filename header field.
This option controls whether the filename field in the zip header is normalized into Unix format before being written to the zip file.

It is recommended that you enable this option unless you really need to create a non-standard Zip file.

This is what APPNOTE.TXT has to say on what should be stored in the zip filename header field.

The name of the file, with optional relative path. The path stored should not contain a drive or device letter, or a leading slash. All slashes should be forward slashes '/' as opposed to backwards slashes '/' for compatibility with Amiga and UNIX file systems etc.

This option defaults to false.

This option allow the filename field in the zip header to be modified before it is written to the zip file.

This option takes a parameter that must be a reference to a sub. On entry to the sub the $$_ variable will contain the name to be filtered. If no filename is available $$_ will contain an empty string.

The value of $$_ when the sub returns will be stored in the filename header field.

Note that if CanonicalName is enabled, a normalized filename will be passed to the sub.

If you use FilterName to modify the filename, it is your responsibility to keep the filename in Unix format.

Although this option can be used with the OO interface, it is of most use with the one-shot interface. For example, the code below shows how FilterName can be used to remove the path component from a series of filenames before they are stored in C<zipfile>.

```perl
sub compressTxtFiles
{
    my $zipfile = shift ;
    my $dir     = shift ;
```
zip [ <$dir/*.txt> ] => $zipfile,
    FilterName => sub { s[^$dir/][] } ;
}

=item C<< Time => $number >>

Sets the last modified time field in the zip header to $number.

This field defaults to the time the C<IO::Compress::Zip> object was created if this option is not specified and the C<$input> parameter is not a filename.

=item C<< ExtAttr => $attr >>

This option controls the "external file attributes" field in the central header of the zip file. This is a 4 byte field.

If you are running a Unix derivative this value defaults to

0100644 << 16

This should allow read/write access to any files that are extracted from the zip file/buffer.

For all other systems it defaults to 0.

=item C<< exTime => [$atime, $mtime, $ctime] >>

This option expects an array reference with exactly three elements: C<$atime>, C<mtime> and C<$ctime>. These correspond to the last access time, last modification time and creation time respectively.

It uses these values to set the extended timestamp field (ID is "UT") in the local zip header using the three values, $atime, $mtime, $ctime. In addition it sets the extended timestamp field in the central zip header using C<$mtime>.

If any of the three values is C<undef> that time value will not be used. So, for example, to set only the C<$mtime> you would use this

exTime => [undef, $mtime, undef]

If the C<Minimal> option is set to true, this option will be ignored.

By default no extended time field is created.

=item C<< exUnix2 => [$uid, $gid] >>
This option expects an array reference with exactly two elements: C<$uid> and C<$gid>. These values correspond to the numeric User ID (UID) and Group ID (GID) of the owner of the files respectively.

When the C<exUnix2> option is present it will trigger the creation of a Unix2 extra field (ID is "Ux") in the local zip header. This will be populated with C<$uid> and C<$gid>. An empty Unix2 extra field will also be created in the central zip header.

Note - The UID & GID are stored as 16-bit integers in the "Ux" field. Use C<< exUnixN >> if your UID or GID are 32-bit.

If the C<Minimal> option is set to true, this option will be ignored.

By default no Unix2 extra field is created.

=item C<< exUnixN => [Suid, Sgid] >>

This option expects an array reference with exactly two elements: C<$uid> and C<$gid>. These values correspond to the numeric User ID (UID) and Group ID (GID) of the owner of the files respectively.

When the C<exUnixN> option is present it will trigger the creation of a UnixN extra field (ID is "ux") in both the local and central zip headers. This will be populated with C<$uid> and C<$gid>. The UID & GID are stored as 32-bit integers.

If the C<Minimal> option is set to true, this option will be ignored.

By default no UnixN extra field is created.

=item C<< Username => $username >>

Stores the contents of C<$username> in the Central File Header of the zip file.

By default, no comment field is written to the zip file.

=item C<< ZipComment => $comment >>

Stores the contents of C<$comment> in the End of Central Directory record of the zip file.

By default, no comment field is written to the zip file.

=item C<< Method => $method >>
Controls which compression method is used. At present four compression methods are supported, namely Store (no compression at all), Deflate, Bzip2 and Lzma.

The symbols, ZIP_CM_STORE, ZIP_CM_DEFLATE, ZIP_CM_BZIP2 and ZIP_CM_LZMA are used to select the compression method.

These constants are not imported by C<IO::Compress::Zip> by default.

    use IO::Compress::Zip qw(:zip_method);
    use IO::Compress::Zip qw(:constants);
    use IO::Compress::Zip qw(:all);

Note that to create Bzip2 content, the module C<IO::Compress::Bzip2> must be installed. A fatal error will be thrown if you attempt to create Bzip2 content when C<IO::Compress::Bzip2> is not available.

Note that to create Lzma content, the module C<IO::Compress::Lzma> must be installed. A fatal error will be thrown if you attempt to create Lzma content when C<IO::Compress::Lzma> is not available.

The default method is ZIP_CM_DEFLATE.

=item C<< Stream => 0|1 >>

This option controls whether the zip file/buffer output is created in streaming mode.

Note that when outputting to a file with streaming mode disabled (C<Stream> is 0), the output file must be seekable.

The default is 1.

=item C<< Zip64 => 0|1 >>

Create a Zip64 zip file/buffer. This option is used if you want to store files larger than 4 Gig or store more than 64K files in a single zip archive.

C<Zip64> will be automatically set, as needed, if working with the one-shot interface when the input is either a filename or a scalar reference.

If you intend to manipulate the Zip64 zip files created with this module using an external zip/unzip, make sure that it supports Zip64.

In particular, if you are using Info-Zip you need to have zip version 3.x or better to update a Zip64 archive and unzip version 6.x to read a zip64 archive.
The default is 0.

=item TextFlag => 0|1 >>

This parameter controls the setting of a bit in the zip central header. It is used to signal that the data stored in the zip file/buffer is probably text.

In one-shot mode this flag will be set to true if the Perl C<-T> operator thinks the file contains text.

The default is 0.

=item ExtraFieldLocal => $data >>

=item ExtraFieldCentral => $data >>

The C<ExtraFieldLocal> option is used to store additional metadata in the local header for the zip file/buffer. The C<ExtraFieldCentral> does the same for the matching central header.

An extra field consists of zero or more subfields. Each subfield consists of a two byte header followed by the subfield data.

The list of subfields can be supplied in any of the following formats

ExtraFieldLocal => [ $id1, $data1, $id2, $data2, ... ]

ExtraFieldLocal => [ [ $id1 => $data1 ], [ $id2 => $data2 ], ... ]

ExtraFieldLocal => { $id1 => $data1, $id2 => $data2, ... }

Where C<$id1>, C<$id2> are two byte subfield ID's.

If you use the hash syntax, you have no control over the order in which the ExtraSubFields are stored, plus you cannot have SubFields with duplicate ID.
Alternatively the list of subfields can by supplied as a scalar, thus

```perl
ExtraField => $rawdata
```

In this case \texttt{IO::Compress::Zip} will check that \texttt{$rawdata} consists of zero or more conformant sub-fields.

The Extended Time field (ID "UT"), set using the \texttt{exTime} option, and the Unix2 extra field (ID "Ux"), set using the \texttt{exUnix2} option, are examples of extra fields.

If the \texttt{Minimal} option is set to true, this option will be ignored.

The maximum size of an extra field 65535 bytes.

```perl
=item C<< Minimal => 1|0 >>
```

If specified, this option will disable the creation of all extra fields in the zip local and central headers. So the \texttt{exTime}, \texttt{exUnix2}, \texttt{exUnixN}, \texttt{ExtraFieldLocal} and \texttt{ExtraFieldCentral} options will be ignored.

This parameter defaults to 0.

```perl
=item C<< BlockSize100K => number >>
```

Specify the number of 100K blocks bzip2 uses during compression.

Valid values are from 1 to 9, where 9 is best compression.

This option is only valid if the \texttt{Method} is \texttt{ZIP_CM_BZIP2}. It is ignored otherwise.

The default is 1.

```perl
=item C<< WorkFactor => number >>
```

Specifies how much effort bzip2 should take before resorting to a slower fallback compression algorithm.

Valid values range from 0 to 250, where 0 means use the default value 30.

This option is only valid if the \texttt{Method} is \texttt{ZIP_CM_BZIP2}. It is ignored otherwise.

The default is 0.

```perl
=item C<< Preset => number >>
```
Used to choose the LZMA compression preset.

Valid values are 0-9 and \$\text{LZMA\_PRESET\_DEFAULT}\$.

0 is the fastest compression with the lowest memory usage and the lowest compression.

9 is the slowest compression with the highest memory usage but with the best compression.

This option is only valid if the \$\text{Method}\$ is ZIP\_CM\_LZMA. It is ignored otherwise.

Defaults to \$\text{LZMA\_PRESET\_DEFAULT}\$ (6).

=item C<< Extreme => 0|1 >>

Makes LZMA compression a lot slower, but a small compression gain.

This option is only valid if the \$\text{Method}\$ is ZIP\_CM\_LZMA. It is ignored otherwise.

Defaults to 0.

=item -Level

Defines the compression level used by zlib. The value should either be a number between 0 and 9 (0 means no compression and 9 is maximum compression), or one of the symbolic constants defined below.

\begin{verbatim}
Z_NO_COMPRESSION
Z_BEST_SPEED
Z_BEST_COMPRESSION
Z_DEFAULT_COMPRESSION
\end{verbatim}

The default is Z_DEFAULT_COMPRESSION.

Note, these constants are not imported by \$\text{IO::Compress::Zip}\$ by default.

use IO::Compress::Zip qw(:strategy);
use IO::Compress::Zip qw(:constants);
use IO::Compress::Zip qw(:all);

=item -Strategy

Defines the strategy used to tune the compression. Use one of the symbolic constants defined below.
Z_FILTERED
Z_HUFFMAN_ONLY
Z_RLE
Z_FIXED
Z_DEFAULT_STRATEGY

The default is Z_DEFAULT_STRATEGY.

=item C<< Strict => 0|1 >>

This is a placeholder option.

=back

=head2 Examples

TODO

=head1 Methods

=head2 print

Usage is

$z->print($data)
  print $z $data

Compresses and outputs the contents of the C<$data> parameter. This has the same behaviour as the C<print> built-in.

Returns true if successful.

=head2 printf

Usage is

$z->printf($format, $data)
  printf $z $format, $data

Compresses and outputs the contents of the C<$data> parameter.

Returns true if successful.

=head2 syswrite
Compresses and outputs the contents of the $data parameter.

Returns the number of uncompressed bytes written, or undef if unsuccessful.

=head2 write

Usage is

$z->write $data
$z->write $data, $length
$z->write $data, $length, $offset

Compresses and outputs the contents of the $data parameter.

Returns the number of uncompressed bytes written, or undef if unsuccessful.

=head2 flush

Usage is

$z->flush;
$z->flush($flush_type);

Flushes any pending compressed data to the output file/buffer.

This method takes an optional parameter, $flush_type, that controls how the flushing will be carried out. By default the $flush_type used is Z_FINISH. Other valid values for $flush_type are Z_NO_FLUSH, Z_SYNC_FLUSH, Z_FULL_FLUSH and Z_BLOCK. It is strongly recommended that you only set the $flush_type parameter if you fully understand the implications of what it does - overuse of flush can seriously degrade the level of compression achieved. See the zlib documentation for details.

Returns true on success.

=head2 tell

Usage is

$z->tell()
tell $z
Returns the uncompressed file offset.

=head2 eof

Usage is

$z->eof();
eof($z);

Returns true if the C<close> method has been called.

=head2 seek

$z->seek($position, $whence);
seek($z, $position, $whence);

Provides a sub-set of the C<seek> functionality, with the restriction that it is only legal to seek forward in the output file/buffer. It is a fatal error to attempt to seek backward.

Empty parts of the file/buffer will have NULL (0x00) bytes written to them.

The C<$whence> parameter takes one the usual values, namely SEEK_SET, SEEK_CUR or SEEK_END.

Returns 1 on success, 0 on failure.

=head2 binmode

Usage is

$z->binmode
binmode $z ;

This is a noop provided for completeness.

=head2 opened

$z->opened()

Returns true if the object currently refers to a opened file/buffer.

=head2 autoflush

my $prev = $z->autoflush()
my $prev = $z->autoflush(EXPR)
If the C<$z> object is associated with a file or a filehandle, this method returns the current autoflush setting for the underlying filehandle. If C<EXPR> is present, and is non-zero, it will enable flushing after every write/print operation.

If C<$z> is associated with a buffer, this method has no effect and always returns C<undef>.

B<Note> that the special variable C<$|> B<cannot> be used to set or retrieve the autoflush setting.

=head2 input_line_number

$z->input_line_number()
$z->input_line_number(EXPR)

This method always returns C<undef> when compressing.

=head2 fileno

$z->fileno()
fileno($z)

If the C<$z> object is associated with a file or a filehandle, C<fileno> will return the underlying file descriptor. Once the C<close> method is called C<fileno> will return C<undef>.

If the C<$z> object is associated with a buffer, this method will return C<undef>.

=head2 close

$z->close() ;
close $z ;

Flushes any pending compressed data and then closes the output file/buffer.

For most versions of Perl this method will be automatically invoked if the IO::Compress::Zip object is destroyed (either explicitly or by the variable with the reference to the object going out of scope). The exceptions are Perl versions 5.005 through 5.00504 and 5.8.0. In these cases, the C<close> method will be called automatically, but not until global destruction of all live objects when the program is terminating.

Therefore, if you want your scripts to be able to run on all versions of Perl, you should call C<close> explicitly and not rely on automatic closing.
Returns true on success, otherwise 0.

If the C<AutoClose> option has been enabled when the IO::Compress::Zip object was created, and the object is associated with a file, the underlying file will also be closed.

=head2 newStream([OPTS])

Usage is

$z->newStream( [OPTS] )

Closes the current compressed data stream and starts a new one.

OPTS consists of any of the options that are available when creating the C<$z> object.

See the L</"Constructor Options"> section for more details.

=head2 deflateParams

Usage is

$z->deflateParams

TODO

=head1 Importing

A number of symbolic constants are required by some methods in C<IO::Compress::Zip>. None are imported by default.

=over 5
=item :all

Imports C<zip>, C<$ZipError> and all symbolic constants that can be used by C<IO::Compress::Zip>. Same as doing this

    use IO::Compress::Zip qw(zip $ZipError :constants) ;

=item :constants

Import all symbolic constants. Same as doing this

    use IO::Compress::Zip qw(:flush :level :strategy :zip_method) ;
These symbolic constants are used by the C<flush> method.

Z_NO_FLUSH
Z_PARTIAL_FLUSH
Z_SYNC_FLUSH
Z_FULL_FLUSH
Z_FINISH
Z_BLOCK

These symbolic constants are used by the C<Level> option in the constructor.

Z_NO_COMPRESSION
Z_BEST_SPEED
Z_BEST_COMPRESSION
Z_DEFAULT_COMPRESSION

These symbolic constants are used by the C<Strategy> option in the constructor.

Z_FILTERED
Z_HUFFMAN_ONLY
Z_RLE
Z_FIXED
Z_DEFAULT_STRATEGY

These symbolic constants are used by the C<Method> option in the constructor.

ZIP_CM_STORE
ZIP_CM_DEFLATE
ZIP_CM_BZIP2

EXAMPLES

Apache::GZip Revisited

See L<IO::Compress::FAQ|IO::Compress::FAQ/"Apache::GZip Revisited">

Working with Net::FTP
See L<IO::Compress::FAQ|IO::Compress::FAQ/"Compressed files and Net::FTP">

=head1 SEE ALSO

L<Compress::Zlib>, L<IO::Compress::Gzip>, L<IO::Uncompress::Gunzip>, L<IO::Compress::Deflate>,
L<IO::Uncompress::Inflate>, L<IO::Compress::RawDeflate>, L<IO::Uncompress::RawInflate>,
L<IO::Compress::Bzip2>, L<IO::Uncompress::Bunzip2>, L<IO::Compress::Lzma>,
L<IO::Uncompress::UnLzma>, L<IO::Compress::Xz>, L<IO::Uncompress::UnXz>, L<IO::Compress::Lzop>,
L<IO::Uncompress::UnLzop>, L<IO::Compress::Lzf>, L<IO::Uncompress::UnLfz>,
L<IO::Uncompress::AnyInflate>, L<IO::Uncompress::AnyUncompress>

L<IO::Compress::FAQ|IO::Compress::FAQ>

L<File::GlobMapper|File::GlobMapper>, L<Archive::Zip|Archive::Zip>,
L<Archive::Tar|Archive::Tar>,
L<IO::Zlib|IO::Zlib>

For RFC 1950, 1951 and 1952 see
L<http://www.faqs.org/rfcs/rfc1950.html>,
L<http://www.faqs.org/rfcs/rfc1951.html> and

The I<zlib> compression library was written by Jean-loup Gailly
C<gzip@prep.ai.mit.edu> and Mark Adler C<madler@alumni.caltech.edu>.

The primary site for the I<zlib> compression library is

The primary site for gzip is L<http://www.gzip.org>.

=head1 AUTHOR

This module was written by Paul Marquess, C<pmqs@cpan.org>.

=head1 MODIFICATION HISTORY

See the Changes file.

=head1 COPYRIGHT AND LICENSE

Copyright (c) 2005-2018 Paul Marquess. 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):
* /opt/cola/permits/1178587419_1625692217.01/0/perl-IO-Compress-2.081-1.el8-1.src.rpm-cosi-expand-archive-
NAME

zipdetails - display the internal structure of zip files

SYNOPSIS

zipdetails [-v] zipfile.zip
zipdetails -h

DESCRIPTION

Zipdetails displays information about the internal record structure of the zip file. It is not concerned with displaying any details of the compressed data stored in the zip file.

The program assumes prior understanding of the internal structure of a Zip file. You should have a copy of the Zip APPNOTE file at hand to help understand the output from this program (L<SEE ALSO> for details).

OPTIONS

=over 5
=item -v
Enable Verbose mode
=item -h
Display help
=back

By default zipdetails will output the details of the zip file in three columns.

=over 5
=item Column 1
This contains the offset from the start of the file in hex.
=item Column 2
This contains a textual description of the field.

==item Column 3

If the field contains a numeric value it will be displayed in hex. Zip stored most numbers in little-endian format - the value displayed will have the little-endian encoding removed.

Next, is an optional description of what the value means.

=back

If the C<-v> option is present, column 1 is expanded to include

=over 5

=item *

The offset from the start of the file in hex.

=item *

The length of the field in hex.

=item *

A hex dump of the bytes in field in the order they are stored in the zip file.

=back

=head1 TODO

Error handling is still a work in progress. If the program encounters a problem reading a zip file it is likely to terminate with an unhelpful error message.

=head1 SEE ALSO


An alternative reference is the Info-Zip appnote. This is available from
The C<zipinfo> program that comes with the info-zip distribution
(L<http://www.info-zip.org/>) can also display details of the structure of
a zip file.

See also L<Archive::Zip::SimpleZip>, L<IO::Compress::Zip>,
L<IO::Uncompress::Unzip>.

=head1 AUTHOR

Paul Marquess F<pmqs@cpan.org>.

=head1 COPYRIGHT

Copyright (c) 2011-2018 Paul Marquess. 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):
* /opt/cola/permits/1178587419_1625692217.01/0/perl-IO-Compress-2.081-1.el8-1.src.rpm-cosi-expand-archive-
oy3VzoZ3/IO-Compress-2.081.tar.gz-cosi-expand-archive-vIwBVDwW/IO-Compress-2.081/bin/zipdetails
No license file was found, but licenses were detected in source scan.

=head1 NAME

IO::Compress::Base - Base Class for IO::Compress modules

=head1 SYNOPSIS

use IO::Compress::Base ;

=head1 DESCRIPTION

This module is not intended for direct use in application code. Its sole
purpose is to be sub-classed by IO::Compress modules.

=head1 SEE ALSO

L<Compress::Zlib>, L<IO::Compress::Gzip>, L<IO::Uncompress::Gunzip>, L<IO::Compress::Deflate>,
L<IO::Uncompress::Inflate>, L<IO::Compress::RawDeflate>, L<IO::Uncompress::RawInflate>,
L<IO::Compress::Bzip2>, L<IO::Uncompress::Bunzip2>, L<IO::Compress::Lzma>,
L<IO::Uncompress::UnLzma>, L<IO::Compress::Xz>, L<IO::Uncompress::UnXz>, L<IO::Compress::Lzop>,
L<IO::Uncompress::UnLzop>, L<IO::Compress::Lzf>, L<IO::Uncompress::UnLzf>,
L<IO::Uncompress::AnyInflate>, L<IO::Uncompress::AnyUncompress>
=head1 AUTHOR

This module was written by Paul Marquess, C<pmqs@cpan.org>.

=head1 MODIFICATION HISTORY

See the Changes file.

=head1 COPYRIGHT AND LICENSE

Copyright (c) 2005-2018 Paul Marquess. 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.

=head1 NAME

IO::Uncompress::AnyUncompress - Uncompress gzip, zip, bzip2 or lzop file/buffer

=head1 SYNOPSIS

use IO::Uncompress::AnyUncompress qw(anyuncompress $AnyUncompressError) ;

my $status = anyuncompress $input => $output [,OPTS]
    or die "anyuncompress failed: $AnyUncompressError\n";

my $z = new IO::Uncompress::AnyUncompress $input [OPTS]
    or die "anyuncompress failed: $AnyUncompressError\n";

$status = $z->read($buffer)
$status = $z->read($buffer, $length)
$status = $z->read($buffer, $length, $offset)
$line = $z->getline()
$char = $z->getc()
$char = $z->ungetc()
This module provides a Perl interface that allows the reading of files/buffers that have been compressed with a variety of compression libraries.

The formats supported are:

- RFC 1950
- RFC 1951 (optionally)
- gzip (RFC 1952)
- zip
- bzip2
- lzop
The module will auto-detect which, if any, of the supported compression formats is being used.

=head1 Functional Interface

A top-level function, C<anyuncompress>, is provided to carry out "one-shot" uncompression between buffers and/or files. For finer control over the uncompression process, see the L</"OO Interface"> section.

use IO::Uncompress::AnyUncompress qw(anyuncompress $AnyUncompressError) ;

anyuncompress $input_filename_or_reference => $output_filename_or_reference [,OPTS]
or die "anyuncompress failed: $AnyUncompressError\n";

The functional interface needs Perl5.005 or better.

=head2 anyuncompress $input_filename_or_reference => $output_filename_or_reference [, OPTS]

C<anyuncompress> expects at least two parameters, C<$input_filename_or_reference> and C<$output_filename_or_reference>.

=head3 The C<$input_filename_or_reference> parameter

The parameter, C<$input_filename_or_reference>, is used to define the source of the compressed data.

It can take one of the following forms:

=over 5

=item A filename

If the C<$input_filename_or_reference> parameter is a simple scalar, it is assumed to be a filename. This file will be opened for reading and the input data will be read from it.

=item A filehandle


If the C<$input_filename_or_reference> parameter is a filehandle, the input data will be read from it. The string '-' can be used as an alias for standard input.

=item A scalar reference

If C<$input_filename_or_reference> is a scalar reference, the input data will be read from C<$$input_filename_or_reference>.

=item An array reference

If C<$input_filename_or_reference> is an array reference, each element in the array must be a filename.

The input data will be read from each file in turn.

The complete array will be walked to ensure that it only contains valid filenames before any data is uncompressed.

=item An Input FileGlob string

If C<$input_filename_or_reference> is a string that is delimited by the characters "<" and ">" C<anyuncompress> will assume that it is an I<input fileglob string>. The input is the list of files that match the fileglob.

See L<File::GlobMapper|File::GlobMapper> for more details.

=back

If the C<$input_filename_or_reference> parameter is any other type, C<undef> will be returned.

=head3 The C<$output_filename_or_reference> parameter

The parameter C<$output_filename_or_reference> is used to control the destination of the uncompressed data. This parameter can take one of these forms.

=over 5

=item A filename

If the C<$output_filename_or_reference> parameter is a simple scalar, it is assumed to be a filename. This file will be opened for writing and the uncompressed data will be written to it.

=item A filehandle


If the \$output_filename_or_reference parameter is a filehandle, the uncompressed data will be written to it. The string `-' can be used as an alias for standard output.

=item A scalar reference

If \$output_filename_or_reference is a scalar reference, the uncompressed data will be stored in \$output_filename_or_reference.

=item An Array Reference

If \$output_filename_or_reference is an array reference, the uncompressed data will be pushed onto the array.

=item An Output FileGlob

If \$output_filename_or_reference is a string that is delimited by the characters "<" and ">" \$anyuncompress will assume that it is an I<output fileglob string>. The output is the list of files that match the fileglob.

When \$output_filename_or_reference is an fileglob string, \$input_filename_or_reference must also be a fileglob string. Anything else is an error.

See L<File::GlobMapper> for more details.

=back

If the \$output_filename_or_reference parameter is any other type, \$undef will be returned.

=head2 Notes

When \$input_filename_or_reference maps to multiple compressed files/buffers and \$output_filename_or_reference is a single file/buffer, after uncompression \$output_filename_or_reference will contain a concatenation of all the uncompressed data from each of the input files/buffers.

=head2 Optional Parameters

Unless specified below, the optional parameters for \$anyuncompress, \$OPTS, are the same as those used with the OO interface defined in the L</"Constructor Options"> section below.
This option applies to any input or output data streams to any uncompress that are filehandles.

If AutoClose is specified, and the value is true, it will result in all input and/or output filehandles being closed once any uncompress has completed.

This parameter defaults to 0.

When writing to a file or filehandle, set binmode before writing to the file.

Defaults to 0.

The behaviour of this option is dependent on the type of output data stream.

If Append is enabled, all uncompressed data will be append to the end of the output buffer. Otherwise the output buffer will be cleared before any uncompressed data is written to it.

If Append is enabled, the file will be opened in append mode. Otherwise the contents of the file, if any, will be truncated before any uncompressed data is written to it.

If Append is enabled, the filehandle will be positioned to the end of the file via a call to seek before any uncompressed data is written to it. Otherwise the file pointer will not be moved.

When Append is specified, and set to true, it will append all uncompressed data to the output data stream.
So when the output is a filehandle it will carry out a seek to the eof before writing any uncompressed data. If the output is a filename, it will be opened for appending. If the output is a buffer, all uncompressed data will be appended to the existing buffer.

Conversely when C<Append> is not specified, or it is present and is set to false, it will operate as follows.

When the output is a filename, it will truncate the contents of the file before writing any uncompressed data. If the output is a filehandle its position will not be changed. If the output is a buffer, it will be wiped before any uncompressed data is output.

Defaults to 0.

=item C<< MultiStream => 0|1 >>

If the input file/buffer contains multiple compressed data streams, this option will uncompress the whole lot as a single data stream.

Defaults to 0.

=item C<< TrailingData => $scalar >>

Returns the data, if any, that is present immediately after the compressed data stream once uncompression is complete.

This option can be used when there is useful information immediately following the compressed data stream, and you don't know the length of the compressed data stream.

If the input is a buffer, C<trailingData> will return everything from the end of the compressed data stream to the end of the buffer.

If the input is a filehandle, C<trailingData> will return the data that is left in the filehandle input buffer once the end of the compressed data stream has been reached. You can then use the filehandle to read the rest of the input file.

Don't bother using C<trailingData> if the input is a filename.

If you know the length of the compressed data stream before you start uncompressing, you can avoid having to use C<trailingData> by setting the C<InputLength> option.

=back
Examples

To read the contents of the file `file1.txt.Compressed` and write the uncompressed data to the file `file1.txt`.

```perl
use strict;
use warnings;
use IO::Uncompress::AnyUncompress qw(anyuncompress $AnyUncompressError);

my $input = "file1.txt.Compressed";
my $output = "file1.txt";
anyuncompress $input => $output
  or die "anyuncompress failed: $AnyUncompressError\n";
```

To read from an existing Perl filehandle, `$_input`, and write the uncompressed data to a buffer, `$_buffer`.

```perl
use strict;
use warnings;
use IO::Uncompress::AnyUncompress qw(anyuncompress $AnyUncompressError);
use IO::File;

my $input = new IO::File "<file1.txt.Compressed"
  or die "Cannot open 'file1.txt.Compressed': $!\n";
my $buffer;
anyuncompress $input => $buffer
  or die "anyuncompress failed: $AnyUncompressError\n";
```

To uncompress all files in the directory `/my/home` that match `*.txt.Compressed` and store the compressed data in the same directory.

```perl
use strict;
use warnings;
use IO::Uncompress::AnyUncompress qw(anyuncompress $AnyUncompressError);

anyuncompress '</my/home/*.txt.Compressed>' => '</my/home/#1.txt>'
  or die "anyuncompress failed: $AnyUncompressError\n";
```

and if you want to compress each file one at a time, this will do the trick

```perl
use strict;
use warnings;
use IO::Uncompress::AnyUncompress qw(anyuncompress $AnyUncompressError);

for my $input ( glob "/my/home/*.txt.Compressed" )
{
  my $output = $input;
  $output =~ s/.Compressed//;
  ...
```
anyuncompress $input => $output
    or die "Error compressing '$input': $AnyUncompressError
;  
=head1 OO Interface

=head2 Constructor

The format of the constructor for IO::Uncompress::AnyUncompress is shown below

    my $z = new IO::Uncompress::AnyUncompress $input [OPTS]
        or die "IO::Uncompress::AnyUncompress failed: $AnyUncompressError
;

Returns an C<IO::Uncompress::AnyUncompress> object on success and undef on failure. The variable C<$AnyUncompressError> will contain an error message on failure.

If you are running Perl 5.005 or better the object, C<$z>, returned from IO::Uncompress::AnyUncompress can be used exactly like an L<IO::File|IO::File> filehandle. This means that all normal input file operations can be carried out with C<$z>. For example, to read a line from a compressed file/buffer you can use either of these forms

    $line = $z->getline();
    $line = <$z>;

The mandatory parameter C<$input> is used to determine the source of the compressed data. This parameter can take one of three forms.

=over 5

=item A filename

If the C<$input> parameter is a scalar, it is assumed to be a filename. This file will be opened for reading and the compressed data will be read from it.

=item A filehandle

If the C<$input> parameter is a filehandle, the compressed data will be read from it. The string '-' can be used as an alias for standard input.

=item A scalar reference

If C<$input> is a scalar reference, the compressed data will be read from C<$$$input>.
=head2 Constructor Options

The option names defined below are case insensitive and can be optionally prefixed by a `-`. So all of the following are valid:

- AutoClose
  - autoclose
  AUTOCLOSE
  autoclose

OPTS is a combination of the following options:

=over 5

=item C<< AutoClose => 0|1 >>

This option is only valid when the C<$input> parameter is a filehandle. If specified, and the value is true, it will result in the file being closed once either the C<close> method is called or the IO::Uncompress::AnyUncompress object is destroyed.

This parameter defaults to 0.

=item C<< MultiStream => 0|1 >>

Allows multiple concatenated compressed streams to be treated as a single compressed stream. Decompression will stop once either the end of the file/buffer is reached, an error is encountered (premature eof, corrupt compressed data) or the end of a stream is not immediately followed by the start of another stream.

This parameter defaults to 0.

=item C<< Prime => $string >>

This option will uncompress the contents of C<$string> before processing the input file/buffer.

This option can be useful when the compressed data is embedded in another file/data structure and it is not possible to work out where the compressed data begins without having to read the first few bytes. If this is the case, the uncompression can be I<primed> with these bytes using this option.

=item C<< Transparent => 0|1 >>

If this option is set and the input file/buffer is not compressed data, the module will allow reading of it anyway.
In addition, if the input file/buffer does contain compressed data and there is non-compressed data immediately following it, setting this option will make this module treat the whole file/buffer as a single data stream.

This option defaults to 1.

=item C<< BlockSize => $num >>

When reading the compressed input data, IO::Uncompress::AnyUncompress will read it in blocks of C<$num> bytes.

This option defaults to 4096.

=item C<< InputLength => $size >>

When present this option will limit the number of compressed bytes read from the input file/buffer to C<$size>. This option can be used in the situation where there is useful data directly after the compressed data stream and you know beforehand the exact length of the compressed data stream.

This option is mostly used when reading from a filehandle, in which case the file pointer will be left pointing to the first byte directly after the compressed data stream.

This option defaults to off.

=item C<< Append => 0|1 >>

This option controls what the C<read> method does with uncompressed data.

If set to 1, all uncompressed data will be appended to the output parameter of the C<read> method.

If set to 0, the contents of the output parameter of the C<read> method will be overwritten by the uncompressed data.

Defaults to 0.

=item C<< Strict => 0|1 >>

This option controls whether the extra checks defined below are used when carrying out the decompression. When Strict is on, the extra tests are carried out, when Strict is off they are not.

The default for this option is off.
When auto-detecting the compressed format, try to test for raw-deflate (RFC 1951) content using the C<IO::Uncompress::RawInflate> module.

The reason this is not default behaviour is because RFC 1951 content can only be detected by attempting to uncompress it. This process is error prone and can result in false positives.

Defaults to 0.

When auto-detecting the compressed format, try to test for lzma_alone content using the C<IO::Uncompress::UnLzma> module.

The reason this is not default behaviour is because lzma_alone content can only be detected by attempting to uncompress it. This process is error prone and can result in false positives.

Defaults to 0.

Usage is

$status = $z->read($buffer)

Reads a block of compressed data (the size of the compressed block is determined by the C<Buffer> option in the constructor), uncompresses it and writes any uncompressed data into C<$buffer>. If the C<Append> parameter is set in the constructor, the uncompressed data will be appended to the C<$buffer> parameter. Otherwise C<$buffer> will be overwritten.

Returns the number of uncompressed bytes written to C<$buffer>, zero if eof or a negative number on error.
$status = $z->read($buffer, $length)
$status = $z->read($buffer, $length, $offset)

$status = read($z, $buffer, $length)
$status = read($z, $buffer, $length, $offset)

Attempt to read C<$length> bytes of uncompressed data into C<$buffer>.

The main difference between this form of the C<read> method and the previous one, is that this one will attempt to return I<exactly> C<$length> bytes. The only circumstances that this function will not is if end-of-file or an IO error is encountered.

Returns the number of uncompressed bytes written to C<$buffer>, zero if eof or a negative number on error.

=head2 getline

Usage is

$line = $z->getline()
$line = <$z>

Reads a single line.

This method fully supports the use of the variable C<$/> (or C<$INPUT_RECORD_SEPARATOR> or C<$RS> when C<English> is in use) to determine what constitutes an end of line. Paragraph mode, record mode and file slurp mode are all supported.

=head2 getc

Usage is

$char = $z->getc()

Read a single character.

=head2 ungetc

Usage is

$char = $z->ungetc($string)

=head2 getHeaderInfo

Usage is
$hdr = $z->getHeaderInfo();
@hders = $z->getHeaderInfo();

This method returns either a hash reference (in scalar context) or a list or hash references (in array context) that contains information about each of the header fields in the compressed data stream(s).

=head2 tell

Usage is

$z->tell()
tell $z

Returns the uncompressed file offset.

=head2 eof

Usage is

$z->eof();
eof($z);

Returns true if the end of the compressed input stream has been reached.

=head2 seek

$z->seek($position, $whence);
seek($z, $position, $whence);

Provides a sub-set of the C<seek> functionality, with the restriction that it is only legal to seek forward in the input file/buffer. It is a fatal error to attempt to seek backward.

Note that the implementation of C<seek> in this module does not provide true random access to a compressed file/buffer. It works by uncompressing data from the current offset in the file/buffer until it reaches the uncompressed offset specified in the parameters to C<seek>. For very small files this may be acceptable behaviour. For large files it may cause an unacceptable delay.

The C<$whence> parameter takes one the usual values, namely SEEK_SET, SEEK_CUR or SEEK_END.

Returns 1 on success, 0 on failure.

=head2 binmode
Usage is

```perl
$z->binmode
binmode $z;
```

This is a noop provided for completeness.

=head2 opened

```perl
$z->opened()
```

Returns true if the object currently refers to a opened file/buffer.

=head2 autoflush

```perl
my $prev = $z->autoflush()
my $prev = $z->autoflush(EXPR)
```

If the C<$z> object is associated with a file or a filehandle, this method returns the current autoflush setting for the underlying filehandle. If C<EXPR> is present, and is non-zero, it will enable flushing after every write/print operation.

If C<$z> is associated with a buffer, this method has no effect and always returns C<undef>.

B<Note> that the special variable C<$|> B<cannot> be used to set or retrieve the autoflush setting.

=head2 input_line_number

```perl
$z->input_line_number()
$z->input_line_number(EXPR)
```

Returns the current uncompressed line number. If C<EXPR> is present it has the effect of setting the line number. Note that setting the line number does not change the current position within the file/buffer being read.

The contents of C<$/> are used to determine what constitutes a line terminator.

=head2 fileno

```perl
$z->fileno()
fileno($z)
```

If the C<$z> object is associated with a file or a filehandle, C<fileno>
will return the underlying file descriptor. Once the `close` method is called `fileno` will return `undef`.

If the `$z` object is associated with a buffer, this method will return `undef`.

=head2 close

$z->close();
close $z;

Closes the output file/buffer.

For most versions of Perl this method will be automatically invoked if the IO::Uncompress::AnyUncompress object is destroyed (either explicitly or by the variable with the reference to the object going out of scope). The exceptions are Perl versions 5.005 through 5.00504 and 5.8.0. In these cases, the `close` method will be called automatically, but not until global destruction of all live objects when the program is terminating.

Therefore, if you want your scripts to be able to run on all versions of Perl, you should call `close` explicitly and not rely on automatic closing.

Returns true on success, otherwise 0.

If the `AutoClose` option has been enabled when the IO::Uncompress::AnyUncompress object was created, and the object is associated with a file, the underlying file will also be closed.

=head2 nextStream

Usage is

    my $status = $z->nextStream();

Skips to the next compressed data stream in the input file/buffer. If a new compressed data stream is found, the eof marker will be cleared and `$.` will be reset to 0.

Returns 1 if a new stream was found, 0 if none was found, and -1 if an error was encountered.

=head2 trailingData

Usage is
my $data = $z->trailingData();

Returns the data, if any, that is present immediately after the compressed data stream once uncompression is complete. It only makes sense to call this method once the end of the compressed data stream has been encountered.

This option can be used when there is useful information immediately following the compressed data stream, and you don't know the length of the compressed data stream.

If the input is a buffer, C<trailingData> will return everything from the end of the compressed data stream to the end of the buffer.

If the input is a filehandle, C<trailingData> will return the data that is left in the filehandle input buffer once the end of the compressed data stream has been reached. You can then use the filehandle to read the rest of the input file.

Don't bother using C<trailingData> if the input is a filename.

If you know the length of the compressed data stream before you start uncompressing, you can avoid having to use C<trailingData> by setting the C<InputLength> option in the constructor.

=head1 Importing

No symbolic constants are required by this IO::Uncompress::AnyUncompress at present.

=over 5

=item :all

Imports C<anyuncompress> and C<$AnyUncompressError>.
Same as doing this

use IO::Uncompress::AnyUncompress qw(anyuncompress $AnyUncompressError) ;

=back

=head1 EXAMPLES

=head1 SEE ALSO

L<Compress::Zlib>, L<IO::Compress::Gzip>, L<IO::Uncompress::Gunzip>, L<IO::Compress::Deflate>,
L<IO::Uncompress::Inflate>, L<IO::Compress::RawDeflate>, L<IO::Uncompress::RawInflate>,
L<IO::Compress::Bzip2>, L<IO::Uncompress::Bunzip2>, L<IO::Compress::Lzma>,
L<IO::Uncompress::UnLzma>, L<IO::Compress::Xz>, L<IO::Uncompress::UnXz>, L<IO::Compress::Lzop>,
L<IO::Uncompress::UnLzop>, L<IO::Compress::Lzf>, L<IO::Uncompress::UnLzf>, L<IO::Compress::AnyInflate>

L<IO::Compress::FAQ|IO::Compress::FAQ>

L<File::GlobMapper|File::GlobMapper>, L<Archive::Zip|Archive::Zip>, L<Archive::Tar|Archive::Tar>, L<IO::Zlib|IO::Zlib>

=head1 AUTHOR

This module was written by Paul Marquess, C<pmqs@cpan.org>.

=head1 MODIFICATION HISTORY

See the Changes file.

=head1 COPYRIGHT AND LICENSE

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=head1 NAME

IO::Uncompress::Bunzip2 - Read bzip2 files/buffers

=head1 SYNOPSIS

use IO::Uncompress::Bunzip2 qw(bunzip2 $Bunzip2Error) ;

my $status = bunzip2 $input => $output [,OPTS]
or die "bunzip2 failed: $Bunzip2Error\n";

my $z = new IO::Uncompress::Bunzip2 $input [OPTS]
or die "bunzip2 failed: $Bunzip2Error\n";

$status = $z->read($buffer)
$status = $z->read($buffer, $length)
$status = $z->read($buffer, $length, $offset)
$line = $z->getline()
=head1 DESCRIPTION

This module provides a Perl interface that allows the reading of bzip2 files/buffers.

For writing bzip2 files/buffers, see the companion module IO::Compress::Bzip2.

=head1 Functional Interface

A top-level function, C<bunzip2>, is provided to carry out "one-shot" uncompression between buffers and/or files. For finer control over the uncompression process, see the L</"OO Interface"> section.

use IO::Uncompress::Bunzip2 qw(bunzip2 $Bunzip2Error) ;

bunzip2 $input_filename_or_reference => $output_filename_or_reference [,OPTS]
or die "bunzip2 failed: $Bunzip2Error\n";
The functional interface needs Perl5.005 or better.

=head2 bunzip2 $input_filename_or_reference => $output_filename_or_reference [, OPTS]

C<bunzip2> expects at least two parameters,
C<$input_filename_or_reference> and C<$output_filename_or_reference>.

=head3 The C<$input_filename_or_reference> parameter

The parameter, C<$input_filename_or_reference>, is used to define the source of the compressed data.

It can take one of the following forms:

=over 5

=item A filename

If the <$input_filename_or_reference> parameter is a simple scalar, it is assumed to be a filename. This file will be opened for reading and the input data will be read from it.

=item A filehandle

If the C<$input_filename_or_reference> parameter is a filehandle, the input data will be read from it. The string '-' can be used as an alias for standard input.

=item A scalar reference

If C<$input_filename_or_reference> is a scalar reference, the input data will be read from C<$$input_filename_or_reference>.

=item An array reference

If C<$input_filename_or_reference> is an array reference, each element in the array must be a filename. The input data will be read from each file in turn.

The complete array will be walked to ensure that it only contains valid filenames before any data is uncompressed.

=item An Input FileGlob string

If C<$input_filename_or_reference> is a string that is delimited by the characters "<" and ">" C<bunzip2> will assume that it is an I<input fileglob string>. The input is the list of files that match the
fileglob.

See \texttt{File::GlobMapper} for more details.

If the \texttt{input_filename_or_reference} parameter is any other type, \texttt{undef} will be returned.

\textbf{The \texttt{output_filename_or_reference} parameter}

The parameter \texttt{output_filename_or_reference} is used to control the destination of the uncompressed data. This parameter can take one of these forms.

\begin{itemize}
\item A filename
\end{itemize}

If the \texttt{output_filename_or_reference} parameter is a simple scalar, it is assumed to be a filename. This file will be opened for writing and the uncompressed data will be written to it.

\begin{itemize}
\item A filehandle
\end{itemize}

If the \texttt{output_filename_or_reference} parameter is a filehandle, the uncompressed data will be written to it. The string '-' can be used as an alias for standard output.

\begin{itemize}
\item A scalar reference
\end{itemize}

If \texttt{output_filename_or_reference} is a scalar reference, the uncompressed data will be stored in \texttt{output_filename_or_reference}.

\begin{itemize}
\item An Array Reference
\end{itemize}

If \texttt{output_filename_or_reference} is an array reference, the uncompressed data will be pushed onto the array.

\begin{itemize}
\item An Output FileGlob
\end{itemize}

If \texttt{output_filename_or_reference} is a string that is delimited by the characters "<" and ">" \texttt{bunzip2} will assume that it is an output fileglob string. The output is the list of files that match the fileglob.

When \texttt{output_filename_or_reference} is a fileglob string, \texttt{input_filename_or_reference} must also be a fileglob string. Anything
else is an error.

See L<File::GlobMapper|File::GlobMapper> for more details.

=head2 Notes

If the C<$output_filename_or_reference> parameter is any other type, C<undef> will be returned.

=head2 Optional Parameters

Unless specified below, the optional parameters for C<bunzip2>, C<OPTS>, are the same as those used with the OO interface defined in the L</"Constructor Options"> section below.

=over 5

=item C<< AutoClose => 0|1 >>

This option applies to any input or output data streams to C<bunzip2> that are filehandles.

If C<AutoClose> is specified, and the value is true, it will result in all input and/or output filehandles being closed once C<bunzip2> has completed.

This parameter defaults to 0.

=item C<< BinModeOut => 0|1 >>

When writing to a file or filehandle, set C<binmode> before writing to the file.

Defaults to 0.

=item C<< Append => 0|1 >>

The behaviour of this option is dependent on the type of output data stream.
=over 5

=item * A Buffer

If C<Append> is enabled, all uncompressed data will be append to the end of
the output buffer. Otherwise the output buffer will be cleared before any
uncompressed data is written to it.

=item * A Filename

If C<Append> is enabled, the file will be opened in append mode. Otherwise
the contents of the file, if any, will be truncated before any uncompressed
data is written to it.

=item * A Filehandle

If C<Append> is enabled, the filehandle will be positioned to the end of
the file via a call to C<seek> before any uncompressed data is
written to it. Otherwise the file pointer will not be moved.

=back

When C<Append> is specified, and set to true, it will I<append> all uncompressed
data to the output data stream.

So when the output is a filehandle it will carry out a seek to the eof
before writing any uncompressed data. If the output is a filename, it will be opened for
appending. If the output is a buffer, all uncompressed data will be
appended to the existing buffer.

Conversely when C<Append> is not specified, or it is present and is set to
false, it will operate as follows.

When the output is a filename, it will truncate the contents of the file
before writing any uncompressed data. If the output is a filehandle
its position will not be changed. If the output is a buffer, it will be
wiped before any uncompressed data is output.

Defaults to 0.

=item C<< MultiStream => 0|1 >>

If the input file/buffer contains multiple compressed data streams, this
option will uncompress the whole lot as a single data stream.

Defaults to 0.

=item C<< TrailingData => $scalar >>
Returns the data, if any, that is present immediately after the compressed data stream once uncompression is complete.

This option can be used when there is useful information immediately following the compressed data stream, and you don't know the length of the compressed data stream.

If the input is a buffer, `C<trailingData>` will return everything from the end of the compressed data stream to the end of the buffer.

If the input is a filehandle, `C<trailingData>` will return the data that is left in the filehandle input buffer once the end of the compressed data stream has been reached. You can then use the filehandle to read the rest of the input file.

Don't bother using `C<trailingData>` if the input is a filename.

If you know the length of the compressed data stream before you start uncompressing, you can avoid having to use `C<trailingData>` by setting the `C<InputLength>` option.

=head2 Examples

To read the contents of the file `C<file1.txt.bz2>` and write the uncompressed data to the file `C<file1.txt>`.

```perl
use strict ;
use warnings ;
use IO::Uncompress::Bunzip2 qw(bunzip2 $Bunzip2Error) ;

my $input = "file1.txt.bz2";
my $output = "file1.txt";
bunzip2 $input => $output
    or die "bunzip2 failed: $Bunzip2Error\n";
```

To read from an existing Perl filehandle, `C<$input>`, and write the uncompressed data to a buffer, `C<$buffer>`.

```perl
use strict ;
use warnings ;
use IO::Uncompress::Bunzip2 qw(bunzip2 $Bunzip2Error) ;
use IO::File ;

my $input = new IO::File "<file1.txt.bz2"
    or die "Cannot open 'file1.txt.bz2': $!\n";
```
my $buffer;
bunzip2 $input => \$buffer
    or die "bunzip2 failed: $Bunzip2Error\n";

To uncompress all files in the directory "/my/home" that match "*.txt.bz2" and store the compressed data in the same directory

use strict;
use warnings;
use IO::Uncompress::Bunzip2 qw(bunzip2 $Bunzip2Error);
bunzip2 '</my/home/*.txt.bz2>' => '</my/home/#1.txt>'
    or die "bunzip2 failed: $Bunzip2Error\n";

and if you want to compress each file one at a time, this will do the trick

use strict;
use warnings;
use IO::Uncompress::Bunzip2 qw(bunzip2 $Bunzip2Error);

for my $input ( glob '/my/home/*.txt.bz2' )
{
    my $output = $input;
    $output =~ s/.bz2// ;
    bunzip2 $input => $output
        or die "Error compressing '$input': $Bunzip2Error\n";
}

=head1 OO Interface

=head2 Constructor

The format of the constructor for IO::Uncompress::Bunzip2 is shown below

my $z = new IO::Uncompress::Bunzip2 $input [OPTS]
    or die "IO::Uncompress::Bunzip2 failed: $Bunzip2Error\n";

Returns an C<IO::Uncompress::Bunzip2> object on success and undef on failure.
The variable C<$Bunzip2Error> will contain an error message on failure.
If you are running Perl 5.005 or better the object, C<$z>, returned from
IO::Uncompress::Bunzip2 can be used exactly like an L<IO::File|IO::File> filehandle.
This means that all normal input file operations can be carried out with
C<$z>. For example, to read a line from a compressed file/buffer you can
use either of these forms

    $line = $z->getline();
    $line = <$z>;
The mandatory parameter \$input is used to determine the source of the compressed data. This parameter can take one of three forms.

- A filename
- A filehandle
- A scalar reference

If the \$input parameter is a scalar, it is assumed to be a filename. This file will be opened for reading and the compressed data will be read from it.

If the \$input parameter is a filehandle, the compressed data will be read from it. The string '-' can be used as an alias for standard input.

If \$input is a scalar reference, the compressed data will be read from \$input.

Constructor Options

The option names defined below are case insensitive and can be optionally prefixed by a '-' . So all of the following are valid:

- AutoClose
- autoclose
- AUTOCLOSE
  autoclose

OPTS is a combination of the following options:

- AutoClose => 0|1

This option is only valid when the \$input parameter is a filehandle. If specified, and the value is true, it will result in the file being closed once either the close method is called or the IO::Uncompress::Bunzip2 object is destroyed.

This parameter defaults to 0.

- MultiStream => 0|1

This parameter defaults to 0.
Allows multiple concatenated compressed streams to be treated as a single compressed stream. Decompression will stop once either the end of the file/buffer is reached, an error is encountered (premature eof, corrupt compressed data) or the end of a stream is not immediately followed by the start of another stream.

This parameter defaults to 0.

=item C<< Prime => $string >>

This option will uncompress the contents of C<$string> before processing the input file/buffer.

This option can be useful when the compressed data is embedded in another file/data structure and it is not possible to work out where the compressed data begins without having to read the first few bytes. If this is the case, the uncompression can be I<primed> with these bytes using this option.

=item C<< Transparent => 0|1 >>

If this option is set and the input file/buffer is not compressed data, the module will allow reading of it anyway.

In addition, if the input file/buffer does contain compressed data and there is non-compressed data immediately following it, setting this option will make this module treat the whole file/buffer as a single data stream.

This option defaults to 1.

=item C<< BlockSize => $num >>

When reading the compressed input data, IO::Uncompress::Bunzip2 will read it in blocks of C<$num> bytes.

This option defaults to 4096.

=item C<< InputLength => $size >>

When present this option will limit the number of compressed bytes read from the input file/buffer to C<$size>. This option can be used in the situation where there is useful data directly after the compressed data stream and you know beforehand the exact length of the compressed data stream.

This option is mostly used when reading from a filehandle, in which case the file pointer will be left pointing to the first byte directly after the
compressed data stream.

This option defaults to off.

=item C<< Append => 0|1 >>

This option controls what the C<read> method does with uncompressed data.

If set to 1, all uncompressed data will be appended to the output parameter of the C<read> method.

If set to 0, the contents of the output parameter of the C<read> method will be overwritten by the uncompressed data.

Defaults to 0.

=item C<< Strict => 0|1 >>

This option is a no-op.

=item C<< Small => 0|1 >>

When non-zero this options will make bzip2 use a decompression algorithm that uses less memory at the expense of increasing the amount of time taken for decompression.

Default is 0.

=back

=head2 Examples

TODO

=head1 Methods

=head2 read

Usage is

$status = $z->read($buffer)

Reads a block of compressed data (the size of the compressed block is determined by the C<Buffer> option in the constructor), uncompresses it and writes any uncompressed data into C<$buffer>. If the C<Append> parameter is set in the constructor, the uncompressed data will be appended to the C<$buffer> parameter. Otherwise C<$buffer> will be overwritten.
Returns the number of uncompressed bytes written to \texttt{\$buffer}, zero if \texttt{eof} or a negative number on error.

=head2 \texttt{read}

Usage is

\begin{verbatim}
$\texttt{status} = \texttt{\$z->read(\$buffer, \$length)}
$\texttt{status} = \texttt{\$z->read(\$buffer, \$length, \$offset)}
$\texttt{status} = \texttt{read(\$z, \$buffer, \$length)}
$\texttt{status} = \texttt{read(\$z, \$buffer, \$length, \$offset)}
\end{verbatim}

Attempt to read \texttt{\$length} bytes of uncompressed data into \texttt{\$buffer}.

The main difference between this form of the \texttt{read} method and the previous one, is that this one will attempt to return \texttt{exactly} \texttt{\$length} bytes. The only circumstances that this function will not is if end-of-file or an IO error is encountered.

Returns the number of uncompressed bytes written to \texttt{\$buffer}, zero if \texttt{eof} or a negative number on error.

=head2 \texttt{getline}

Usage is

\begin{verbatim}
$\texttt{line} = \texttt{\$z->getline()}
$\texttt{line} = \texttt{\$z}
\end{verbatim}

Reads a single line.

This method fully supports the use of the variable \texttt{\$/} (or \texttt{\$INPUT_RECORD_SEPARATOR} or \texttt{\$RS} when \texttt{\$English} is in use) to determine what constitutes an end of line. Paragraph mode, record mode and file slurp mode are all supported.

=head2 \texttt{getc}

Usage is

\begin{verbatim}
$\texttt{char} = \texttt{\$z->getc()}
\end{verbatim}

Read a single character.

=head2 \texttt{ungetc}

Usage is
$char = $z->ungetc($string)

=head2 getHeaderInfo

Usage is

$hdr = $z->getHeaderInfo();
@hdrs = $z->getHeaderInfo();

This method returns either a hash reference (in scalar context) or a list
or hash references (in array context) that contains information about each
of the header fields in the compressed data stream(s).

=head2 tell

Usage is

$z->tell()
tell $z

Returns the uncompressed file offset.

=head2 eof

Usage is

$z->eof();
eof($z);

Returns true if the end of the compressed input stream has been reached.

=head2 seek

$z->seek($position, $whence);
seek($z, $position, $whence);

Provides a sub-set of the C<seek> functionality, with the restriction
that it is only legal to seek forward in the input file/buffer.
It is a fatal error to attempt to seek backward.

Note that the implementation of C<seek> in this module does not provide
true random access to a compressed file/buffer. It works by uncompressing
data from the current offset in the file/buffer until it reaches the
uncompressed offset specified in the parameters to C<seek>. For very small
files this may be acceptable behaviour. For large files it may cause an
unacceptable delay.
The C<$whence> parameter takes one the usual values, namely SEEK_SET, SEEK_CUR or SEEK_END.

Returns 1 on success, 0 on failure.

=head2 binmode

Usage is

$z->binmode
  binmode $z ;

This is a noop provided for completeness.

=head2 opened

$z->opened()

Returns true if the object currently refers to a opened file/buffer.

=head2 autoflush

my $prev = $z->autoflush()
my $prev = $z->autoflush(EXPR)

If the C<$z> object is associated with a file or a filehandle, this method returns the current autoflush setting for the underlying filehandle. If C<EXPR> is present, and is non-zero, it will enable flushing after every write/print operation.

If C<$z> is associated with a buffer, this method has no effect and always returns C<undef>.

B<Note> that the special variable C<$|> B<cannot> be used to set or retrieve the autoflush setting.

=head2 input_line_number

$z->input_line_number()
$z->input_line_number(EXPR)

Returns the current uncompressed line number. If C<EXPR> is present it has the effect of setting the line number. Note that setting the line number does not change the current position within the file/buffer being read.

The contents of C<$/> are used to determine what constitutes a line terminator.
=head2 fileno

$z->fileno()
fileno($z)

If the C<$z> object is associated with a file or a filehandle, C<fileno> will return the underlying file descriptor. Once the C<close> method is called C<fileno> will return C<undef>.

If the C<$z> object is associated with a buffer, this method will return C<undef>.

=head2 close

$z->close();
close $z;

Closes the output file/buffer.

For most versions of Perl this method will be automatically invoked if the IO::Uncompress::Bunzip2 object is destroyed (either explicitly or by the variable with the reference to the object going out of scope). The exceptions are Perl versions 5.005 through 5.00504 and 5.8.0. In these cases, the C<close> method will be called automatically, but not until global destruction of all live objects when the program is terminating.

Therefore, if you want your scripts to be able to run on all versions of Perl, you should call C<close> explicitly and not rely on automatic closing.

Returns true on success, otherwise 0.

If the C<AutoClose> option has been enabled when the IO::Uncompress::Bunzip2 object was created, and the object is associated with a file, the underlying file will also be closed.

=head2 nextStream

Usage is

my $status = $z->nextStream();

Skips to the next compressed data stream in the input file/buffer. If a new compressed data stream is found, the eof marker will be cleared and C<$> will be reset to 0.

Returns 1 if a new stream was found, 0 if none was found, and -1 if an
Usage is

   my $data = $z->trailingData();

Returns the data, if any, that is present immediately after the compressed data stream once uncompression is complete. It only makes sense to call this method once the end of the compressed data stream has been encountered.

This option can be used when there is useful information immediately following the compressed data stream, and you don't know the length of the compressed data stream.

If the input is a buffer, C<trailingData> will return everything from the end of the compressed data stream to the end of the buffer.

If the input is a filehandle, C<trailingData> will return the data that is left in the filehandle input buffer once the end of the compressed data stream has been reached. You can then use the filehandle to read the rest of the input file.

Don't bother using C<trailingData> if the input is a filename.

If you know the length of the compressed data stream before you start uncompressing, you can avoid having to use C<trailingData> by setting the C<InputLength> option in the constructor.

=head1 Importing

No symbolic constants are required by this IO::Uncompress::Bunzip2 at present.

=head1 EXAMPLES
=head2 Working with Net::FTP

See L<IO::Compress::FAQ/I:Compress::FAQ/'Compressed files and Net::FTP'>

=head1 SEE ALSO

L<Compress::Zlib>, L<IO::Compress::Gzip>, L<IO::Uncompress::Gunzip>, L<IO::Compress::Deflate>,
L<IO::Uncompress::Inflate>, L<IO::Compress::RawDeflate>, L<IO::Uncompress::RawInflate>,
L<IO::Compress::Bzip2>, L<IO::Compress::Lzma>, L<IO::Uncompress::UnLzma>, L<IO::Compress::Xz>,
L<IO::Uncompress::UnXz>, L<IO::Compress::Lzop>, L<IO::Uncompress::UnLzop>, L<IO::Compress::Lzf>,
L<IO::Uncompress::UnLzf>, L<IO::Uncompress::AnyInflate>, L<IO::Uncompress::AnyUncompress>,
L<IO::Compress::FAQ/I:Compress::FAQ>

L<File::GlobMapper/File::GlobMapper>, L<Archive::Zip|Archive::Zip>,
L<Archive::Tar|Archive::Tar>,
L<IO::Zlib|IO::Zlib>

The primary site for the bzip2 program is L<http://www.bzip.org>.

See the module L<Compress::Bzip2|Compress::Bzip2>

=head1 AUTHOR

This module was written by Paul Marquess, C<pmqs@cpan.org>.

=head1 MODIFICATION HISTORY

See the Changes file.

=head1 COPYRIGHT AND LICENSE

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=head1 NAME

IO::Uncompress::Base - Base Class for IO::Uncompress modules

=head1 SYNOPSIS
use IO::Uncompress::Base;

=head1 DESCRIPTION

This module is not intended for direct use in application code. Its sole purpose is to be sub-classed by IO::Uncompress modules.

=head1 SEE ALSO

L<Compress::Zlib>, L<IO::Compress::Gzip>, L<IO::Uncompress::Gunzip>, L<IO::Compress::Deflate>,
L<IO::Uncompress::Inflate>, L<IO::Compress::RawDeflate>, L<IO::Uncompress::RawInflate>,
L<IO::Compress::Bzip2>, L<IO::Uncompress::Bunzip2>, L<IO::Compress::Lzma>,
L<IO::Uncompress::UnLzma>, L<IO::Compress::Xz>, L<IO::Uncompress::UnXz>, L<IO::Compress::Lzop>,
L<IO::Uncompress::UnLzop>, L<IO::Compress::Lzf>, L<IO::Uncompress::UnLzf>,
L<IO::Uncompress::AnyInflate>, L<IO::Uncompress::AnyUncompress>
L<IO::Compress::FAQ|IO::Compress::FAQ>
L<File::GlobMapper|File::GlobMapper>, L<Archive::Zip|Archive::Zip>,
L<Archive::Tar|Archive::Tar>,
L<IO::Zlib|IO::Zlib>

=head1 AUTHOR

This module was written by Paul Marquess, C<pmqs@cpan.org>.

=head1 MODIFICATION HISTORY

See the Changes file.

=head1 COPYRIGHT AND LICENSE

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=head1 NAME

IO::Uncompress::Unzip - Read zip files/buffers
=head1 SYNOPSIS

use IO::Uncompress::Unzip qw(unzip $UnzipError);

my $status = unzip $input => $output [OPTS]
or die "unzip failed: $UnzipError\n";

my $z = new IO::Uncompress::Unzip $input [OPTS]
or die "unzip failed: $UnzipError\n";

$status = $z->read($buffer)
$status = $z->read($buffer, $length)
$status = $z->read($buffer, $length, $offset)
$line = $z->getline()
$char = $z->getc()
$char = $z->ungetc()
$char = $z->opened()

$status = $z->inflateSync()
$data = $z->trailingData()
$status = $z->nextStream()
$data = $z->getHeaderInfo()
$z->tell()
$z->seek($position, $whence)
$z->binmode()
$z->fileno()
$z->eof()
$z->close()

$UnzipError;

# IO::File mode

<$z>
read($z, $buffer);
read($z, $buffer, $length);
read($z, $buffer, $length, $offset);
tell($z)
seek($z, $position, $whence)
binmode($z)
fileno($z)
eof($z)
close($z)

=head1 DESCRIPTION

This module provides a Perl interface that allows the reading of
zlib files/buffers.

For writing zip files/buffers, see the companion module IO::Compress::Zip.

=head1 Functional Interface

A top-level function, C<unzip>, is provided to carry out
"one-shot" uncompression between buffers and/or files. For finer
control over the uncompression process, see the L</"OO Interface">
section.

use IO::Uncompress::Unzip qw(unzip $UnzipError) ;

    unzip $input_filename_or_reference => $output_filename_or_reference [,OPTS]
    or die "unzip failed: $UnzipError\n";

The functional interface needs Perl5.005 or better.

=head2 unzip $input_filename_or_reference => $output_filename_or_reference [, OPTS]

C<unzip> expects at least two parameters,
C<$input_filename_or_reference> and C<$output_filename_or_reference>.

=head3 The C<$input_filename_or_reference> parameter

The parameter, C<$input_filename_or_reference>, is used to define the
source of the compressed data.

It can take one of the following forms:

=over 5

=item A filename

If the <$input_filename_or_reference> parameter is a simple scalar, it is
assumed to be a filename. This file will be opened for reading and the
input data will be read from it.

=item A filehandle

If the C<$input_filename_or_reference> parameter is a filehandle, the input
data will be read from it. The string '-' can be used as an alias for
standard input.

=item A scalar reference

If C<$input_filename_or_reference> is a scalar reference, the input data
will be read from C<$$input_filename_or_reference>.
=item An array reference

If C<$input_filename_or_reference> is an array reference, each element in the array must be a filename.

The input data will be read from each file in turn.

The complete array will be walked to ensure that it only contains valid filenames before any data is uncompressed.

=back

=item An Input FileGlob string

If C<$input_filename_or_reference> is a string that is delimited by the characters "<" and ">" C<unzip> will assume that it is an input fileglob string. The input is the list of files that match the fileglob.

See L<File::GlobMapper|File::GlobMapper> for more details.

=back

If the C<$input_filename_or_reference> parameter is any other type, C<undef> will be returned.

=head3 The C<$output_filename_or_reference> parameter

The parameter C<$output_filename_or_reference> is used to control the destination of the uncompressed data. This parameter can take one of these forms.

=over 5

=item A filename

If the C<$output_filename_or_reference> parameter is a simple scalar, it is assumed to be a filename. This file will be opened for writing and the uncompressed data will be written to it.

=item A filehandle

If the C<$output_filename_or_reference> parameter is a filehandle, the uncompressed data will be written to it. The string '-' can be used as an alias for standard output.

=item A scalar reference

If C<$output_filename_or_reference> is a scalar reference, the
uncompressed data will be stored in C<$output_filename_or_reference>.

=item An Array Reference

If C<$output_filename_or_reference> is an array reference, the uncompressed data will be pushed onto the array.

=item An Output FileGlob

If C<$output_filename_or_reference> is a string that is delimited by the characters "<" and ">" C<unzip> will assume that it is an I<output fileglob string>. The output is the list of files that match the fileglob.

When C<$output_filename_or_reference> is a fileglob string, C<$input_filename_or_reference> must also be a fileglob string. Anything else is an error.

See L<File::GlobMapper|File::GlobMapper> for more details.

=back

If the C<$output_filename_or_reference> parameter is any other type, C<undef> will be returned.

=head2 Notes

When C<$input_filename_or_reference> maps to multiple compressed files/buffers and C<$output_filename_or_reference> is a single file/buffer, after uncompression C<$output_filename_or_reference> will contain a concatenation of all the uncompressed data from each of the input files/buffers.

=head2 Optional Parameters

Unless specified below, the optional parameters for C<unzip>, C<OPTS>, are the same as those used with the OO interface defined in the L</"Constructor Options"> section below.

=over 5

=item C<< AutoClose => 0|1 >>

This option applies to any input or output data streams to C<unzip> that are filehandles.

If C<AutoClose> is specified, and the value is true, it will result in all input and/or output filehandles being closed once C<unzip> has
completed.

This parameter defaults to 0.

=item C<< BinModeOut => 0|1 >>

When writing to a file or filehandle, set C<binmode> before writing to the file.

Defaults to 0.

=item C<< Append => 0|1 >>

The behaviour of this option is dependent on the type of output data stream.

=over 5

=item * A Buffer

If C<Append> is enabled, all uncompressed data will be append to the end of the output buffer. Otherwise the output buffer will be cleared before any uncompressed data is written to it.

=item * A Filename

If C<Append> is enabled, the file will be opened in append mode. Otherwise the contents of the file, if any, will be truncated before any uncompressed data is written to it.

=item * A Filehandle

If C<Append> is enabled, the filehandle will be positioned to the end of the file via a call to C<seek> before any uncompressed data is written to it. Otherwise the file pointer will not be moved.

=back

When C<Append> is specified, and set to true, it will I<append> all uncompressed data to the output data stream.

So when the output is a filehandle it will carry out a seek to the eof before writing any uncompressed data. If the output is a filename, it will be opened for appending. If the output is a buffer, all uncompressed data will be appended to the existing buffer.

Conversely when C<Append> is not specified, or it is present and is set to false, it will operate as follows.
When the output is a filename, it will truncate the contents of the file before writing any uncompressed data. If the output is a filehandle its position will not be changed. If the output is a buffer, it will be wiped before any uncompressed data is output.

Defaults to 0.

=item C<< MultiStream => 0|1 >>

If the input file/buffer contains multiple compressed data streams, this option will uncompress the whole lot as a single data stream.

Defaults to 0.

=item C<< TrailingData => $scalar >>

Returns the data, if any, that is present immediately after the compressed data stream once uncompression is complete.

This option can be used when there is useful information immediately following the compressed data stream, and you don't know the length of the compressed data stream.

If the input is a buffer, C<trailingData> will return everything from the end of the compressed data stream to the end of the buffer.

If the input is a filehandle, C<trailingData> will return the data that is left in the filehandle input buffer once the end of the compressed data stream has been reached. You can then use the filehandle to read the rest of the input file.

Don't bother using C<trailingData> if the input is a filename.

If you know the length of the compressed data stream before you start uncompressing, you can avoid having to use C<trailingData> by setting the C<InputLength> option.

=back

=head2 Examples

Say you have a zip file, C<file1.zip>, that only contains a single member, you can read it and write the uncompressed data to the file C<file1.txt> like this.

use strict ;
use warnings ;
use IO::Uncompress::Unzip qw(unzip $UnzipError) ;

my $input = "file1.zip";
my $output = "file1.txt";
unzip $input => $output
  or die "unzip failed: $UnzipError\n";

If you have a zip file that contains multiple members and want to read a
specific member from the file, say C<"data1">, use the C<Name> option

use strict ;
use warnings ;
use IO::Uncompress::Unzip qw(unzip $UnzipError) ;

my $input = "file1.zip";
my $output = "file1.txt";
unzip $input => $output, Name => "data1"
  or die "unzip failed: $UnzipError\n";

Alternatively, if you want to read the C<"data1"> member into memory, use
a scalar reference for the C<output> parameter.

use strict ;
use warnings ;
use IO::Uncompress::Unzip qw(unzip $UnzipError) ;

my $input = "file1.zip";
my $output ;
unzip $input => \$output, Name => "data1"
  or die "unzip failed: $UnzipError\n";
# $output now contains the uncompressed data

To read from an existing Perl filehandle, C<$input>, and write the
uncompressed data to a buffer, C<$buffer>.

use strict ;
use warnings ;
use IO::Uncompress::Unzip qw(unzip $UnzipError) ;
use IO::File ;

my $input = new IO::File "<file1.zip"
  or die "Cannot open 'file1.zip': $\n" ;
my $buffer ;
unzip $input => \$buffer
  or die "unzip failed: $UnzipError\n";

=head1 OO Interface
Constructor

The format of the constructor for IO::Uncompress::Unzip is shown below

```perl
my $z = new IO::Uncompress::Unzip $input [OPTS]
  or die "IO::Uncompress::Unzip failed: $UnzipError\n";
```

Returns an C<IO::Uncompress::Unzip> object on success and undef on failure. The variable C<$UnzipError> will contain an error message on failure.

If you are running Perl 5.005 or better the object, C<$z>, returned from IO::Uncompress::Unzip can be used exactly like an L<IO::File|IO::File> filehandle. This means that all normal input file operations can be carried out with C<$z>. For example, to read a line from a compressed file/buffer you can use either of these forms

```perl
$line = $z->getline();
$line = <$z>;
```

The mandatory parameter C<$input> is used to determine the source of the compressed data. This parameter can take one of three forms.

=over 5

=item A filename

If the C<$input> parameter is a scalar, it is assumed to be a filename. This file will be opened for reading and the compressed data will be read from it.

=item A filehandle

If the C<$input> parameter is a filehandle, the compressed data will be read from it. The string '-' can be used as an alias for standard input.

=item A scalar reference

If C<$input> is a scalar reference, the compressed data will be read from C<$$input>.

=back

=head2 Constructor Options

The option names defined below are case insensitive and can be optionally prefixed by a '-'. So all of the following are valid

- AutoClose
OPTS is a combination of the following options:

=over 5

=item C<< Name => "membername" >>

Open "membername" from the zip file for reading.

=item C<< AutoClose => 0|1 >>

This option is only valid when the C<$input> parameter is a filehandle. If specified, and the value is true, it will result in the file being closed once either the C<close> method is called or the IO::Uncompress::Unzip object is destroyed.

This parameter defaults to 0.

=item C<< MultiStream => 0|1 >>

Treats the complete zip file/buffer as a single compressed data stream. When reading in multi-stream mode each member of the zip file/buffer will be uncompressed in turn until the end of the file/buffer is encountered.

This parameter defaults to 0.

=item C<< Prime => $string >>

This option will uncompress the contents of C<$string> before processing the input file/buffer.

This option can be useful when the compressed data is embedded in another file/data structure and it is not possible to work out where the compressed data begins without having to read the first few bytes. If this is the case, the uncompression can be I<primed> with these bytes using this option.

=item C<< Transparent => 0|1 >>

If this option is set and the input file/buffer is not compressed data, the module will allow reading of it anyway.

In addition, if the input file/buffer does contain compressed data and there is non-compressed data immediately following it, setting this option
will make this module treat the whole file/buffer as a single data stream.

This option defaults to 1.

=item C<< BlockSize => $num >>

When reading the compressed input data, IO::Uncompress::Unzip will read it in blocks of C<$num> bytes.

This option defaults to 4096.

=item C<< InputLength => $size >>

When present this option will limit the number of compressed bytes read from the input file/buffer to C<$size>. This option can be used in the situation where there is useful data directly after the compressed data stream and you know beforehand the exact length of the compressed data stream.

This option is mostly used when reading from a filehandle, in which case the file pointer will be left pointing to the first byte directly after the compressed data stream.

This option defaults to off.

=item C<< Append => 0|1 >>

This option controls what the C<read> method does with uncompressed data.

If set to 1, all uncompressed data will be appended to the output parameter of the C<read> method.

If set to 0, the contents of the output parameter of the C<read> method will be overwritten by the uncompressed data.

Defaults to 0.

=item C<< Strict => 0|1 >>

This option controls whether the extra checks defined below are used when carrying out the decompression. When Strict is on, the extra tests are carried out, when Strict is off they are not.

The default for this option is off.

=back

=head2 Examples
TODO

=head1 Methods

=head2 read

Usage is

$status = $z->read($buffer)

Reads a block of compressed data (the size of the compressed block is determined by the C<Buffer> option in the constructor), uncompresses it and writes any uncompressed data into C<$buffer>. If the C<Append> parameter is set in the constructor, the uncompressed data will be appended to the C<$buffer> parameter. Otherwise C<$buffer> will be overwritten.

Returns the number of uncompressed bytes written to C<$buffer>, zero if eof or a negative number on error.

=head2 read

Usage is

$status = $z->read($buffer, $length)
$status = $z->read($buffer, $length, $offset)

$status = read($z, $buffer, $length)
$status = read($z, $buffer, $length, $offset)

Attempt to read C<$length> bytes of uncompressed data into C<$buffer>.

The main difference between this form of the C<read> method and the previous one, is that this one will attempt to return I<exactly> C<$length> bytes. The only circumstances that this function will not is if end-of-file or an IO error is encountered.

Returns the number of uncompressed bytes written to C<$buffer>, zero if eof or a negative number on error.

=head2 getline

Usage is

$line = $z->getline()
$line = <$z>

Reads a single line.
This method fully supports the use of the variable C<$/> (or C<$INPUT_RECORD_SEPARATOR> or C<$RS> when C<English> is in use) to determine what constitutes an end of line. Paragraph mode, record mode and file slurp mode are all supported.

=head2 getc

Usage is

$char = $z->getc()

Read a single character.

=head2 ungetc

Usage is

$char = $z->ungetc($string)

=head2 inflateSync

Usage is

$status = $z->inflateSync()

TODO

=head2 getHeaderInfo

Usage is

$hdr = $z->getHeaderInfo();
@hdrs = $z->getHeaderInfo();

This method returns either a hash reference (in scalar context) or a list or hash references (in array context) that contains information about each of the header fields in the compressed data stream(s).

=head2 tell

Usage is

$z->tell()

tell $z

Returns the uncompressed file offset.
Usage is

```
$z->eof();
eof($z);
```

Returns true if the end of the compressed input stream has been reached.

Usage is

```
$z->seek($position, $whence);
seek($z, $position, $whence);
```

Provides a sub-set of the C<seek> functionality, with the restriction that it is only legal to seek forward in the input file/buffer. It is a fatal error to attempt to seek backward.

Note that the implementation of C<seek> in this module does not provide true random access to a compressed file/buffer. It works by uncompressing data from the current offset in the file/buffer until it reaches the uncompressed offset specified in the parameters to C<seek>. For very small files this may be acceptable behaviour. For large files it may cause an unacceptable delay.

The C<$whence> parameter takes one the usual values, namely SEEK_SET, SEEK_CUR or SEEK_END.

Returns 1 on success, 0 on failure.

Usage is

```
$z->binmode
binmode $z;
```

This is a noop provided for completeness.

Usage is

```
$z->opened()
```

Returns true if the object currently refers to a opened file/buffer.

Usage is

```
my $prev = $z->autoflush()
```
my $prev = $z->autoflush(EXPR)

If the C<$z> object is associated with a file or a filehandle, this method returns the current autoflush setting for the underlying filehandle. If C<EXPR> is present, and is non-zero, it will enable flushing after every write/print operation.

If C<$z> is associated with a buffer, this method has no effect and always returns C<undef>.

B<Note> that the special variable C<$|> B<cannot> be used to set or retrieve the autoflush setting.

=head2 input_line_number

$z->input_line_number()
$z->input_line_number(EXPR)

Returns the current uncompressed line number. If C<EXPR> is present it has the effect of setting the line number. Note that setting the line number does not change the current position within the file/buffer being read.

The contents of C<$/> are used to determine what constitutes a line terminator.

=head2 fileno

$z->fileno()
fileno($z)

If the C<$z> object is associated with a file or a filehandle, C<fileno> will return the underlying file descriptor. Once the C<close> method is called C<fileno> will return C<undef>.

If the C<$z> object is associated with a buffer, this method will return C<undef>.

=head2 close

$z->close()
close $z;

Closes the output file/buffer.

For most versions of Perl this method will be automatically invoked if the IO::Uncompress::Unzip object is destroyed (either explicitly or by the variable with the reference to the object going out of scope). The exceptions are Perl versions 5.005 through 5.00504 and 5.8.0. In
these cases, the \texttt{C\textasciicircum{close}} method will be called automatically, but not until global destruction of all live objects when the program is terminating.

Therefore, if you want your scripts to be able to run on all versions of Perl, you should call \texttt{C\textasciicircum{close}} explicitly and not rely on automatic closing.

Returns true on success, otherwise 0.

If the \texttt{C\textasciicircum{AutoClose}} option has been enabled when the \texttt{IO::Uncompress::Unzip} object was created, and the object is associated with a file, the underlying file will also be closed.

=head2 nextStream

Usage is

\begin{verbatim}
my $status = $z->nextStream();
\end{verbatim}

Skips to the next compressed data stream in the input file/buffer. If a new compressed data stream is found, the eof marker will be cleared and \texttt{C\$->} will be reset to 0.

Returns 1 if a new stream was found, 0 if none was found, and -1 if an error was encountered.

=head2 trailingData

Usage is

\begin{verbatim}
my $data = $z->trailingData();
\end{verbatim}

Returns the data, if any, that is present immediately after the compressed data stream once uncompression is complete. It only makes sense to call this method once the end of the compressed data stream has been encountered.

This option can be used when there is useful information immediately following the compressed data stream, and you don't know the length of the compressed data stream.

If the input is a buffer, \texttt{C\textasciicircum{trailingData}} will return everything from the end of the compressed data stream to the end of the buffer.

If the input is a filehandle, \texttt{C\textasciicircum{trailingData}} will return the data that is left in the filehandle input buffer once the end of the compressed data stream has been reached. You can then use the filehandle to read the rest
of the input file.

Don't bother using C<trailingData> if the input is a filename.

If you know the length of the compressed data stream before you start
uncompressing, you can avoid having to use C<trailingData> by setting the
C<InputLength> option in the constructor.

=head1 Importing

No symbolic constants are required by this IO::Uncompress::Unzip at present.

=head2 EXAMPLES

=head2 Working with Net::FTP

See L<IO::Compress::FAQ|IO::Compress::FAQ/"Compressed files and Net::FTP">

=head2 Walking through a zip file

The code below can be used to traverse a zip file, one compressed data
stream at a time.

use IO::Uncompress::Unzip qw($UnzipError);

my $zipfile = "somefile.zip";
my $u = new IO::Uncompress::Unzip $zipfile
    or die "Cannot open $zipfile: $UnzipError";

my $status;
for ($status = 1; $status > 0; $status = $u->nextStream())
{
    my $name = $u->getHeaderInfo()->{Name};
    warn "Processing member $name\n";
    my $buff;
while (($status = $u->read($buff)) > 0) {
    # Do something here
}

last if $status < 0;
}

die "Error processing $zipfile: $!
" if $status < 0;

Each individual compressed data stream is read until the logical end-of-file is reached. Then C<nextStream> is called. This will skip to the start of the next compressed data stream and clear the end-of-file flag.

It is also worth noting that C<nextStream> can be called at any time -- you don't have to wait until you have exhausted a compressed data stream before skipping to the next one.

=head2 Unzipping a complete zip file to disk

Daniel S. Sterling has written a script that uses C<IO::Uncompress::UnZip> to read a zip file and unzip its contents to disk.

The script is available from L<https://gist.github.com/eqhmcow/5389877>

=head1 SEE ALSO

L<Compress::Zlib>, L<IO::Compress::Gzip>, L<IO::Uncompress::Gunzip>, L<IO::Compress::Deflate>,
L<IO::Uncompress::Inflate>, L<IO::Compress::RawDeflate>, L<IO::Uncompress::RawInflate>,
L<IO::Compress::Bzip2>, L<IO::Uncompress::Bunzip2>, L<IO::Compress::Lzma>,
L<IO::Uncompress::UnLzma>, L<IO::Compress::Xz>, L<IO::Uncompress::UnXz>, L<IO::Compress::Lzop>,
L<IO::Uncompress::UnLzop>, L<IO::Compress::Lzf>, L<IO::Uncompress::UnLzf>,
L<IO::Uncompress::AnyInflate>, L<IO::Uncompress::AnyUncompress>

L<IO::Compress::FAQ|IO::Compress::FAQ>

L<File::GlobMapper|File::GlobMapper>, L<Archive::Zip|Archive::Zip>,
L<Archive::Tar|Archive::Tar>,
L<IO::Zlib|IO::Zlib>

For RFC 1950, 1951 and 1952 see
L<http://www.faqs.org/rfcs/rfc1950.html>,
L<http://www.faqs.org/rfcs/rfc1951.html> and

The I<zlib> compression library was written by Jean-loup Gailly
C<gzip@prep.ai.mit.edu> and Mark Adler C<madler@alumni.caltech.edu>.
The primary site for the I<zlib> compression library is L<http://www.zlib.org>.

The primary site for gzip is L<http://www.gzip.org>.

=head1 AUTHOR

This module was written by Paul Marquess, C<pmqs@cpan.org>.

=head1 MODIFICATION HISTORY

See the Changes file.

=head1 COPYRIGHT AND LICENSE

Copyright (c) 2005-2018 Paul Marquess. 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.

=head1 NAME

IO::Compress::FAQ -- Frequently Asked Questions about IO::Compress

=head1 DESCRIPTION

Common questions answered.

=head1 GENERAL

=head2 Compatibility with Unix compress/uncompress.

Although C<Compress::Zlib> has a pair of functions called C<compress> and C<uncompress>, they are I<not> related to the Unix programs of the same name. The C<Compress::Zlib> module is not compatible with Unix C<compress>.

If you have the C<uncompress> program available, you can use this to read compressed files

    open F, "uncompress -c $filename |";
    while (<F>)

Alternatively, if you have the C<gunzip> program available, you can use this to read compressed files:

```
open F, "gunzip -c $filename ";
while (<F>)
{
...
}
```

and this to write compressed files, if you have the C<compress> program available:

```
open F, "| compress -c $filename ";
print F "data";
...
close F;
```

=head2 Accessing .tar.Z files

The C<Archive::Tar> module can optionally use C<Compress::Zlib> (via the C<IO::Zlib> module) to access tar files that have been compressed with C<gzip>. Unfortunately, tar files compressed with the Unix C<compress> utility cannot be read by C<Compress::Zlib> and so cannot be directly accessed by C<Archive::Tar>.

If the C<uncompress> or C<gunzip> programs are available, you can use one of these workarounds to read C<.tar.Z> files from C<Archive::Tar>.

Firstly with C<uncompress>:

```
use strict;
use warnings;
use Archive::Tar;

open F, "uncompress -c $filename ";
my $tar = Archive::Tar->new(*F);
...
```

and this with C<gunzip>:

```
use strict;
use warnings;
use Archive::Tar;

open F, "gunzip -c $filename ";
my $tar = Archive::Tar->new(*F);
```
Similarly, if the `compress` program is available, you can use this to write a `tar.Z` file

```perl
use strict;
use warnings;
use Archive::Tar;
use IO::File;

my $fh = new IO::File "| compress -c >$filename";
my $tar = Archive::Tar->new();
...
$tar->write($fh);
$fh->close;
```

=head2 How do I recompress using a different compression?

This is easier than you might expect if you realize that all the `IO::Compress::*` objects are derived from `IO::File` and that all the `IO::Uncompress::*` modules can read from an `IO::File` filehandle.

So, for example, say you have a file compressed with gzip that you want to recompress with bzip2. Here is all that is needed to carry out the recompression.

```perl
use IO::Uncompress::Gunzip ':all';
use IO::Compress::Bzip2 ':all';

my $gzipFile = "somefile.gz";
my $bzipFile = "somefile.bz2";

my $gunzip = new IO::Uncompress::Gunzip $gzipFile
   or die "Cannot gunzip $gzipFile: $GunzipError\n";
bzip2 $gunzip => $bzipFile
   or die "Cannot bzip2 to $bzipFile: $Bzip2Error\n";
```

Note, there is a limitation of this technique. Some compression file formats store extra information along with the compressed data payload. For example, gzip can optionally store the original filename and Zip stores a lot of information about the original file. If the original compressed file contains any of this extra information, it will not be transferred to the new compressed file using the technique above.

=head1 ZIP

=head2 What Compression Types do IO::Compress::Zip & IO::Uncompress::Unzip support?
The following compression formats are supported by C<IO::Compress::Zip> and C<IO::Uncompress::Unzip>:

=item * Store (method 0)

No compression at all.

=item * Deflate (method 8)

This is the default compression used when creating a zip file with C<IO::Compress::Zip>.

=item * Bzip2 (method 12)

Only supported if the C<IO-Compress-Bzip2> module is installed.

=item * Lzma (method 14)

Only supported if the C<IO-Compress-Lzma> module is installed.

Can I Read/Write Zip files larger the 4 Gig?

Yes, both the C<IO-Compress-Zip> and C<IO-Uncompress-Unzip> modules support the zip feature called I<Zip64>. That allows them to read/write files/buffers larger than 4Gig.

If you are creating a Zip file using the one-shot interface, and any of the input files is greater than 4Gig, a zip64 complaint zip file will be created.

    zip "really-large-file" => "my.zip";

Similarly with the one-shot interface, if the input is a buffer larger than 4 Gig, a zip64 complaint zip file will be created.

    zip \\really_large_buffer => "my.zip";

The one-shot interface allows you to force the creation of a zip64 zip file by including the C<Zip64> option.

    zip $filehandle => "my.zip", Zip64 => 1;

If you want to create a zip64 zip file with the OO interface you must...
specify the C<Zip64> option.

    my $zip = new IO::Compress::Zip "whatever", Zip64 => 1;

When uncompressing with C<IO-Uncompress-Unzip>, it will automatically
detect if the zip file is zip64.

If you intend to manipulate the Zip64 zip files created with
C<IO-Compress-Zip> using an external zip/unzip, make sure that it supports
Zip64.

In particular, if you are using Info-Zip you need to have zip version 3.x
or better to update a Zip64 archive and unzip version 6.x to read a zip64
archive.

=head2 Can I write more that 64K entries is a Zip files?

Yes. Zip64 allows this. See previous question.

=head2 Zip Resources

The primary reference for zip files is the "appnote" document available at

An alternatively is the Info-Zip appnote. This is available from

=head1 GZIP

=head2 Gzip Resources

The primary reference for gzip files is RFC 1952

The primary site for gzip is L<http://www.gzip.org>.

=head2 Dealing with concatenated gzip files

If the gunzip program encounters a file containing multiple gzip files
concatenated together it will automatically uncompress them all.
The example below illustrates this behaviour

    $ echo abc | gzip -c >x.gz
    $ echo def | gzip -c >>x.gz
    $ gunzip -c x.gz
    abc
def
By default `IO::Uncompress::Gunzip` will not behave like the gunzip program. It will only uncompress the first gzip data stream in the file, as shown below

```perl
$ perl -MIO::Uncompress::Gunzip=:all -e 'gunzip "x.gz" => \
  *STDOUT'
abc
```

To force `IO::Uncompress::Gunzip` to uncompress all the gzip data streams, include the `MultiStream` option, as shown below

```perl
$ perl -MIO::Uncompress::Gunzip=:all -e 'gunzip "x.gz" => \
  *STDOUT, MultiStream => 1'
abc
def
```

=head2 Reading bgzip files with `IO::Uncompress::Gunzip`

A `bgzip` file consists of a series of valid gzip-compliant data streams concatenated together. To read a file created by `bgzip` with `IO::Uncompress::Gunzip` use the `MultiStream` option as shown in the previous section.


=head1 ZLIB

=head2 Zlib Resources

The primary site for the `zlib` compression library is [http://www.zlib.org](http://www.zlib.org).

=head1 Bzip2

=head2 Bzip2 Resources

The primary site for bzip2 is [http://www.bzip.org](http://www.bzip.org).

=head2 Dealing with Concatenated bzip2 files

If the bunzip2 program encounters a file containing multiple bzip2 files concatenated together it will automatically uncompress them all. The example below illustrates this behaviour

```bash
$ echo abc | bzip2 -c >x.bz2
$ echo def | bzip2 -c >>x.bz2
$ bunzip2 -c x.bz2
abc
```
def

By default C<IO::Uncompress::Bunzip2> will not behave like the bunzip2 program. It will only uncompress the first bunzip2 data stream in the file, as shown below

```perl
$ perl -MIO::Uncompress::Bunzip2=:all -e 'bunzip2 "x.bz2" => \*STDOUT'
abc
```

To force C<IO::Uncompress::Bunzip2> to uncompress all the bzip2 data streams, include the C<MultiStream> option, as shown below

```perl
$ perl -MIO::Uncompress::Bunzip2=:all -e 'bunzip2 "x.bz2" => \*STDOUT, MultiStream => 1'
abc
def
```

=head2 Interoperating with Pbzip2

Pbzip2 (L<http://compression.ca/pbzip2/>) is a parallel implementation of bzip2. The output from pbzip2 consists of a series of concatenated bzip2 data streams.

By default C<IO::Uncompress::Bzip2> will only uncompress the first bzip2 data stream in a pbzip2 file. To uncompress the complete pbzip2 file you must include the C<MultiStream> option, like this.

```perl
bunzip2 $input => \$output, MultiStream => 1
or die "bunzip2 failed: $Bunzip2Error\n"
```

=head1 HTTP & NETWORK

=head2 Apache::GZip Revisited

Below is a mod_perl Apache compression module, called C<Apache::GZip>, taken from L<http://perl.apache.org/docs/tutorials/tips/mod_perl_tricks/mod_perl_tricks.html#On_the_Fly_Compression>

```perl
package Apache::GZip;
#File: Apache::GZip.pm

use strict vars;
use Apache::Constants ':common';
use Compress::Zlib;
use IO::File;
use constant GZIP_MAGIC => 0x1f8b;
use constant OS_MAGIC => 0x03;

sub handler {
```
my $r = shift;
my ($fh,$gz);
my $file = $r->filename;
return DECLINED unless $fh=IO::File->new($file);
$r->header_out('Content-Encoding' => 'gzip');
$r->send_http_header;
return OK if $r->header_only;

tie *STDOUT,'Apache::GZip',$r;
print($_) while <$fh>;
untie *STDOUT;
return OK;
}

sub TIEHANDLE {
    my($class,$r) = @_; # initialize a deflation stream
    my $d = deflateInit(-WindowBits => MAX_WBITS()) || return undef;
    my $magic = pack("nccVcc",GZIP_MAGIC,Z_DEFLATED,0,time(),0,OS_MAGIC));

    return bless { r   => $r,
            crc => crc32(undef),
            d   => $d,
            l   =>  0
        },$class;
}

sub PRINT {
    my $self = shift;
    foreach (@_) {
        # deflate the data
        my $data = $self->{d}->deflate($_);
        $self->{r}->print($data);
        # keep track of its length and crc
        $self->{l} += length($_);
        $self->{crc} = crc32($_,$self->{crc});
    }
}

sub DESTROY {
    my $self = shift;
    my $data = $self->flush;
    my $data = $self>({d})->flush;
    $self->{r}->print($data);
Here's the Apache configuration entry you'll need to make use of it. Once set it will result in everything in the /compressed directory will be compressed automagically.

```
<Location /compressed>
  SetHandler perl-script
  PerlHandler Apache::GZip
</Location>
```

Although at first sight there seems to be quite a lot going on in C<Apache::GZip>, you could sum up what the code was doing as follows -- read the contents of the file in C<< $r->filename >>, compress it and write the compressed data to standard output. That's all.

This code has to jump through a few hoops to achieve this because

=over

=item 1.

The gzip support in C<Compress::Zlib> version 1.x can only work with a real filesystem filehandle. The filehandles used by Apache modules are not associated with the filesystem.

=item 2.

That means all the gzip support has to be done by hand - in this case by creating a tied filehandle to deal with creating the gzip header and trailer.

=back

C<IO::Compress::Gzip> doesn't have that filehandle limitation (this was one of the reasons for writing it in the first place). So if C<IO::Compress::Gzip> is used instead of C<Compress::Zlib> the whole tied filehandle code can be removed. Here is the rewritten code.

```perl
package Apache::GZip;

use strict vars;
use Apache::Constants ':common';
use IO::Compress::Gzip;
```
use IO::File;

sub handler {
    my $r = shift;
    my ($fh,$gz);
    my $file = $r->filename;
    return DECLINED unless $fh=IO::File->new($file);
    $r->header_out('Content-Encoding'=>'gzip');
    $r->send_http_header;
    return OK if $r->header_only;

    my $gz = new IO::Compress::Gzip '-', Minimal => 1
        or return DECLINED;

    print $gz $_ while <$fh>;

    return OK;
}

or even more succinctly, like this, using a one-shot gzip

package Apache::GZip;

use strict vars;
use Apache::Constants ':common';
use IO::Compress::Gzip qw(gzip);

sub handler {
    my $r = shift;
    $r->header_out('Content-Encoding'=>'gzip');
    $r->send_http_header;
    return OK if $r->header_only;

    gzip $r->filename => '-', Minimal => 1
        or return DECLINED;

    return OK;
}

1;

The use of one-shot C<gzip> above just reads from C<< $r->filename >> and
writes the compressed data to standard output.

Note the use of the C<Minimal> option in the code above. When using gzip
for Content-Encoding you should I<always> use this option. In the example
above it will prevent the filename being included in the gzip header and
make the size of the gzip data stream a slight bit smaller.
Compressed files and Net::FTP

The C<Net::FTP> module provides two low-level methods called C<stor> and C<retr> that both return filehandles. These filehandles can used with the C<IO::Compress/Uncompress> modules to compress or uncompress files read from or written to an FTP Server on the fly, without having to create a temporary file.

Firstly, here is code that uses C<retr> to uncompressed a file as it is read from the FTP Server.

```perl
use Net::FTP;
use IO::Uncompress::Gunzip qw(:all);

my $ftp = new Net::FTP ...

my $retr_fh = $ftp->retr($compressed_filename);
gunzip $retr_fh => $outFilename, AutoClose => 1
    or die "Cannot uncompress '$compressed_file': $GunzipError\n";
```

and this to compress a file as it is written to the FTP Server

```perl
use Net::FTP;
use IO::Compress::Gzip qw(:all);

my $stor_fh = $ftp->stor($filename);
gzip "filename" => $stor_fh, AutoClose => 1
    or die "Cannot compress '$filename': $GzipError\n";
```

Using C<InputLength> to uncompress data embedded in a larger file/buffer.

A fairly common use-case is where compressed data is embedded in a larger file/buffer and you want to read both.

As an example consider the structure of a zip file. This is a well-defined file format that mixes both compressed and uncompressed sections of data in a single file.

For the purposes of this discussion you can think of a zip file as sequence of compressed data streams, each of which is prefixed by an uncompressed local header. The local header contains information about the compressed data stream, including the name of the compressed file and, in particular, the length of the compressed data stream.

To illustrate how to use C<InputLength> here is a script that walks a zip
file and prints out how many lines are in each compressed file (if you intend write code to walking through a zip file for real see L<IO::Uncompress::Unzip/"Walking through a zip file"> ). Also, although this example uses the zlib-based compression, the technique can be used by the other C<IO::Uncompress::*> modules.

    use strict;
    use warnings;
    use IO::File;
    use IO::Uncompress::RawInflate qw(:all);

    use constant ZIP_LOCAL_HDR_SIG        => 0x04034b50;
    use constant ZIP_LOCAL_HDR_LENGTH     => 30;

    my $file = $ARGV[0];

    my $fh = new IO::File "<$file"
        or die "Cannot open '$file': $!
    ;

    while (1)
    {
        my $sig;
        my $buffer;
        my $x ;
        ($x = $fh->read($buffer, ZIP_LOCAL_HDR_LENGTH)) == ZIP_LOCAL_HDR_LENGTH
            or die "Truncated file: $!
        ;

        my $signature = unpack ("V", substr($buffer, 0, 4));
        last unless $signature == ZIP_LOCAL_HDR_SIG;

        # Read Local Header
        my $gpFlag       = unpack ("v", substr($buffer, 6, 2));
        my $compressedMethod = unpack ("v", substr($buffer, 8, 2));
        my $compressedLength = unpack ("V", substr($buffer, 18, 4));
        my $uncompressedLength = unpack ("V", substr($buffer, 22, 4));
        my $filename_length    = unpack ("v", substr($buffer, 26, 2));
        my $extra_length       = unpack ("v", substr($buffer, 28, 2));

        my $filename ;
        $fh->read($filename, $filename_length) == $filename_length
            or die "Truncated file\n        ;

        $fh->read($buffer, $extra_length) == $extra_length
            or die "Truncated file\n        ;
if ($compressedMethod != 8 && $compressedMethod != 0)
{
    warn "Skipping file '$filename' - not deflated $compressedMethod\n";
    $fh->read($buffer, $compressedLength) == $compressedLength
    or die "Truncated file\n";
    next;
}

if ($compressedMethod == 0 && $gpFlag & 8 == 8)
{
    die "Streamed Stored not supported for '$filename'\n";
}

next if $compressedLength == 0;

# Done reading the Local Header

my $inf = new IO::Uncompress::RawInflate $fh,
    Transparent => 1,
    InputLength => $compressedLength
or die "Cannot uncompress $file [\$filename]: $RawInflateError\n" ;

my $line_count = 0;

while (<$inf>)
{
    ++ $line_count;
}

print "$filename: $line_count\n";

The majority of the code above is concerned with reading the zip local header data. The code that I want to focus on is at the bottom.

while (1) {

    # read local zip header data
    # get $filename
    # get $compressedLength

    my $inf = new IO::Uncompress::RawInflate $fh,
        Transparent => 1,
        InputLength => $compressedLength
    or die "Cannot uncompress $file [\$filename]: $RawInflateError\n" ;

    my $line_count = 0;
while (<$inf>)
{
  ++ $line_count;
}

print "$filename: $line_count
";
}

The call to C<IO::Uncompress::RawInflate> creates a new filehandle C<$inf> that can be used to read from the parent filehandle C<$fh>, uncompressing it as it goes. The use of the C<InputLength> option will guarantee that at most C<$compressedLength> bytes of compressed data will be read from the C<$fh> filehandle (The only exception is for an error case like a truncated file or a corrupt data stream).

This means that once RawInflate is finished C<$fh> will be left at the byte directly after the compressed data stream.

Now consider what the code looks like without C<InputLength>

while (1) {

    # read local zip header data
    # get $filename
    # get $compressedLength

    # read all the compressed data into $data
    read($fh, $data, $compressedLength);

    my $inf = new IO::Uncompress::RawInflate $data,
             Transparent => 1,
    or die "Cannot uncompress $file [$filename]: $RawInflateError\n" ;

    my $line_count = 0;

    while (<$inf>)
    {
        ++ $line_count;
    }

    print "$filename: $line_count
";
}

The difference here is the addition of the temporary variable C<$data>. This is used to store a copy of the compressed data while it is being uncompressed.

If you know that C<$compressedLength> isn't that big then using temporary
storage won't be a problem. But if $compressedLength is very large or you are writing an application that other people will use, and so have no idea how big $compressedLength will be, it could be an issue.

Using $InputLength avoids the use of temporary storage and means the application can cope with large compressed data streams.

One final point -- obviously $InputLength can only be used whenever you know the length of the compressed data beforehand, like here with a zip file.

=head1 SEE ALSO

L<Compress::Zlib>, L<IO::Compress::Gzip>, L<IO::Uncompress::Gunzip>, L<IO::Compress::Deflate>,
L<IO::Uncompress::Inflate>, L<IO::Compress::RawDeflate>, L<IO::Uncompress::RawInflate>,
L<IO::Compress::Bzip2>, L<IO::Uncompress::Bunzip2>, L<IO::Compress::Lzma>,
L<IO::Uncompress::UnLzma>, L<IO::Compress::Xz>, L<IO::Uncompress::UnXz>, L<IO::Compress::Lzop>,
L<IO::Uncompress::UnLzop>, L<IO::Compress::Lzf>, L<IO::Uncompress::UnLzf>,
L<IO::Uncompress::AnyInflate>, L<IO::Uncompress::AnyUncompress>

L<IO::Compress::FAQ|IO::Compress::FAQ>

L<File::GlobMapper|File::GlobMapper>, L<Archive::Zip|Archive::Zip>,
L<Archive::Tar|Archive::Tar>,
L<IO::Zlib|IO::Zlib>

=head1 AUTHOR

This module was written by Paul Marquess, C<pmqs@cpan.org>.

=head1 MODIFICATION HISTORY

See the Changes file.

=head1 COPYRIGHT AND LICENSE

Copyright (c) 2005-2018 Paul Marquess. All rights reserved.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

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IO-Compress
DESCRIPTION
-----------

This distribution provides a Perl interface to allow reading and writing of compressed data created with the zlib and bzip2 libraries.

IO-Compress supports reading and writing of bzip2, RFC 1950, RFC 1951, RFC 1952 (i.e. gzip) and zip files/buffers.

The following modules used to be distributed separately, but are now included with the IO-Compress distribution.

    Compress-Zlib
    IO-Compress-Zlib
    IO-Compress-Bzip2
    IO-Compress-Base

PREREQUISITES
------------

Before you can build IO-Compress you need to have the following installed on your system:

* Perl 5.006 or better.
* Compress::Raw::Zlib
* Compress::Raw::Bzip2

BUILDING THE MODULE
-------------------

Assuming you have met all the prerequisites, the module can now be built using this sequence of commands:

    perl Makefile.PL
    make
    make test

INSTALLATION
------------
To install IO-Compress, run the command below:

```bash
make install
```

**TROUBLESHOOTING**

**FEEDBACK**

How to report a problem with IO-Compress.

To help me help you, I need all of the following information:

1. The Versions of everything relevant.
   This includes:
   a. The *complete* output from running this

   ```bash
   perl -V
   ```

   Do not edit the output in any way.
   Note, I want you to run "perl -V" and NOT "perl -v".

   If your perl does not understand the "-V" option it is too old. This module needs Perl version 5.004 or better.

   b. The version of IO-Compress you have.
      If you have successfully installed IO-Compress, this one-liner will tell you:

      ```bash
      perl -MIO::Compress::Gzip -e 'print qq[ver $IO::Compress::Gzip::VERSION\n];'
      ```

      If you are running windows use this

      ```bash
      perl -MIO::Compress::Gzip -e "print qq[ver $IO::Compress::Gzip::VERSION\n];"
      ```

      If you haven't installed IO-Compress then search IO::Compress::Gzip.pm for a line like this:

      ```perl
      $VERSION = "2.081" ;
      ```

2. If you are having problems building IO-Compress, send me a complete log of what happened. Start by unpacking the IO-Compress module into a fresh directory and keep a log of all the steps

   [edit config.in, if necessary]
perl Makefile.PL
make
test TEST_VERBOSE=1

Paul Marquess <pmqs@cpan.org>

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=head1 NAME

File::GlobMapper - Extend File Glob to Allow Input and Output Files

=head1 SYNOPSIS

use File::GlobMapper qw( globmap );

my $aref = globmap $input => $output
  or die $File::GlobMapper::Error ;

my $gm = new File::GlobMapper $input => $output
  or die $File::GlobMapper::Error ;

=head1 DESCRIPTION

This module needs Perl5.005 or better.

This module takes the existing C<File::Glob> module as a starting point and extends it to allow new filenames to be derived from the files matched by C<File::Glob>.

This can be useful when carrying out batch operations on multiple files that have both an input filename and output filename and the output file can be derived from the input filename. Examples of operations where this can be useful include, file renaming, file copying and file compression.

=head2 Behind The Scenes

To help explain what C<File::GlobMapper> does, consider what code you would write if you wanted to rename all files in the current directory that ended in C<.tar.gz> to C<.tgz>. So say these files are in the current directory

    alpha.tar.gz
beta.tar.gz
gamma.tar.gz

and they need renamed to this

alpha.tgz
beta.tgz
gamma.tgz

Below is a possible implementation of a script to carry out the rename
(error cases have been omitted)

```perl
foreach my $old ( glob "*.tar.gz" ) {
    my $new = $old;
    $new =~ s#(.*)\.tar\.gz$#$1.tgz# ;
    rename $old => $new
        or die "Cannot rename '$old' to '$new': $!
; }
```

Notice that a file glob pattern `*.*.tar.gz` was used to match the
`.tar.gz` files, then a fairly similar regular expression was used in
the substitute to allow the new filename to be created.

Given that the file glob is just a cut-down regular expression and that it
has already done a lot of the hard work in pattern matching the filenames,
wouldn't it be handy to be able to use the patterns in the fileglob to
drive the new filename?

Well, that's exactly what `File::GlobMapper` does.

Here is same snippet of code rewritten using `globmap`

```perl
for my $pair (globmap '<*.tar.gz>' => '<#1.tgz>') {
    my ($from, $to) = @$pair;
    rename $from => $to
        or die "Cannot rename '$old' to '$new': $!
; }
```

So how does it work?

Behind the scenes the `globmap` function does a combination of a
file glob to match existing filenames followed by a substitute
to create the new filenames.

Notice how both parameters to `globmap` are strings that are delimited by `< >`. 
This is done to make them look more like file globs - it is just syntactic sugar, but it can be handy when you want the strings to be visually distinctive. The enclosing <> are optional, so you don’t have to use them - in fact the first thing globmap will do is remove these delimiters if they are present.

The first parameter to C<globmap>, C<*.tar.gz>, is an I<Input File Glob>. Once the enclosing "< ... >" is removed, this is passed (more or less) unchanged to C<File::Glob> to carry out a file match.

Next the fileglob C<*.tar.gz> is transformed behind the scenes into a full Perl regular expression, with the additional step of wrapping each transformed wildcard metacharacter sequence in parenthesis.

In this case the input fileglob C<*.tar.gz> will be transformed into this Perl regular expression

    ([^.]*).tar.gz

Wrapping with parenthesis allows the wildcard parts of the Input File Glob to be referenced by the second parameter to C<globmap>, C<#1.tgz>, the I<Output File Glob>. This parameter operates just like the replacement part of a substitute command. The difference is that the C<$1> syntax is used to reference sub-patterns matched in the input fileglob, rather than the C<$1> syntax that is used with perl regular expressions. In this case C<$1> is used to refer to the text matched by the C<*> in the Input File Glob. This makes it easier to use this module where the parameters to C<globmap> are typed at the command line.

The final step involves passing each filename matched by the C<*.tar.gz> file glob through the derived Perl regular expression in turn and expanding the output fileglob using it.

The end result of all this is a list of pairs of filenames. By default that is what is returned by C<globmap>. In this example the data structure returned will look like this

    ( ['alpha.tar.gz' => 'alpha.tgz'],
      ['beta.tar.gz' => 'beta.tgz'],
      ['gamma.tar.gz' => 'gamma.tgz']
     )

Each pair is an array reference with two elements - namely the I<from> filename, that C<File::Glob> has matched, and a I<to> filename that is derived from the I<from> filename.
Limitations

C<File::GlobMapper> has been kept simple deliberately, so it isn't intended to solve all filename mapping operations. Under the hood C<File::Glob> (or for older versions of Perl, C<File::BSDGlob>) is used to match the files, so you will never have the flexibility of full Perl regular expression.

Input File Glob

The syntax for an Input FileGlob is identical to C<File::Glob>, except for the following:

1. No nested {}
2. Whitespace does not delimit fileglobs.
3. The use of parenthesis can be used to capture parts of the input filename.
4. If an Input glob matches the same file more than once, only the first will be used.

The syntax

1. B<~>
2. B<~user>

Matches a literal `.`, Equivalent to the Perl regular expression
Matches zero or more characters, except `/`. Equivalent to the Perl regular expression

```
[^/]*
```

Matches zero or one character, except `/`. Equivalent to the Perl regular expression

```
[^/]?
```

Backslash is used, as usual, to escape the next character.

```
[^[]
```

Character class.

```
[^{,}]
```

Alternation

```
[<()>
```

Capturing parenthesis that work just like perl

```
Any other character is taken literally.
```

The Output File Glob is a normal string, with 2 glob-like features.

The first is the `*` metacharacter. This will be replaced by the complete filename matched by the input file glob. So

```
*.c *.Z
```

The second is

Output FileGlobs take the
The "*" character will be replaced with the complete input filename.

=over 5
=item "*"

Patterns of the form /#\d/ will be replaced with the
=back

=head2 Returned Data

=head1 EXAMPLES

=head2 A Rename script

Below is a simple "rename" script that uses C<globmap> to determine the
source and destination filenames.

use File::GlobMapper qw(globmap) ;
use File::Copy;

die "rename: Usage rename 'from' 'to'
unless @ARGV == 2 ;

my $fromGlob = shift @ARGV;
my $toGlob   = shift @ARGV;

my $pairs = globmap($fromGlob, $toGlob)
or die $File::GlobMapper::Error;

for my $pair (@$pairs)
{
    my ($from, $to) = @$pair;
    move $from => $to ;
}

Here is an example that renames all c files to cpp.

$ rename '*.c' '#1.cpp'

=head2 A few example globmaps
Below are a few examples of globmaps

To copy all your .c file to a backup directory

'</my/home/*.c>' '</my/backup/#1.c>'

If you want to compress all

'</my/home/*.[ch]>' '/*.gz'

To uncompress

'</my/home/*.[ch].gz>' '</my/home/#1.#2>'

=head1 SEE ALSO

L<File::Glob|File::Glob>

=head1 AUTHOR

The I<File::GlobMapper> module was written by Paul Marquess, F<pmqs@cpan.org>.

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Found in path(s):

1.1495 sed 4.5 1.el8
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1.1496 x-text v0.3.3

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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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.
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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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tomb - support for clean goroutine termination in Go.

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

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## Special Recognition ##

One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire buildsystem we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks: but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

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The Red Hat developers, without whom CentOS would look very different

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1.1517 xnio-api 3.3.8.Final

1.1518 micrometer-core 1.1.6

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1.1523 lz4 1.7.5-3.el7.0atomix1

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1.1530 json-iterator-go v1.1.9

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1.1531 perl 2.55-416.el8

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

--------------------------------------------------------------------------
---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the Module-Build mailing list at <module-build@perl.org>.,"
buildRequires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
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  repository: http://github.com/dagolden/module-build/
version: 3

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The End
#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so # that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}
sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = "
    my $copyright_msg = <$readme>

    my ($year) = $copyright_msg =~ /.*(\d{4,})/s
        or die "Year not found in README copyright message '$copyright_msg'";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
        or die "Copyright statement not found in perl -v output "$output";

    $year;
}

1.1532 nss-softokn 3.44.0 8.el7_7
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception. 
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.1536 bzip2 1.0.6 13.el7

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1.1541 perl-net-ssleay 1.88-1.el8

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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/cglib/core/KeyFactory.java
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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/cglib/core/AsmApi.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/cglib/core/ReflectUtils.java

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*/

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*/

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*/

jar/org/springframework/objenesis/SpringObjenesis.java
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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1.jar/org/springframework/asm/CurrentFrame.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1.jar/org/springframework/asm/ModuleWriter.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1.jar/org/springframework/asm/AnnotationVisitor.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1.jar/org/springframework/asm/ClassWriter.java
jar/org/springframework/asm/FieldVisitor.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/asm/Edge.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/asm/AnnotationWriter.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/asm/ClassTooLargeException.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/asm/ClassVisitor.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/asm/Handler.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/asm/FieldWriter.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/asm/SymbolTable.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/asm/MethodTooLargeException.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/asm/RecordComponentVisitor.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/asm/Frame.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/asm/MethodWriter.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/asm/Type.java
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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/asm/MethodVisitor.java
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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/codec/StringDecoder.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/util/FileCopyUtils.java
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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
  jar/org/springframework/core/SmartClassLoader.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
  jar/org/springframework/core/InfrastructureProxy.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
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  jar/org/springframework/framework/core/type/classreading/MetadataReaderFactory.java
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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/io/support/ObjectToOptionalConverter.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/io/support/CollectionToObjectConverter.java
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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/convert/support/MapToMapConverter.java
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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1.jar/org/springframework/core/style/DefaultToStringStyler.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1.jar/org/springframework/core/annotation/Order.java
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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1.jar/org/springframework/core/convert/support/AbstractConditionalEnumConverter.java
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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1.jar/org/springframework/core/env/CompositePropertySource.java
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org.springframework.core.ReactiveAdapterRegistry$SpringCoreBlockHoundIntegration

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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
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1.1546 busybox 1.30.1 r2

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jseward@bzip.org
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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The End

1.1551 glib 2.42.2 5.el7

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"Clone me," says Dolly sheepishly.

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3. [3]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
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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.

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For example, if you distribute copies of the library, whether gratis
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code. If you link a program with the library, you must provide
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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
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Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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.

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.

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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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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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
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For an executable, the required form of the "work that uses the
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It may happen that this requirement contradicts the license
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**1.1563 libcap 2.22 8.el7**

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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
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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
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
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lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
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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/gssapiP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/prop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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 */

size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
---
#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
<thead>
<tr>
<th>Device</th>
<th>Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
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</tr>
</thead>
<tbody>
<tr>
<td>__ts_dev__1</td>
<td></td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
</tbody>
</table>

Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img

Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbe bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

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<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
<tr>
<td>__ts_dev__2</td>
<td>4096</td>
<td>20479</td>
<td>8192</td>
<td></td>
<td>a5</td>
<td>FreeBSD</td>
</tr>
</tbody>
</table>

Create default BSD
2e1cee529cb59e9341afe0443f196a1 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start   end   size   fstype [fsise bsize cpg]
c: 4096   20479  16384  unused    0   0
d: 0 16064 16065 unused 0 0

BSD disklabel command (m for help):
Command (m for help):
-------------------

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start end size fstype [fsize bsize cpg]
a: 4096 6144 2049 4.2BSD 0 0 0
c: 4096 20479 16384 unused 0 0
d: 0 16064 16065 unused 0 0

BSD disklabel command (m for help):
Command (m for help):
-------------------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
0 unused 5 4.1BSD 9 4.4LFS d boot
1 swap 6 Eighth Edition a unknown e ADOS
2 Version 6 7 4.2BSD b HPFS f HFS
3 Version 7 8 MS-DOS c ISO-9660 10 AdvFS
4 System V

BSD disklabel command (m for help):

1.1589 jsr305 3.0.2
1.1590 genetlink v1.0.0
1.1590.1 Available under license :
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```

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Public License instead of this License.
ptargrep - Apply pattern matching to the contents of files in a tar archive

==head1 NAME

ptargrep [options] <pattern> <tar file> ...

Options:

--basename|-b     ignore directory paths from archive
--ignore-case|-i  do case-insensitive pattern matching
--list-only|-l    list matching filenames rather than extracting matches
--verbose|-v      write debugging message to STDERR
--help|-?         detailed help message

==head1 DESCRIPTION

This utility allows you to apply pattern matching to B<the contents> of files contained in a tar archive. You might use this to identify all files in an archive which contain lines matching the specified pattern and either print out the pathnames or extract the files.

The pattern will be used as a Perl regular expression (as opposed to a simple grep regex).

Multiple tar archive filenames can be specified - they will each be processed in turn.

==head1 OPTIONS

=over 4

=item B|--basename> (alias -b)

When matching files are extracted, ignore the directory path from the archive and write to the current directory using the basename of the file from the archive. Beware: if two matching files in the archive have the same basename, the second file extracted will overwrite the first.

=item B|--ignore-case> (alias -i)
Make pattern matching case-insensitive.

=item B|--list-only> (alias -l)

Print the pathname of each matching file from the archive to STDOUT. Without this option, the default behaviour is to extract each matching file.

=item B|--verbose> (alias -v)

Log debugging info to STDERR.

=item B|--help> (alias -?)

Display this documentation.

=head1 COPYRIGHT

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=cut

Found in path(s):
* /opt/cola/permits/1178585769_1625691824.61/0/perl-Archive-Tar-2.30-1.el8-1.src.rpm-cosi-expand-archive-r212ypHv/Archive-Tar-2.30.tar.gz-cosi-expand-archive-ybYp3Jpp/Archive-Tar-2.30/bin/ptargrep

No license file was found, but licenses were detected in source scan.

=head1 GLOBAL VARIABLES

=head2 $Archive::Tar::FOLLOW_SYMLINK

Set this variable to C<1> to make C<Archive::Tar> effectively make a copy of the file when extracting. Default is C<0>, which means the symlink stays intact. Of course, you will have to pack the file linked to as well.

This option is checked when you write out the tarfile using C<write> or C<create_archive>.

This works just like C<bin/tar>'s C<-h> option.

=head2 $Archive::Tar::CHOWN
By default, C<Archive::Tar> will try to C<chown> your files if it is able to. In some cases, this may not be desired. In that case, set this variable to C<0> to disable C<chown>-ing, even if it were possible.

The default is C<1>.

=head2 $Archive::Tar::CHMOD

By default, C<Archive::Tar> will try to C<chmod> your files to whatever mode was specified for the particular file in the archive. In some cases, this may not be desired. In that case, set this variable to C<0> to disable C<chmod>-ing.

The default is C<1>.

=head2 $Archive::Tar::SAME_PERMISSIONS

When, C<$Archive::Tar::CHMOD> is enabled, this setting controls whether the permissions on files from the archive are used without modification of if they are filtered by removing any setid bits and applying the current umask.

The default is C<1> for the root user and C<0> for normal users.

=head2 $Archive::Tar::DO_NOT_USE_PREFIX

By default, C<Archive::Tar> will try to put paths that are over 100 characters in the C<prefix> field of your tar header, as defined per POSIX-standard. However, some (older) tar programs do not implement this spec. To retain compatibility with these older or non-POSIX compliant versions, you can set the C<$DO_NOT_USE_PREFIX> variable to a true value, and C<Archive::Tar> will use an alternate way of dealing with paths over 100 characters by using the C<GNU Extended Header> feature.

Note that clients who do not support the C<GNU Extended Header> feature will not be able to read these archives. Such clients include tars on C<Solaris>, C<Irix> and C<AIX>.

The default is C<0>.

=head2 $Archive::Tar::DEBUG

Set this variable to C<1> to always get the C<Carp::longmess> output of the warnings, instead of the regular C<carp>. This is the same message you would get by doing:
$tar->error(1);

Defaults to C<0>.

=head2 $Archive::Tar::WARN

Set this variable to C<0> if you do not want any warnings printed. Personally I recommend against doing this, but people asked for the option. Also, be advised that this is of course not threadsafe.

Defaults to C<1>.

=head2 $Archive::Tar::error

Holds the last reported error. Kept for historical reasons, but its use is very much discouraged. Use the C<error()> method instead:

    warn $tar->error unless $tar->extract;

Note that in older versions of this module, the C<error()> method would return an effectively global value even when called an instance method as above. This has since been fixed, and multiple instances of C<Archive::Tar> now have separate error strings.

=head2 $Archive::Tar::INSECURE_EXTRACT_MODE

This variable indicates whether C<Archive::Tar> should allow files to be extracted outside their current working directory.

Allowing this could have security implications, as a malicious tar archive could alter or replace any file the extracting user has permissions to. Therefor, the default is to not allow insecure extractions.

If you trust the archive, or have other reasons to allow the archive to write files outside your current working directory, set this variable to C<true>.

Note that this is a backwards incompatible change from version C<1.36> and before.

=head2 $Archive::Tar::HAS_PERLIO

This variable holds a boolean indicating if we currently have C<perlio> support loaded. This will be enabled for any perl greater than C<5.8> compiled with C<perlio>.

If you feel strongly about disabling it, set this variable to
C<false>. Note that you will then need C<IO::String> installed to support writing stringified archives.

Don't change this variable unless you B<really> know what you're doing.

=head2 $Archive::Tar::HAS_IO_STRING

This variable holds a boolean indicating if we currently have C<IO::String> support loaded. This will be enabled for any perl that has a loadable C<IO::String> module.

If you feel strongly about disabling it, set this variable to C<false>. Note that you will then need C<perlio> support from your perl to be able to write stringified archives.

Don't change this variable unless you B<really> know what you're doing.

=head2 $Archive::Tar::ZERO_PAD_NUMBERS

This variable holds a boolean indicating if we will create zero padded numbers for C<size>, C<mtime> and C<checksum>. The default is C<0>, indicating that we will create space padded numbers. Added for compatibility with C<busybox> implementations.

=head2 Tuning the way RESOLVE_SYMLINK will works

You can tune the behaviour by setting the $Archive::Tar::RESOLVE_SYMLINK variable, or $ENV{PERL5_AT_RESOLVE_SYMLINK} before loading the module Archive::Tar.

Values can be one of the following:

none

Disable this mechanism and failed as it was in previous version (<1.88)

speed (default)

If you prefer speed

this will read again the whole archive using read() so all entries will be available

memory

If you prefer memory

Limitation

It won't work for terminal, pipe or sockets or every non seekable source.
FAQ

What's the minimum perl version required to run Archive::Tar?

You will need perl version 5.005_03 or newer.

Isn't Archive::Tar slow?

Yes it is. It's pure perl, so it's a lot slower than your /bin/tar.
However, it's very portable. If speed is an issue, consider using /bin/tar instead.

Isn't Archive::Tar heavier on memory than /bin/tar?

Yes it is, see previous answer. Since Compress::Zlib and therefore IO::Zlib doesn't support seek on their filehandles, there is little choice but to read the archive into memory.

This is ok if you want to do in-memory manipulation of the archive.

If you just want to extract, use the extract_archive class method instead. It will optimize and write to disk immediately.

Another option is to use the iter class method to iterate over the files in the tarball without reading them all in memory at once.

Can you lazy-load data instead?

In some cases, yes. You can use the iter class method to iterate over the files in the tarball without reading them all in memory at once.

How much memory will an X kb tar file need?

Probably more than X kb, since it will all be read into memory. If this is a problem, and you don't need to do in memory manipulation of the archive, consider using the iter class method, or /bin/tar instead.

What do you do with unsupported filetypes in an archive?

Unix has a few filetypes that aren't supported on other platforms, like Win32. If we encounter a hardlink or symlink we'll just try to make a copy of the original file, rather than throwing an error.

This does require you to read the entire archive in to memory first,
since otherwise we wouldn't know what data to fill the copy with.
(This means that you cannot use the class methods, including C<iter>
on archives that have incompatible filetypes and still expect things
to work).

For other filetypes, like C<chardevs> and C<blockdevs> we'll warn that
the extraction of this particular item didn't work.

=item I'm using WinZip, or some other non-POSIX client, and files are not being extracted properly!

By default, C<Archive::Tar> is in a completely POSIX-compatible
mode, which uses the POSIX-specification of C<tar> to store files.
For paths greater than 100 characters, this is done using the
C<POSIX header prefix>. Non-POSIX-compatible clients may not support
this part of the specification, and may only support the C<GNU Extended
Header> functionality. To facilitate those clients, you can set the
C<$Archive::Tar::DO_NOT_USE_PREFIX> variable to C<true>. See the
C<GLOBAL VARIABLES> section for details on this variable.

Note that GNU tar earlier than version 1.14 does not cope well with
the C<POSIX header prefix>. If you use such a version, consider setting
the C<$Archive::Tar::DO_NOT_USE_PREFIX> variable to C<true>.

=item How do I extract only files that have property X from an archive?

Sometimes, you might not wish to extract a complete archive, just
the files that are relevant to you, based on some criteria.

You can do this by filtering a list of C<Archive::Tar::File> objects
based on your criteria. For example, to extract only files that have
the string C<foo> in their title, you would use:

```perl
$tar->extract(
    grep { $_->full_path =~ /foo/ } $tar->get_files
);
```

This way, you can filter on any attribute of the files in the archive.
Consult the C<Archive::Tar::File> documentation on how to use these
objects.

=item How do I access .tar.Z files?

The C<Archive::Tar> module can optionally use C<Compress::Zlib> (via
the C<IO::Zlib> module) to access tar files that have been compressed
with C<gzip>. Unfortunately tar files compressed with the Unix C<compress>
utility cannot be read by C<Compress::Zlib> and so cannot be directly
accesses by C<Archive::Tar>. 
If the C<uncompress> or C<gunzip> programs are available, you can use one of these workarounds to read C<.tar.Z> files from C<Archive::Tar>.

Firstly with C<uncompress>:

use Archive::Tar;

open F, "uncompress -c $filename |";
my $tar = Archive::Tar->new(*F);
...

and this with C<gunzip>:

use Archive::Tar;

open F, "gunzip -c $filename |";
my $tar = Archive::Tar->new(*F);
...

Similarly, if the C<compress> program is available, you can use this to write a C<.tar.Z> file:

use Archive::Tar;
use IO::File;

my $fh = new IO::File "| compress -c >$filename"
my $tar = Archive::Tar->new();
...
$tar->write($fh);
$fh->close;

=item How do I handle Unicode strings?

C<Archive::Tar> uses byte semantics for any files it reads from or writes to disk. This is not a problem if you only deal with files and never look at their content or work solely with byte strings. But if you use Unicode strings with character semantics, some additional steps need to be taken.

For example, if you add a Unicode string like

    # Problem
    $tar->add_data('file.txt', "Euro: \x{20AC}");

then there will be a problem later when the tarfile gets written out to disk via C<< $tar->write() >>:

    Wide character in print at ../../../Archive/Tar.pm line 1014.
The data was added as a Unicode string and when writing it out to disk, the C<utf8> line discipline wasn’t set by C<Archive::Tar>, so Perl tried to convert the string to ISO-8859 and failed. The written file now contains garbage.

For this reason, Unicode strings need to be converted to UTF-8-encoded bytestrings before they are handed off to C<add_data()>:

```perl
use Encode;
my $data = "Accented character: \x{20AC}";
$data = encode('utf8', $data);

$tar->add_data('file.txt', $data);
```

A opposite problem occurs if you extract a UTF8-encoded file from a tarball. Using C<get_content()> on the C<Archive::Tar::File> object will return its content as a bytestring, not as a Unicode string.

If you want it to be a Unicode string (because you want character semantics with operations like regular expression matching), you need to decode the UTF8-encoded content and have Perl convert it into a Unicode string:

```perl
use Encode;
my $data = $tar->get_content();

# Make it a Unicode string
$data = decode('utf8', $data);
```

There is no easy way to provide this functionality in C<Archive::Tar>, because a tarball can contain many files, and each of which could be encoded in a different way.

=head1 CAVEATS

The AIX tar does not fill all unused space in the tar archive with 0x00. This sometimes leads to warning messages from C<Archive::Tar>.

Invalid header block at offset nnn

A fix for that problem is scheduled to be released in the following levels of AIX, all of which should be coming out in the 4th quarter of 2009:

AIX 5.3 TL7 SP10
AIX 5.3 TL8 SP8
AIX 5.3 TL9 SP5
AIX 5.3 TL10 SP2
AIX 6.1 TL0 SP11
AIX 6.1 TL1 SP7
AIX 6.1 TL2 SP6
AIX 6.1 TL3 SP3

The IBM APAR number for this problem is IZ50240 (Reported component ID: 5765G0300 / AIX 5.3). It is possible to get an ifix for that problem. If you need an ifix please contact your local IBM AIX support.

=head1 TODO

=over 4

=item Check if passed in handles are open for read/write

Currently I don't know of any portable pure perl way to do this. Suggestions welcome.

=item Allow archives to be passed in as string

Currently, we only allow opened filehandles or filenames, but not strings. The internals would need some reworking to facilitate stringified archives.

=item Facilitate processing an opened filehandle of a compressed archive

Currently, we only support this if the filehandle is an IO::Zlib object. Environments, like apache, will present you with an opened filehandle to an uploaded file, which might be a compressed archive.

=back

=head1 SEE ALSO

=over 4

=item The GNU tar specification


=item The PAX format specification

The specification which tar derives from; C<http://www.opengroup.org/onlinepubs/007904975/utilities/pax.html>

=item A comparison of GNU and POSIX tar standards; C<http://www.delorie.com/gnu/docs/tar/tar_114.html>
GNU tar intends to switch to POSIX compatibility

GNU Tar authors have expressed their intention to become completely
POSIX-compatible; C<http://www.gnu.org/software/tar/manual/html_node/Formats.html>

A Comparison between various tar implementations

Lists known issues and incompatibilities; C<http://gd.tuwien.ac.at/utils/archivers/star/README.otherbugs>

AUTHOR

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Please reports bugs to E<lt>bug-archive-tar@rt.cpan.orgE<gt>.

ACKNOWLEDGEMENTS

Thanks to Sean Burke, Chris Nandor, Chip Salzenberg, Tim Heaney, Gisle Aas,
Rainer Tammer and especially Andrew Savige for their help and suggestions.

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Found in path(s):
* /opt/cola/permits/1178585769_1625691824.61/0/perl-Archive-Tar-2.30-1.el8-1.src.rpm-cosi-expand-archive-
r212ypHv/Archive-Tar-2.30.tar.gz-cosi-expand-archive-ybYp3Upp/Archive-Tar-2.30/lib/Archive/Tar.pm
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r212ypHv/perl-Archive-Tar.spec
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abstract: 'Manipulates TAR archives'

author:
- `Jos Boumans <kane[at]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 2.150010`
license: perl
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: '1.4'
name: Archive-Tar
no_index:
directory:
  - t
  - inc
requires:
  Compress::Zlib: '2.015'
  File::Spec: '0.82'
  IO::Compress::Base: '2.015'
  IO::Compress::Bzip2: '2.015'
  IO::Compress::Gzip: '2.015'
  IO::Zlib: '1.01'
  Test::Harness: '2.26'
  Test::More: '0'
  perl: '5.00503'
resources:
  repository: https://github.com/jib/archive-tar-new
version: '2.30'
x_serialization_backend: `CPAN::Meta::YAML version 0.018'

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**1.1594 spring-framework 5.1.9.RELEASE**

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jar/org/springframework/cglib/core/AbstractClassGenerator.java
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jar/org/springframework/util/DigestUtils.java
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* /opt/ws_local/PERMITS_SQL/1069262461_1594595111.79/0/spring-core-5-1-9-release-sources-jar/springframework/core/convert/support/ConfigurableConversionService.java

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jar/org/springframework/core/io/support/ResourcePatternUtils.java
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* /opt/ws_local/PERMITS_SQL/1069262461_1594595111.79/0/spring-core-5-1-9-release-sources-jar/org/springframework/util/IdGenerator.java
* /opt/ws_local/PERMITS_SQL/1069262461_1594595111.79/0/spring-core-5-1-9-release-sources-jar/org/springframework/core/type/StandardMethodMetadata.java
* /opt/ws_local/PERMITS_SQL/1069262461_1594595111.79/0/spring-core-5-1-9-release-sources-jar/org/springframework/core/env/SystemEnvironmentPropertySource.java
* /opt/ws_local/PERMITS_SQL/1069262461_1594595111.79/0/spring-core-5-1-9-release-sources-jar/org/springframework/core/type/AnnotatedTypeMetadata.java
* /opt/ws_local/PERMITS_SQL/1069262461_1594595111.79/0/spring-core-5-1-9-release-sources-jar/org/springframework/util/SimpleIdGenerator.java
* /opt/ws_local/PERMITS_SQL/1069262461_1594595111.79/0/spring-core-5-1-9-release-sources-jar/org/springframework/core/convert/support/StringToCurrencyConverter.java
* /opt/ws_local/PERMITS_SQL/1069262461_1594595111.79/0/spring-core-5-1-9-release-sources-jar/org/springframework/core/convert/support/FallbackObjectToStringConverter.java
* /opt/ws_local/PERMITS_SQL/1069262461_1594595111.79/0/spring-core-5-1-9-release-sources-jar/org/springframework/core/convert/support/StringToCharsetConverter.java
* /opt/ws_local/PERMITS_SQL/1069262461_1594595111.79/0/spring-core-5-1-9-release-sources-jar/org/springframework/core/annotation/AnnotationConfigurationException.java
* /opt/ws_local/PERMITS_SQL/1069262461_1594595111.79/0/spring-core-5-1-9-release-sources-jar/org/springframework/core/Ordered.java
* /opt/ws_local/PERMITS_SQL/1069262461_1594595111.79/0/spring-core-5-1-9-release-sources-jar/org/springframework/core/util/AlternativeJdkIdGenerator.java
* /opt/ws_local/PERMITS_SQL/1069262461_1594595111.79/0/spring-core-5-1-9-release-sources-jar/org/springframework/core/convert/support/DefaultSerializer.java
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jar/org/springframework/core/convert/ConversionException.java

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* /opt/ws_local/PERMITS_SQL/1069262461_1594595111.79/0/spring-core-5-1-9-release-sources-
jar/org/springframework/core/io/support/ResourcePatternResolver.java
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jar/org/springframework/core/io/ContextResource.java
* /opt/ws_local/PERMITS_SQL/1069262461_1594595111.79/0/spring-core-5-1-9-release-sources-
jar/org/springframework/core/type/filter/RegexPatternTypeFilter.java

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  jar/org/springframework/core/type/filter/AnnotationTypeFilter.java
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  jar/org/springframework/core/task/SimpleAsyncTaskExecutor.java
* /opt/ws_local/PERMITS_SQL/1069262461_1594595111.79/0/spring-core-5-1-9-release-sources-
  jar/org/springframework/core/SpringVersion.java
* /opt/ws_local/PERMITS_SQL/1069262461_1594595111.79/0/spring-core-5-1-9-release-sources-
  jar/org/springframework/core/annotation/AnnotationAwareOrderComparator.java
* /opt/ws_local/PERMITS_SQL/1069262461_1594595111.79/0/spring-core-5-1-9-release-sources-
  jar/org/springframework/util/function/SupplierUtils.java
* /opt/ws_local/PERMITS_SQL/1069262461_1594595111.79/0/spring-core-5-1-9-release-sources-
  jar/org/springframework/core/io/support/ResourceArrayPropertyEditor.java
* /opt/ws_local/PERMITS_SQL/1069262461_1594595111.79/0/spring-core-5-1-9-release-sources-
  jar/org/springframework/core/LocalVariableTableParameterNameDiscoverer.java
* /opt/ws_local/PERMITS_SQL/1069262461_1594595111.79/0/spring-core-5-1-9-release-sources-
  jar/org/springframework/core/io/JOptCommandLinePropertySource.java
* /opt/ws_local/PERMITS_SQL/1069262461_1594595111.79/0/spring-core-5-1-9-release-sources-
  jar/org/springframework/core/codec/DataBufferEncoder.java
* /opt/ws_local/PERMITS_SQL/1069262461_1594595111.79/0/spring-core-5-1-9-release-sources-
  jar/org/springframework/core/ExceptionDepthComparator.java
* /opt/ws_local/PERMITS_SQL/1069262461_1594595111.79/0/spring-core-5-1-9-release-sources-
  jar/org/springframework/core/LocalVariableTableParameterNameDiscoverer.java
* /opt/ws_local/PERMITS_SQL/1069262461_1594595111.79/0/spring-core-5-1-9-release-sources-
  jar/org/springframework/core/env/JOptCommandLinePropertySource.java
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Ty Coon, President of Vice

That's all there is to it!
1.1596 ldns 1.6.16 10.el7

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1.1597 pillow 2.0.0-19.gitd1c6db8.el7

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GIMP Palette
Name: custompalette
Columns: 4
#
0 0 0   Index 3
65 38 30   Index 4
103 62 49   Index 6
79 73 72   Index 7
114 101 97   Index 8
208 127 100   Index 9
151 144 142   Index 10
221 207 199   Index 11

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GIMP Palette
Name: badpalettefile
Columns: 4
#
0 0 0 0 0 Index 3
01234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789
103 62 49 Index 6
79 73 72 Index 7
114 101 97 Index 8
208 127 100 Index 9
151 144 142 Index 10
221 207 199 Index 11
GIMP Palette
Name: Test
Columns: 0
#
GIMP Palette
Name: badpaletteentry
Columns: 4
#
0 0 0 0 0 Index 3
65 38
103 62 49 Index 6
79 73 72 Index 7
114 101 97 Index 8
208 127 100 Index 9
151 144 142 Index 10
221 207 199 Index 11

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1.1602 jmockit 1.48

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1.1604 jakarta-annotation-api 1.3.5

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jar/com/google/errorprone/annotations/FormatString.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-
jar/com/google/errorprone/annotations/FormatMethod.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-
jar/com/google/errorprone/annotations/MustBeClosed.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-
jar/com/google/errorprone/annotations/RestrictedApi.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-
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* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5.jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5.jar/com/google/errorprone/annotations/concurrent/GuardedBy.java
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* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/IncompatibleModifiers.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/concurrent/LazyInit.java
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```
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```

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```
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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1.6141 kubernetes-kube-scheduler v0.23.0

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1.1615 go-openapi-spec v0.20.3

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package spec

import (
    "encoding/json"
    "testing"
var license = License{
    LicenseProps: LicenseProps{Name: "the name", URL: "the url"},
    VendorExtensible: VendorExtensible{Extensions: map[string]interface{}{"x-license": "custom term"}}
}

const licenseJSON = `{
    "name": "the name",
    "url": "the url",
    "x-license": "custom term"
}`

func TestIntegrationLicense(t *testing.T) {
    // const licenseYAML = "name: the name\nurl: the url"

    b, err := json.MarshalIndent(license, "", "\t")
    if assert.NoError(t, err) {
        assert.Equal(t, licenseJSON, string(b))
    }

    actual := License{}
    err = json.Unmarshal([]byte(licenseJSON), &actual)
    if assert.NoError(t, err) {
        assert.EqualValues(t, license, actual)
    }
}

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package spec

import (
    "encoding/json"
    "github.com/go-openapi/swag"
)
// License information for the exposed API.
// For more information: http://goo.gl/8us55a#licenseObject

type License struct {
    LicenseProps
    VendorExtensible
}

// LicenseProps holds the properties of a License object

type LicenseProps struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

// UnmarshalJSON hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

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1.1616 util-linux 2.34 0.1ubuntu9.1

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package minio

import {
    "bytes"
    "context"
    "encoding/xml"
    "fmt"
    "net/http"
    "net/url"
    "github.com/minio/minio-go/v7/pkg/s3utils"
}

// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html
// XMLNS string `xml:"xmlns:attr.omitempty"
// XMLName xml.Name `xml:"LegalHold"
// Status LegalHoldStatus `xml:"Status,omitempty"

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
// type PutObjectLegalHoldOptions struct {
//    VersionID string
//    Status *LegalHoldStatus
// }

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
// type GetObjectLegalHoldOptions struct {
//    VersionID string
// }

// LegalHoldStatus - object legal hold status.
// type LegalHoldStatus string

const {
    // LegalHoldEnabled indicates legal hold is enabled
    LegalHoldEnabled LegalHoldStatus = "ON"

    // LegalHoldDisabled indicates legal hold is disabled
    LegalHoldDisabled LegalHoldStatus = "OFF"
}

func (r LegalHoldStatus) String() string {
    return string(r)
IsValid - check whether this legal hold status is valid or not.

```go
func (r LegalHoldStatus) IsValid() bool {
    return r == LegalHoldEnabled || r == LegalHoldDisabled
}
```

```go
func newObjectLegalHold(status *LegalHoldStatus) (*objectLegalHold, error) {
    if status == nil {
        return nil, fmt.Errorf("Status not set")
    }
    if !status.IsValid() {
        return nil, fmt.Errorf("invalid legal hold status `%v`", status)
    }
    legalHold := &objectLegalHold{
        Status: *status,
    }
    return legalHold, nil
}
```

PutObjectLegalHold : sets object legal hold for a given object and versionID.

```go
func (c Client) PutObjectLegalHold(ctx context.Context, bucketName, objectName string, opts PutObjectLegalHoldOptions) error {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return err
    }

    // Get resources properly escaped and lined up before
    // using them in http request.
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", ")
    if opts.VersionID != "" {
    }

    lh, err := newObjectLegalHold(opts.Status)
    if err != nil {
        return err
    }

    lhData, err := xml.Marshal(lh)
    if err != nil {
        return err
    }
```
// Execute PUT Object Legal Hold.
resp, err := c.executeMethod(ctx, "PUT", reqMetadata)
deferr closResp(resp)
if err != nil {
    return err
}
if resp != nil {
        return httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
return nil

// GetObjectLegalHold gets legal-hold status of given object.
func (c Client) GetObjectLegalHold(ctx context.Context, bucketName, objectName string, opts GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return nil, err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return nil, err
    }
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", "")
    if opts.VersionID != "" {
    }
    // Execute GET on bucket to list objects.
    resp, err := c.executeMethod(ctx, "GET", requestMetadata{
        bucketName:       bucketName,
        objectName:       objectName,
        queryValues:      urlValues,
        contentBody:      bytes.NewReader(lhData),
        contentLength:    int64(len(lhData)),
        contentMD5Base64: sumMD5Base64(lhData),
        contentSHA256Hex: sum256Hex(lhData),
    })

defer closeResponse(resp)
if err != nil {
    return nil, err
}
if resp != nil {
    if resp.StatusCode != http.StatusOK {
        return nil, httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
lh := &objectLegalHold{
    if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
        return nil, err
    }
}
return &lh.Status, nil

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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.

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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
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all the notices that refer to this License and to the absence of any
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You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:
a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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1.1621 libsemanage 2.5-14.el7_9.0atomix1

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Preamble

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When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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.)

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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1.1622 perl-text-tabs-wrap 2013.0523 395.el8

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---
abstract: 'Expand tabs and do simple line wrapping'
author:
- 'David Muir Sharnoff <muir@idiom.org>'
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.62, CPAN::Meta::Converter version 2.112150'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Text-Tabs+Wrap
no_index:
directory:
  - t
  - inc
requires: {}
resources:
  repository: http://github.com/muir/Text-Tabs-Wrap
version: 2013.0523

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1.1623 antlr 2.7.7

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1.1624 go-colorable v0.1.1

1.1624.1 Available under license:

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1.1625 urllib3 1.10.2
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# Contributions to the urllib3 project

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## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
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* 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
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  * Non-multipart encoding for POST requests
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  * Code review, PEP8 compliance, benchmark fix

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  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.
* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/> 
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* 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 <abacadabacaba@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

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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1.1626 rpm 4.11.3-40.el7

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1.1631 libnfnetlink 1.0.1 4.el7
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1.1635 gnuTLS 3.6.8 11.el8_2

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========

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The JTS tests module contains source from JDOM Contrib 1.1.3 which is available under the Jdom License [1]. The two files are LineNumberElement.java and LineNumberSAXHandler.java.

Typical users of this library will not need to depend on this module.


### GeoTools

JTS includes some code from the GeoTools project. This code has been licensed to the JTS project under the OSGeo BSD License [2] by the GeoTools PSC [3,4].


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NekoHTML is a simple HTML scanner and tag balancer that enables application programmers to parse HTML documents and access the information using standard XML interfaces. The parser can scan HTML files and "fix up" many common mistakes that human (and computer) authors make in writing HTML documents. NekoHTML adds missing parent elements; automatically closes elements with optional end tags; and can handle mismatched inline element tags.

NekoHTML is written using the Xerces Native Interface (XNI) that is the foundation of the Xerces2 implementation. This enables you to use the NekoHTML parser with existing XNI tools without modification or rewriting code.
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   analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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  jar/io/netty/handler/codec/http2/Http2StreamChannelId.java
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* /opt/cola/permits/110676728_1606843273.36/0/netty-codec-http2-4-1-32-final-sources-1-
ar/io/netty/handler/codec/http2/StreamByteDistributor.java
* /opt/cola/permits/110676728_1606843273.36/0/netty-codec-http2-4-1-32-final-sources-1-
ar/io/netty/handler/codec/http2/AbstractInboundHttp2ToHttpAdapterBuilder.java
* /opt/cola/permits/110676728_1606843273.36/0/netty-codec-http2-4-1-32-final-sources-1-
ar/io/netty/handler/codec/http2/Http2ConnectionEncoder.java
* /opt/cola/permits/110676728_1606843273.36/0/netty-codec-http2-4-1-32-final-sources-1-
ar/io/netty/handler/codec/http2/Http2PromisedRequestVerifier.java
* /opt/cola/permits/110676728_1606843273.36/0/netty-codec-http2-4-1-32-final-sources-1-
ar/io/netty/handler/codec/http2/DecoratingHttp2FrameWriter.java
* /opt/cola/permits/110676728_1606843273.36/0/netty-codec-http2-4-1-32-final-sources-1-
ar/io/netty/handler/codec/http2/StreamBufferingEncoder.java
* /opt/cola/permits/110676728_1606843273.36/0/netty-codec-http2-4-1-32-final-sources-1-
ar/io/netty/handler/codec/http2/Http2StreamVisitor.java
* /opt/cola/permits/110676728_1606843273.36/0/netty-codec-http2-4-1-32-final-sources-1-
ar/io/netty/handler/codec/http2/WeightedFairQueueByteDistributor.java
* /opt/cola/permits/110676728_1606843273.36/0/netty-codec-http2-4-1-32-final-sources-1-
ar/io/netty/handler/codec/http2/DecoratingHttp2ConnectionDecoder.java

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ar/io/netty/handler/codec/http2/AbstractHttp2ConnectionHandlerBuilder.java
* /opt/cola/permits/110676728_1606843273.36/0/netty-codec-http2-4-1-32-final-sources-1-
ar/io/netty/handler/codec/http2/CharSequenceMap.java
* /opt/cola/permits/110676728_1606843273.36/0/netty-codec-http2-4-1-32-final-sources-1-
ar/io/netty/handler/codec/http2/Http2ConnectionHandlerBuilder.java
* /opt/cola/permits/110676728_1606843273.36/0/netty-codec-http2-4-1-32-final-sources-1-
ar/io/netty/handler/codec/http2/Http2ConnectionHandlerBuilder.java
* /opt/cola/permits/110676728_1606843273.36/0/netty-codec-http2-4-1-32-final-sources-1-
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1.1651 strace 4.24 9.el8

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1.1652 beats v7.13.4

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description: Pipeline for normalizing Zeek notice.log

processors:
- set:
  field: event.ingested
  value: '{{_ingest.timestamp}}'
- set:
  field: event.created
  value: '{{@timestamp}}'
- date:
  field: zeek.notice.ts
  formats:
  - UNIX
- remove:
  field: zeek.notice.ts
- geoip:
  field: destination.ip
  target_field: destination.geo
  ignore_missing: true
- geoip:
```

Open Source Used In APIC-SE-BATMAN 2.1.1d 20674
field: source.ip
target_field: source.geo
ignore_missing: true
- geoip:
  database_file: GeoLite2-ASN.mmdb
  field: source.ip
target_field: source.as
properties:
  - asn
  - organization_name
ignore_missing: true
- geoip:
  database_file: GeoLite2-ASN.mmdb
  field: destination.ip
  target_field: destination.as
properties:
  - asn
  - organization_name
ignore_missing: true
  - rename:
    field: source.as.asn
target_field: source.as.number
ignore_missing: true
  - rename:
    field: source.as.organization_name
target_field: source.as.organization.name
ignore_missing: true
  - rename:
    field: destination.as.asn
target_field: destination.as.number
ignore_missing: true
  - rename:
    field: destination.as.organization_name
target_field: destination.as.organization.name
ignore_missing: true
- append:
  field: related.ip
  value: 
"{{ source.ip }}" 
if: "ctx?.source?.ip != null"
- append:
  field: related.ip
  value: 
"{{ destination.ip }}" 
if: "ctx?.destination?.ip != null"
- append:
  field: event.type
  value: allowed
  if: "ctx?.zeek?.notice?.dropped == false"
- append:
field: event.type
value: denied
if: "ctx?.zeek?.notice?.dropped == true"
on_failure:
  - set:
      field: error.message
      value: '{ { _ingest.on_failure_message } }'
<5>1 2021-03-09T10:17:54Z VAULT
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Version: v0.4.0
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Licence type (autodetected): MIT
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Dependency : github.com/dop251/goja_nodejs
Version: v0.0.0-20171011081505-adff31b136e6
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Dependency : github.com/dustin/go-humanize
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Dependency : github.com/eapache/go-resiliency
Version: v1.2.0
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Dependency : github.com/eclipse/paho.mqtt.golang
Version: v1.2.1-0.20200121105743-0d940dd29fd2
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Version: v0.0.8
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Dependency : github.com/fatih/color
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Version: v0.0.0-20181029231046-e1d381a4d270
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Dependency : github.com/gofrs/flock
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Dependency : github.com/gorhill/cronexpr
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Dependency : github.com/hashicorp/nomad/api
Version: v0.0.0-20200303134319-e31695b5bbe6
Licence type (autodetected): MPL-2.0
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Dependency : github.com/jarcoal/httpmock
Version: v1.0.4
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Dependency: github.com/jmoiron/sqlx
Version: v1.2.1-0.20190826204134-d7d95172beb5
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Dependency: github.com/joeshaw/multierror
Version: v0.0.0-20140124173710-69b34d4ec901
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Dependency : github.com/jonboulle/clockwork
Version: v0.2.2
Licence type (autodetected): Apache-2.0

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Dependency : github.com/blakerouse/service
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Dependency : github.com/magefile/mage  
Version: v1.11.0  
Licence type (autodetected): Apache-2.0

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Version: v0.1.6
Licence type (autodetected): MIT
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Dependency : github.com/miekg/dns
Version: v1.1.15
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Dependency : github.com/mitchellh/gox
Version: v1.0.1
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Dependency : github.com/mitchellh/mapstructure
Version: v1.3.3
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Dependency: github.com/oklog/ulid
Version: v1.3.1
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Dependency: github.com/prometheus/client_model
Version: v0.0.0-20190812154241-14fe0d1b01d4
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Dependency : github.com/prometheus/common
Version: v0.7.0
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Version: v1.7.0
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Version: v1.29.1
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Version: v0.0.0-20170623195520-56545f4a5d46
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Version: v0.0.0-20160213150051-ce5280129e9e
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Dependency : github.com/census-instrumentation/opencensus-proto
Version: v0.2.1
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Version: v1.1.0
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Version: v1.1.10
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Version: v0.0.0-20180603132655-2972be24d48e
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Dependency: github.com/chzyer/test
Version: v0.0.0-20180213035817-a1ea475d72b1
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Dependency : github.com/client9/misspell
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Dependency : github.com/cncf/udpa/go
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Dependency : github.com/creack/pty
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Dependency : github.com/davecgh/go-spew
Version: v1.1.1
Licence type (autodetected): ISC

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Dependency: github.com/davecgh/go-xdr
Version: v0.0.0-20161123171359-e6a2ba005892
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Dependency: github.com/devigned/tab
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Dependency : github.com/dgraph-io/ristretto
Version: v0.0.3-0.20200630154024-f66de99634de
Licence type (autodetected): Apache-2.0

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Version: v1.1.7-0.2017100920623-7632a260cbaf
Licence type (autodetected): MIT

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Version: v0.0.1
Licence type (autodetected): Apache-2.0
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Version: v1.0.1
Licence type (autodetected): Apache-2.0

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Version: v0.0.0-20180725130230-947c36da3153
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Version: v0.9.4
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Dependency : github.com/frankban/quicktest
Version: v1.10.2
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Dependency: github.com/ghodss/yaml
Version: v1.0.0
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Dependency : github.com/go-gl/glfw/v3.3/glfw
Version: v0.0.0-20191125211704-12ad95a8df72
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Dependency : github.com/go-kit/kit
Version: v0.9.0
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Dependency : github.com/golang/glog
Version: v0.0.0-20160126235308-23def4e6c14b
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Dependency : github.com/golang/groupcache
Version: v0.0.0-20191227052852-215e87163ea7
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Dependency : github.com/hashicorp/errwrap
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Version: v1.0.0
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Dependency : github.com/ianlancetaylor/demangle
Version: v0.0.0-20181102032728-5e5cf60278f6
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Version: v0.0.0-20180206201540-c2b33e8439af
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Version: v1.1.10
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Go package for parsing (and, eventually, generating)
log lines in the logfmt style.

See http://godoc.org/github.com/kr/logfmt for format, and other documentation and examples.

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Dependency : github.com/magiconair/properties
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Version: v0.17.0
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Dependency : github.com/martini-contrib/render
Version: v0.0.0-20150707142108-ec18f8345a11
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Dependency : github.com/mattn/go-ieproxy
Version: v0.0.0-20191113090002-7c0f6868bffe
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Version: v0.0.12
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Dependency : github.com/matttproud/golang_protobuf_extensions
Version: v1.0.2-0.20181231171920-c182affec369
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Dependency : github.com/mitchellh/go-homedir
Version: v1.1.0
Licence type (autodetected): MIT

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Dependency : github.com/mitchellh/go-testing-interface
Version: v1.0.0
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Dependency : github.com/modern-go/concurrent
Version: v0.0.0-20180306012644-bacd9c7ef1dd
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Dependency : github.com/munnerz/goautoneg
Version: v0.0.0-20120707110453-a547fc61f48d
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Dependency : github.com/mxk/go-flowrate
Version: v0.0.0-20140419014527-cca7078d478f
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Dependency: github.com/niemeyer/prett
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Dependency: github.com/onsi/ginkgo
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Dependency : github.com/opencontainers/go-digest
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--------------------------------------------------------------------------------
Dependency : github.com/otiai10/curr
Version: v1.0.0
Licence type (autodetected): MIT
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Dependency : github.com/otiai10/mint
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Dependency : github.com/oxtoacart/bpool
Version: v0.0.0-20150712133111-4e1c5567d7c2
Licence type (autodetected): Apache-2.0

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Version: v1.2.0
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Dependency : github.com/peterbourgon/diskv
Version: v2.0.1+incompatible
Licence type (autodetected): MIT

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Dependency : github.com/pierrec/lz4
Version: v2.5.2+incompatible
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Version: v0.0.0-20130731160455-ca8abbf65d0e
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Version: v0.0.0-20170819195128-ed9d249f429b
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Dependency : github.com/sanathkr/yaml
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Dependency: github.com/santhosh-tekuri/jsonschema
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Dependency : github.com/satori/go.uuid
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Dependency : github.com/sergi/go-diff
Version: v1.1.0
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Dependency : github.com/sirupsen/logrus
Version: v1.4.2
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Dependency: github.com/smartystreets/assertions
Version: v0.0.0-20180927180507-b2de0cb4f26d
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Dependency : github.com/spaolacci/murmur3
Version: v1.1.0
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Dependency : github.com/spf13/afero
Version: v1.2.2
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Version: v0.0.0-20170704070218-db04d3cc01c8
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Dependency : github.com/urfave/cli
Open Source Used In APIC-SE-BATMAN 2.1.1d  21489

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Version: v1.0.0
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Version: v0.0.0-20170403160031-b402f3114ec7
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Version: v0.22.2
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Dependency : go.uber.org/goleak
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Version: v0.0.0-20190618225709-2cf6321de3ee
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Dependency : gopkg.in/check.v1
Version: v1.0.0-20200902074654-038fdea0a05b
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Version: v2.1.0
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Dependency : gopkg.in/fsnotify.v1
Version: v1.4.7
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Dependency : gopkg.in/gemnasium/logrus-airbrake-hook.v2
Version: v2.1.2
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Dependency : gopkg.in/jcmturner/aescts.v1
Version: v1.0.1
Licence type (autodetected): Apache-2.0

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Version: v3.0.0
Licence type (autodetected): Apache-2.0

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Dependency : k8s.io/klog/v2
Version: v2.2.0
Licence type (autodetected): Apache-2.0

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Dependency : k8s.io/kube-openapi
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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

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mgo - MongoDB driver for Go

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type: keyword
description: >
  Identifier of the related ICMP session.

- name: file.id
type: keyword
description: >
  An identifier associated with a single file that is related to this notice.

- name: file.parent_id
type: keyword
description: >
  Identifier associated with a container file from which this one was extracted.

- name: file.source
type: keyword
description: |
  An identification of the source of the file data. E.g. it may be a network protocol over which it was transferred, or a local file path which was read, or some other input source.

- name: file.mime_type
type: keyword
description: >
  A mime type if the notice is related to a file.

- name: file.is_orig
type: boolean
description: |
  If the source of this file is a network connection, this field indicates if the file is being sent by the originator of the connection or the responder.

- name: file.seen_bytes
type: long
description: >
  Number of bytes provided to the file analysis engine for the file.
- name: ffile.total_bytes
type: long
description:>
    Total number of bytes that are supposed to comprise the full file.

- name: file.missing_bytes
type: long
description:|
    The number of bytes in the file stream that were completely missed during the process of analysis.

- name: file.overflow_bytes
type: long
description:|
    The number of bytes in the file stream that were not delivered to stream file analyzers. This could be overlapping bytes or bytes that couldn't be reassembled.

- name: fuid
type: keyword
description:>
    A file unique ID if this notice is related to a file.

- name: note
type: keyword
description:>
    The type of the notice.

- name: msg
type: keyword
description:>
    The human readable message for the notice.

- name: sub
type: keyword
description:>
    The human readable sub-message.

- name: n
type: long
description:>
    Associated count, or a status code.

- name: peer_name
type: keyword
description:>
    Name of remote peer that raised this notice.
- name: peer_descr
type: text
description: >
  Textual description for the peer that raised this notice.

- name: actions
type: keyword
description: >
  The actions which have been applied to this notice.

- name: email_body_sections
type: text
description: |
  By adding chunks of text into this element, other scripts can expand on notices
  that are being emailed.

- name: email_delay_tokens
type: keyword
description: |
  Adding a string token to this set will cause the built-in emailing functionality
  to delay sending the email either the token has been removed or the email
  has been delayed for the specified time duration.

- name: identifier
type: keyword
description: >
  This field is provided when a notice is generated for the purpose of deduplicating notices.

- name: suppress_for
type: double
description: >
  This field indicates the length of time that this unique notice should be suppressed.

- name: dropped
type: boolean
description: >
  Indicate if the source IP address was dropped and denied network access.
processors:
- drop_fields:
  fields: ["json.actions"]
  ignore_missing: true
- rename:
  fields:
  - from: "json"
    to: "zeek.notice"
  - from: "zeek.notice.src"
    to: "source.address"
  - from: "zeek.notice.dst"
    to: "destination.address"
  - from: "zeek.notice.uid"
    to: "zeek.session_id"
  - from: "zeek.notice.p"
    to: "destination.port"
  - from: "zeek.notice.conn"
    to: "zeek.notice.connection_id"
  - from: "zeek.notice.icmp_id"
    to: "zeek.notice.icmp_id"
  - from: "zeek.notice.id.orig_h"
    to: "source.address"
  - from: "zeek.notice.id.orig_p"
    to: "source.port"
  - from: "zeek.notice.id.resp_h"
    to: "destination.address"
  - from: "zeek.notice.id.resp_p"
    to: "destination.port"
  - from: "zeek.notice.proto"
    to: "network.transport"
  - from: "zeek.notice.file.id"
    to: "zeek.notice.file.id"
- from: "zeek.notice.f.parent_id"
to: "zeek.notice.file.parent_id"

- from: "zeek.notice.f.source"
to: "zeek.notice.file.source"

- from: "zeek.notice.f.is_orig"
to: "zeek.notice.file.is_orig"

- from: "zeek.notice.f.seen_bytes"
to: "zeek.notice.file.seen_bytes"

- from: "zeek.notice.f.total_bytes"
to: "zeek.notice.file.total_bytes"

- from: "zeek.notice.file_mime_type"
to: "zeek.notice.file.mime_type"

ignore_missing: true
fail_on_error: false

- drop_fields:
  fields: ["zeek.notice.remote_location", "zeek.notice.f"]
  ignore_missing: true

- convert:
  fields:
  - {from: "zeek.session_id", to: "event.id"}
  - {from: "source.address", to: "source.ip", type: "ip"}
  - {from: "destination.address", to: "destination.ip", type: "ip"}
  - {from: "zeek.notice.file.total_bytes", to: "file.size"}
  - {from: "zeek.notice.file.mime_type", to: "file.mime_type"}
  - {from: "zeek.notice.note", to: "rule.name"}
  - {from: "zeek.notice.msg", to: "rule.description"}
  ignore_missing: true
  fail_on_error: false

- add_fields:
  target: event
  fields:
  kind: alert
  category:
    - intrusion_detection
  type:
  - info
  - community_id:
    - add_fields:
      target: ""
      fields:
      ecs.version: 1.9.0
func TestLicenseUnmarshal(t *testing.T) {
    tests := map[string]struct {
        lic  string
        want License
        failing bool
    }{
        "basic license": {
            lic: ``{"uid": "1234", "type": "basic", "status": "active"}``,
            want: License{UUID: "1234", Type: Basic, Status: Active},
        },
        "active enterprise": {
            lic: ``{"uid": "1234", "type": "enterprise", "status": "active"}``,
            want: License{UUID: "1234", Type: Enterprise, Status: Active},
        },
        "expired enterprise": {
            lic: ``{"uid": "1234", "type": "enterprise", "status": "expired"}``,
            want: License{UUID: "1234", Type: Enterprise, Status: Expired},
        },
        "trial": {
            lic: ``{"uid": "1234", "type": "trial", "status": "active", "expiry_date_in_millis": 1538060781728}``,
        },
    }
    // 2018-09-27 15:06:21.728 +0000 UTC
    lic: ``{"uid": "1234", "type": "trial", "status": "active", "expiry_date_in_millis": 1538060781728}``,
want: License{UUID: "1234", Type: Trial, Status: Active, ExpiryDate: time.Date(2018, 9, 27, 15, 6, 21, 728000000, time.UTC)},
},
}

for name, test := range tests {
    t.Run(name, func(t *testing.T) {
        got License
        if err := json.Unmarshal([]byte(test.lic), &got); err != nil {
            if !test.failing {
                t.Fatal(err)
            }
            return
        }
        if test.failing {
            t.Fatal("expected license to be invalid")
        }
        assert.Equal(t, test.want, got)
    })
})
}

func TestIsExpired(t *testing.T) {
    expired := true
    tests := map[string]struct {
        license License
        want bool
    }{
        "trial is expired": {
            license: License{Type: Trial, ExpiryDate: time.Now().Add(-2 * time.Hour)},
            want: expired,
        },
        "trial is not expired": {
            license: License{Type: Trial, ExpiryDate: time.Now().Add(2 * time.Minute)},
            want: !expired,
        },
        "license is not on trial": {
            license: License{Type: Basic, ExpiryDate: time.Now().Add(2 * time.Minute)},
            want: !expired,
        },
        "state is expired": {
            license: License{Type: Enterprise, Status: Expired},
            want: expired,
        },
        "active enterprise license": {
    }
}
for name, test := range tests {
    t.Run(name, func(t *testing.T) {
        assert.Equal(t, test.want, IsExpired(test.license))
    })
}

{{- define "depInfo" -}}
{{- range $i, $dep := . }}
{{ $dep.Name }},{{ $dep.URL }},{{ $dep.Version | canonicalVersion }},{{ $dep.Version | revision }},{{ $dep.LicenceType }}
{{- end -}}
{{- end -}}
name,url,version,revision,license,sourceURL{{ template "depInfo" .Direct }}{{ template "depInfo" .Indirect }}

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module_version: 1.0

var:
- name: paths
default:
  - /var/log/bro/current/notice.log
os.linux:
  - /var/log/bro/current/notice.log
os.darwin:
  - /usr/local/var/logs/current/notice.log
- name: tags
default: [zeek.notice]

ingest_pipeline: ingest/pipeline.yml
input: config/notice.yml

requires.processors:
- name: geoip
  plugin: ingest-geoip

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// Code generated by beats/dev-tools/cmd/license/license_generate.go - DO NOT EDIT.

package licenses

import "fmt"

var ASL2 =`
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package licenser

import (    "encoding/json"    "fmt"    "time"
)

// License represents the license of this beat, the license is fetched and returned from
// the Elasticsearch cluster.
//
// The x-pack endpoint returns the following JSON response.
//
// {
//   "status": "active",
//   "uid": "cbff45e7-c553-41f7-ae4f-9205eabd80xx",
//   "type": "trial"
// "issue_date" : "2018-10-20T22:05:12.332Z",
// "issue_date_in_millis" : 1540073112332,
// "expiry_date_in_millis" : 1542665112332,
// "max_nodes" : 1000,
// "issued_to" : "test",
// "issuer" : "elasticsearch",
// "start_date_in_millis" : -1
// }
// }
// Definition:
// type is the installed license.
// mode is the license in operation. (effective license)
// status is the type installed is active or not.
type License struct {
    UUID       string      `json:"uid"
    Type       LicenseType `json:"type"
    Status     State       `json:"status"
    ExpiryDate time.Time   `json:"expiry_date_in_millis,omitempty"
}

func (l *License) UnmarshalJSON(b []byte) error {
    document := struct {
        UUID       string      `json:"uid"
        Type       LicenseType `json:"type"
        Status     State       `json:"status"
        ExpiryDate int64       `json:"expiry_date_in_millis,omitempty"
    }{
    }
    if err := json.Unmarshal(b, &document); err != nil {
        return err
    }

    var expiryTime time.Time
    if document.ExpiryDate != 0 {
        expiryTime = time.Unix(0, int64(time.Millisecond)*int64(document.ExpiryDate)).UTC()
    } else if document.Type == Trial {
        return fmt.Errorf("missing expiry_date_in_millis on trial license")
    }

    *l = License{
        UUID:       document.UUID,
        Type:       document.Type,
        Status:     document.Status,
        ExpiryDate: expiryTime,
    }
    return nil
}
// Cover returns true if the provided license is included in the range of license.
//
// Basic -> match basic, gold and platinum
// gold -> match gold and platinum
// platinum -> match platinum only
func (l *License) Cover(license LicenseType) bool {
if l.Type >= license {
    return true
}
return false
}

// IsExpired checks if the installed Elasticsearch license is still valid.
func IsExpired(l License) bool {
    return l.Status == Expired || (l.Type == Trial && time.Now().After(l.ExpiryDate))
}

// EqualTo returns true if the two license are the same, we compare license to reduce the number
// message send to the watchers.
func (l *License) EqualTo(other *License) bool {
    return l.UUID == other.UUID &&
l.Type == other.Type &&
l.Status == other.Status
}

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Posted Date: April 20, 2018

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1.1657 bone v1.3.0

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1.1658 go-ldap-ldap v3.1.3

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1.1659 jackson-xc 2.10.5

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1.1678 lumberjack 1.0.13

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1.1680 lucene-expressions 7.7.0

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    analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
    analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
    analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt

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analysis/common/src/java/org/apache/lucene/analysis/es/SpanishMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
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1.1681 jackson-dataformat-yaml 2.12.1
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set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1

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code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while
preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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"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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(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.

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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.

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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.

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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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d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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* $ ./checkTag tag
* checkTag validates tags of following format : v[0-9].[0-9].[0-9]{any}
* The tag is then compared to zstd version number.
* They are compatible if first 3 digits are identical.
* Anything beyond that is free, and doesn't impact validation.
* Example : tag v1.8.1.2 is compatible with version 1.8.1
* When tag and version are not compatible, program exits with error code 1.
* When they are compatible, it exists with a code 0.
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* /opt/ cola/ permits/1028387514_1607186847.25/0/error-prone-annotations-2-2-0-sources-2-
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Most GNU software, including some libraries, is covered by the ordinary
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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.

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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
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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest
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4. You may copy and distribute the Library (or a portion or
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medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
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5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also 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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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.

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its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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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.)

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
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1.1705 golangci-go-tools v0.0.0-20190318055746-e32c54105b7c

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1.1710 checkpolicy 2.5-8.el7

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1.1716 perl 5.16.3 294.el7_6

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From f5488561bdaab57380bf07e8e66778503a41aca3 Mon Sep 17 00:00:00 2001
From: Father Chrysostomos <sprout@cpan.org>
Date: Sun, 23 Sep 2012 12:42:15 -0700
Subject: [PATCH] =?UTF-8?q?Don=E2=80=99t=20leak=20if=20hh=20copying=20dies?==
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit

When %^H is copied on entering a new scope, if it happens to have been tied it can die. This was resulting in leaks, because no protections were added to handle that case.

The two things that were leaking were the new hash in hv_copy_hints_hv and the new value (for an element) in newSVsv.

By fixing newSVsv itself, this also fixes any potential leaks when
other pieces of code call newSVsv on explosive values.

Petr Pisar: Ported to 5.16.3
---
hv.c | 6 ++++++
sv.c | 7 +++++--
t/op/svleak.t | 22 ++++++++++++++++++++++-
3 files changed, 31 insertions(+), 4 deletions(-)

diff --git a/hv.c b/hv.c
index 3c35341..29d6352 100644
--- a/hv.c
+++ b/hv.c
@@ -1440,6 +1440,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
            riter = HvRITER_get(ohv);
            eiter = HvEITER_get(ohv);
+        ENTER;
+        SAVEFREESV(hv);
+        while (hv_max && hv_max + 1 >= hv_fill * 2)
+            hv_max = hv_max / 2;
        HvMAX(hv) = hv_max;
@@ -1461,6 +1464,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
            HvRITER_set(ohv, riter);
            HvEITER_set(ohv, eiter);
+        SvREFCNT_inc_simple_void_NN(hv);
+        LEAVE;
    }

Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
const 132 riter = HvRITER_get(ohv);
HE * const eiter = HvEITER_get(ohv);

+SAVEFREESV(hv);
+while (hv_max && hv_max + 1 >= hv_fill * 2)
    hv_max = hv_max / 2;
HvMAX(hv) = hv_max;
@@ -1461,6 +1464,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
}
HvRITER_set(ohv, riter);
HvEITER_set(ohv, eiter);
+SVREFCNT_inc_simple_void_NN(hv);
+LEAVE;
}

hv_magic(hv, NULL, PERL_MAGIC_hints);
return hv;

diff --git a/sv.c b/sv.c
index a43feac..597d71b 100644
--- a/sv.c
+++ b/sv.c
@@ -8764,11 +8764,12 @@ Perl_newSVsv(pTHX_ register SV *const old)
        return NULL;
    /* Do this here, otherwise we leak the new SV if this croaks. */
    +SvGETMAGIC(old);
    new_SV(sv);
    /* SV_GMAGIC is the default for sv_setv() */
-   /* SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games
+   /* SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games
      with SvTEMP_off and SvTEMP_on round a call to sv_setsv. */

-    sv_setsv_flags(sv, old, SV_GMAGIC | SV_NOSTEAL);
+    sv_setsv_flags(sv, old, SV_NOSTEAL);
    return sv;
}

diff --git a/t/op/svleak.t b/t/op/svleak.t
index 2f09af3..011c184 100644
--- a/t/op/svleak.t
+++ b/t/op/svleak.t
@@ -13,7 +13,7 @@ BEGIN {
 or skip_all("XS::APItest not available");
 }

-pipe tests =&gt; 23;
+pipe tests =&gt; 24;

 # run some code N times. If the number of SVs at the end of loop N is
 # greater than (N-1)*delta at the end of loop 1, we've got a leak
@@ -176,3 +176,23 @@ leak(2, 0, sub {
 each %$h;
      undef$h;
 }, 'tied hash iteration does not leak');
+  +# [perl #107000]
+package hhtie {
+    +sub TIEHASH { bless [] }
+    +sub STORE    { $_[0][0]{$_[1]} = $_[2] }
+    +sub FETCH    { die if $explosive; $_[0][0]{$_[1]} }
+    +sub FIRSTKEY { keys %{$_[0][0]}; each %{$_[0][0]} }
+    +sub NEXTKEY  { each %{$_[0][0]} }
+  +}
+leak(2,!!$Config{mad}, sub {
+    eval q`
+    BEGIN {
+        $hhtie::explosive = 0;
+        tie %H, hhtie;
+        %H{foo} = bar;
+        $hhtie::explosive = 1;
+    }
+    { 1; }
+    `;
+ }, 'hint-hash copying does not leak');
--
1.8.1.4

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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---

abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>.'
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3
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This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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use strict;
use lib 't/lib';
use MBTest;
use DistGen;

plan 'no_plan';

# Ensure any Module::Build modules are loaded from correct directory
blib_load('Module::Build');

my $dist = DistGen->new(
   name => 'Simple::Name',
   version => '0.01',
   license => 'perl'
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'perl',
   "license 'perl' is valid" );

my $meta = $mb->get_metadata( fatal => 0 );
is( $meta->{license} => 'perl',
   "META license will be 'perl'" );
is( $meta->{resources}{license}, "http://dev.perl.org/licenses/",
   "META license URL is correct" );

my $dist = DistGen->new(
   name => 'Simple::Name',
   version => '0.01',
   license => 'perl',
   version => '0.01',
   license => 'perl' };


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2006-Jan-27

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1.1726 bash 4.2.46 34.el7

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548129_1591379747.05/0/perl-parent-0.237-1.el8.src.rpm-cosi-expand-archive-Q995NCX6/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/ws_local/PERMITS_SQL/1009548129_1591379747.05/0/perl-parent-0.237-1.el8.src.rpm-cosi-expand-archive-Q995NCX6/parent-0.237.tar.gz-cosi-expand-archive-VnAWPUbE/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:

```perl
package MySecondPlugin;
require './plugins/custom.plugin'; # contains Plugin::Custom
use parent -norequire, 'Plugin::Custom';
```

=head1 HISTORY

This module was forked from `base` to remove the cruft that had accumulated in it.

=head1 CAVEATS

=head1 SEE ALSO

`base`

=head1 AUTHORS AND CONTRIBUTORS

Rafaël Garcia-Suarez, Bart Lateur, Max Maischein, Anno Siegel, Michael Schwern

=head1 MAINTAINER

Max Maischein <corion@cpan.org>

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=cut

Found in path(s):
* `/opt/ws_local/PERMITS_SQL/1009548129_1591379747.05/0/perl-parent-0.237-1.el8.src.rpm-cosi-expand-archive-Q995NCX6/parent-0.237.tar.gz-cosi-expand-archive-VnAWPUUbE/parent-0.237/lib/parent.pm`

1.1737 dosfs-tools 3.0.20 9.el7

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* /opt/cola/permits/1154536554_1618863768.29/0/useproject-fsnotify-v1-4-9-0-g71155eb-tar-gz/useproject-fsnotify-71155eb/integration_test.go
* /opt/cola/permits/1154536554_1618863768.29/0/useproject-fsnotify-v1-4-9-0-g71155eb-tar-gz/useproject-fsnotify-71155eb/inotify.go
* /opt/cola/permits/1154536554_1618863768.29/0/useproject-fsnotify-v1-4-9-0-g71155eb-tar-gz/useproject-fsnotify-71155eb/kqueue.go

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* /opt/cola/permits/1154536554_1618863768.29/0/useproject-fsnotify-v1-4-9-0-g71155eb-tar-gz/useproject-fsnotify-71155eb/inotify_poller_test.go
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* /opt/cola/permits/1154536554_1618863768.29/0/useproject-fsnotify-v1-4-9-0-g71155eb-tar-gz/useproject-fsnotify-71155eb/fsnotify_test.go

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* /opt/cola/permits/1154536554_1618863768.29/0/useproject-fsnotify-v1-4-9-0-g71155eb-tar-gz/useproject-
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* /opt/cola/permits/1156482937_1628615980.76/0/spring-integration-mongodb-4-2-12-release-sources-jar/org/springframework/integration/mongodb/store/MessageDocumentFields.java
* /opt/cola/permits/1156482937_1628615980.76/0/spring-integration-mongodb-4-2-12-release-sources-jar/org/springframework/integration/mongodb/store/MongoDbChannelMessageStore.java
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1.1759 perl-digest 1.17-395.el8

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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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* /opt/cola/permits/1178584724_1625692385.64/0/perl-Digest-1.17-395.el8-1.src.rpm-cosi-expand-archive-DqGAurecV/Digest-1.17.tar.gz-cosi-expand-archive-dGj02A0m/Digest-1.17/README

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=head1 NAME

Digest - Modules that calculate message digests

=head1 SYNOPSIS

$md5  = Digest->new("MD5");
$sha1 = Digest->new("SHA-1");
$sha256 = Digest->new("SHA-256");
$sha384 = Digest->new("SHA-384");
$sha512 = Digest->new("SHA-512");

$hmac = Digest->HMAC_MD5($key);

=head1 DESCRIPTION

The C<Digest::> modules calculate digests, also called "fingerprints" or "hashes", of some data, called a message. The digest is (usually) some small/fixed size string. The actual size of the digest depend of the algorithm used. The message is simply a sequence of arbitrary bytes or bits.

An important property of the digest algorithms is that the digest is I<likely> to change if the message change in some way. Another property is that digest functions are one-way functions, that is it should be I<hard> to find a message that correspond to some given digest. Algorithms differ in how "likely" and how "hard", as well as how efficient they are to compute.

Note that the properties of the algorithms change over time, as the algorithms are analyzed and machines grow faster. If your application for instance depends on it being "impossible" to generate the same digest for a different message it is wise to make it easy to plug in stronger algorithms as the one used grow weaker. Using the interface documented here should make it easy to change algorithms later.

All C<Digest::> modules provide the same programming interface. A functional interface for simple use, as well as an object oriented interface that can handle messages of arbitrary length and which can read files directly.
The digest can be delivered in three formats:

- **over 8**

- **item I<binary>**

  This is the most compact form, but it is not well suited for printing or embedding in places that can't handle arbitrary data.

- **item I<hex>**

  A twice as long string of lowercase hexadecimal digits.

- **item I<base64>**

  A string of portable printable characters. This is the base64 encoded representation of the digest with any trailing padding removed. The string will be about 30% longer than the binary version. L<<MIME::Base64>> tells you more about this encoding.

The functional interface is simply importable functions with the same name as the algorithm. The functions take the message as argument and return the digest. Example:

```
use Digest::MD5 qw(md5);
$digest = md5($message);
```

There are also versions of the functions with "_hex" or "_base64" appended to the name, which returns the digest in the indicated form.

=head1 OO INTERFACE

The following methods are available for all C<Digest::> modules:

- **over 4**

- **item $ctx = Digest->XXX($arg,...)**

- **item $ctx = Digest->new(XXX => $arg,...)**

- **item $ctx = Digest::XXX->new($arg,...)**

  The constructor returns some object that encapsulate the state of the message-digest algorithm. You can add data to the object and finally
ask for the digest. The "XXX" should of course be replaced by the proper name of the digest algorithm you want to use.

The two first forms are simply syntactic sugar which automatically load the right module on first use. The second form allow you to use algorithm names which contains letters which are not legal perl identifiers, e.g. "SHA-1". If no implementation for the given algorithm can be found, then an exception is raised.

If new() is called as an instance method (i.e. $ctx->new) it will just reset the state the object to the state of a newly created object. No new object is created in this case, and the return value is the reference to the object (i.e. $ctx).

=item $other_ctx = $ctx->clone

The clone method creates a copy of the digest state object and returns a reference to the copy.

=item $ctx->reset

This is just an alias for $ctx->new.

=item $ctx->add( $data )

=item $ctx->add( $chunk1, $chunk2, ... )

The string value of the $data provided as argument is appended to the message we calculate the digest for. The return value is the $ctx object itself.

If more arguments are provided then they are all appended to the message, thus all these lines will have the same effect on the state of the $ctx object:

$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 )

=item $ctx->add_bits( $bitstring )

The add_bits() method is an alternative to add() that allow partial bytes to be appended to the message. Most users should just ignore this method as partial bytes is very unlikely to be of any practical use.

The two argument form of add_bits() will add the first $nbits bits from $data. For the last potentially partial byte only the high order $nbits % 8 >> bits are used. If $nbits is greater than $ctx->add($data) 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("xF0xA0", 12);

Most digest algorithms are byte based and for these it is not possible to add bits that are not a multiple of 8, and the add_bits() method will croak if you try.

=item $ctx->digest

Return the binary digest for the message.

Note that the C<digest> operation is effectively a destructive, read-once operation. Once it has been performed, the $ctx object is automatically C<reset> and can be used to calculate another digest.
value. Call $ctx->clone->digest if you want to calculate the digest without resetting the digest state.

=item $ctx->hexdigest

Same as $ctx->digest, but will return the digest in hexadecimal form.

=item $ctx->b64digest

Same as $ctx->digest, but will return the digest as a base64 encoded string.

=head1 Digest speed

This table should give some indication on the relative speed of different algorithms. It is sorted by throughput based on a benchmark done with of some implementations of this API:

<table>
<thead>
<tr>
<th>Algorithm</th>
<th>Size</th>
<th>Implementation</th>
<th>MB/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>MD4</td>
<td>128</td>
<td>Digest::MD4 v1.3</td>
<td>165.0</td>
</tr>
<tr>
<td>MD5</td>
<td>128</td>
<td>Digest::MD5 v2.33</td>
<td>98.8</td>
</tr>
<tr>
<td>SHA-256</td>
<td>256</td>
<td>Digest::SHA2 v1.1.0</td>
<td>66.7</td>
</tr>
<tr>
<td>SHA-1</td>
<td>160</td>
<td>Digest::SHA v4.3.1</td>
<td>58.9</td>
</tr>
<tr>
<td>SHA-1</td>
<td>160</td>
<td>Digest::SHA1 v2.10</td>
<td>48.8</td>
</tr>
<tr>
<td>SHA-256</td>
<td>256</td>
<td>Digest::SHA v4.3.1</td>
<td>41.3</td>
</tr>
<tr>
<td>Haval-256</td>
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<td>Adler-32</td>
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</tr>
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<td>CRC-CCITT</td>
<td>16</td>
<td>Digest::CRC v0.05</td>
<td>0.8</td>
</tr>
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</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.

=head1 SEE ALSO
L<Digest::Adler32>, L<Digest::CRC>, L<Digest::Haval256>, L<Digest::HMAC>, L<Digest::MD2>, L<Digest::MD4>, L<Digest::MD5>, L<Digest::SHA>, L<Digest::SHA1>, L<Digest::SHA2>, L<Digest::Whirlpool>

New digest implementations should consider subclassing from L<Digest::base>.

L<MIME::Base64>

http://en.wikipedia.org/wiki/Cryptographic_hash_function

=head1 AUTHOR

Gisle Aas <gisle@aas.no>

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=cut

Found in path(s):
* /opt/cola/permits/1178584724_1625692385.64/0/perl-Digest-1.17-395.el8-1.src.rpm-cosi-expand-archive-DqGAurcV/Digest-1.17.tar.gz-cosi-expand-archive-dGj02A0m/Digest-1.17/Digest.pm
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1178584724_1625692385.64/0/perl-Digest-1.17-395.el8-1.src.rpm-cosi-expand-archive-DqGAurcV/perl-Digest.spec
No license file was found, but licenses were detected in source scan.

license: perl

Found in path(s):
* /opt/cola/permits/1178584724_1625692385.64/0/perl-Digest-1.17-395.el8-1.src.rpm-cosi-expand-archive-DqGAurcV/Digest-1.17.tar.gz-cosi-expand-archive-dGj02A0m/Digest-1.17/META.yml

1.1760 gpgme 1.10.0 6.el8.0.1
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That's all there is to it!

1.1761 python-setuptools 41.0.1
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1.1762 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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# This is a Makefile stub which handles the creation of BSD shared libraries.
# In order to use this stub, the following makefile variables must be defined.
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)

(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../*.$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \`
  'echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
*/
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
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Theodore Ts'o
23-June-2007

------------------------------------------------------------------

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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.1763 javax-ws-rs-api 2.1.1

1.1764 mergo v0.3.5
1.1764.1 Available under license:
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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.1765 perl-pathtools 3.74-1.el8
1.1765.1 Available under license:
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=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 \File::Spec::Unix\, which contains the entire set, and which is inherited by the modules for other platforms. For further information, please see \File::Spec::Mac\, \File::Spec::OS2\, \File::Spec::Win32\, or \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.

device
.tmpdir
.splitpath
.splitdir
catpath
.abs2rel
.rel2abs
case_tolerant

All the functions may be imported using the \查看全文

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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

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 */

/*
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 * SUCH DAMAGE.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548107_1591379771.91/0/perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/lib/File/Spec/Functions.pm

No license file was found, but licenses were detected in source scan.

/*
 *----------------------------------------------------------------------
 * pport.h -- Perl/Pollution/Portability Version 3.39
 */
Open Source Used In APIC-SE-BATMAN 2.1.1d  24710

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 `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 `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 `--patch` or `--copy` are given, the default is to simply print the diffs for each file. This requires either `Text::Diff` or a `diff` program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use `Text::Diff`, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell `ppport.h` to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of `ppport.h` if you intend to be backward compatible only down to a certain Perl version.

=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 --nodia

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 P<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 P<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<brisk> in your source code before the inclusion of P<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<brisk>.

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>
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</tr>
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<td>PL_signals</td>
<td>NEED_PL_signals</td>
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<td>SvRX()</td>
<td>NEED_SvRX</td>
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<td>NEED_newSV_type_GLOBAL</td>
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<tr>
<td>newSVpvn_flags()</td>
<td>NEED_newSVpvn_flags</td>
<td>NEED_newSVpvn_flags_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_share()</td>
<td>NEED_newSVpvn_share</td>
<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<\#define> macro. Just \#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
perl ppport.h --nochanges
```

You can specify a different `diff` program or options, using the `--diff` option:

```perl
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
perl ppport.h --copy=.new
```

To display portability information for the `newSVpvn` function, use:

```perl
perl ppport.h --api-info=newSVpvn
```

Since the argument to `--api-info` can be a regular expression, you can use

```perl
perl ppport.h --api-info=/_nomg$/
```

to display portability information for all `/_nomg/` functions or

```perl
perl ppport.h --api-info=/./
```

to display information for all known API elements.

=head1 BUGS

If this version of `ppport.h` is causing failure during the compilation of this module, please check if newer versions of either this module or `Devel::PPPort` are available on CPAN before sending a bug report.

If `ppport.h` was generated using the latest version of `Devel::PPPort` and is causing failure of this module, please file a bug report here: L<https://github.com/mhx/Devel-PPPort/issues/>

Please include the following information:

=over 4

=head1 OPEN SOURCE USED IN APIC-SE-BATMAN 2.1.1d 24716

Open Source Used In APIC-SE-BATMAN 2.1.1d 24716
=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2013, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '{^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }  

my $VERSION = 3.39;
my %opt = (
  quiet => 0,
  diag => 1,
  hints => 1,
  changes => 1,
  cplusplus => 0,
  filter => 1,
  strip => 0,
  version => 0,
);

my($ppport) = $0 =~ /\([\w.]+)\$/;
my $LF = '(?:\r\n|\[\r\n\])';   # line feed
my $HS = "[ \t\]";             # horizontal whitespace

# Never use C comments in this file!
my $ccs = '/'.'*';
my $cce = '*'.'/';
my $rcs = 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\n" if $r != 5;
die "Invalid version number: $opt{\'compat-version\'}\n" if $v >= 1000 || $s >= 1000;
$opt{\'compat-version\'} = sprintf "%03d%03d\n", $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\n ASCII_TO\n AvFILLp\n AvFILL\n BhkDISABLE\n BhkENABLE\n BhkENTRY_set\n BhkENTRY\n BhkFLAGS\n CALL_BLOCK_HOOKS\n CLASS\n C_PERLscope\n CX_CURPAD\n CX_CURPAD\n C_ARRAY\n C_ARRAY\n C_ARRAY\n CopFILEAV\n CopFILEGV_set\n CopFILEGV\n CopFILESV\n CopFILE_set\n CopFILE\n CopSTASHPV_set\n CopSTASHPV\n CopSTASH_eq\n CopSTASH_set\n CopSTASH\n CopyD\n CvPADLIST\n CvSTASH\n)
CvWEAKOUTSIDEN
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ERRSVN5.004050\nEXTERN\nF0convertN\nFREETMPSNN
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GROK_NUMERIC_RADIXN5.007002\nG_ARRAY\nG_DISCARD\nG_EVAL\nG_METHODN5.006001\nG_NOARGS\nG_SCALAR\nG_VOIDN5.004000\nGetVarsNN
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SVt_PVGV
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SvGETMAGIC
SvGROW
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SvIsCOW
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SvLEN
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<th>Value</th>
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<td>SvNVX</td>
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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
}
undef $function;
}
else {
$function->[1] .= $_;

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function = [$1, ""] if m{^DPPP \(my\((_w+)\))};

$replace = $1 if m{^\s*$rccc\s+Replace:\s+\(\d+\)\s+$rcce\s*\}$;
$replace{S2} = $1 if $replace and m{^\s*$\#s*define\s+\(\w+\)\(\?!\(\{[^}\]\})\)\s+\(\w+\)\});
$replace{S2} = $1 if m{^\s*$\#s*define\s+\(\w+\)\(\?!\(\{[^}\]\})\)\s+\(\w+\)\).*$rccs\s+Replace\s+$rcce};
$replace{S1} = $2 if m{^\s*$rccc\s+Replace \(\w+\) with \(\w+\)\s+$rcce\s*\}$;

if (m{^\s*$rccc\s+\(\w+\(\w+\)*\)\s+\s+\(\w+\(\w+\)*\)\s+$rcce\s*\})
    my @deps = map { s/\s+///g; $_ } split /, /, $3;
    my $d;
    for $d (map { s/\s+///g; $_ } split /, /, $1) {
        push @{$depends{$_}}, @deps;
    }

$need{S1} = 1 if m{^\s*#\s*define\s+(\w+\s+GLOBAL)\s+\(\w+\)\s+$rcce\s*\}$;

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(\', ', @{$depends{$_}}), "\n" if exists $depends{$_};
            print "\n\nWARNING:\n\n\nWARNING:\n\n$warnings{$_}" if exists $warnings{$_};
            $info++;
        }
    }
}

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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
";
    }
    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 quotem'] is not a file.
        }
        else {
            my @new = grep { -f } glob $_
                or warn quotem] does not exist.
            push @files, grep { !$seen{$_}++ } @new;
        }
    }
} else { eval {
        require File::Find;
        File::Find::find(sub {
            $File::Find::name =~ /($srcext)/i
            "$ File::Find::name"
        } );
    }
}
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]*

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my $func;

for $func (keys %API) {
  my $match = $func;
  $match .= "|$revreplace{$func}" if exists $revreplace{$func};
  if ($c =~ /(?:Perl_)?($match)/) {
    $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}{todo}) {
      $file{uses_todo}{$func}++; if ($c =~ /\b$func\b/) {
    }
  } else { warning("Possibly wrong \#define $1 in $filename") }
}

while ($c =~ /^\#define\s+(\w(\w+)?(_GLOBAL)?)\s+\$/mg) {
  if (exists $need{$2}) {
    $file{defined 'needed_global'}{$_}++;
  } 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;
}
}
}

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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/$func/) {$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'");  
    $pp = qf("#include '$ppport'\n")
}

if ($pp) {
$file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*/$1$ppp/ms)
  || ($c =~ s/^!(=\$HS*#$HS*include.\^Q$pppport\(E\)/Spp/m)
  || ($c =~ s/^(!=\$HS*#$HS*include.\*XSUB.\^s.*\)/$1Spp/m)
  || ($c =~ s/^/$pp/);
}
}
else {
  if ($file{has_inc_ppport}) {
    diag("No need to include "$pppport";
    $file{changes} += ($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$s)" : ";
info("Analysis completed$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") {
            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+)\.(\d+)/) {
    return ($1, $2, $3);
  } elseif ($ver !~ /^\d+\.[\d_\+]+$/) {
    die "cannot parse version '$ver'
    
  } else {
    $ver =~ s/_//g;
    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\d+\.(\d\d\d)\.(\d\d\d)/;
    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
      if ($s % 10) {
        die "cannot parse version '$ver\n";
return ($r, $v, $s);

sub format_version
{
    my $ver = shift;

    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /([\d]+)(\d{3})(\d{3})/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "invalid version "$ver"n";
        }
        $s /= 10;

        $ver = sprintf "%d.%03d", $r, $v;
        $s > 0 and $ver .= sprintf "_.%02d", $s;

        return $ver;
    }

    return sprintf "%d.%d.%d", $r, $v, $s;
}

sub info
{
    $opt{quiet} and return;
    print @_, "\n";
}

sub diag
{
    $opt{quiet} and return;
    $opt{diag} and print @_, "\n";
}

sub warning
{
    $opt{quiet} and return;
    print "*** ", @_, "\n";
}
sub error
{
print "*** ERROR: ", @_, "\n";
}
my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
my $warn = $warnings{$func};
$warn =~ s!^!*** !mg;
print "*** WARNING: $func\n", $warn;
$rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;
print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE
exit 2;
}
sub strip
{
my $self = do { local(@ARGV,$/)=($0); <> };

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my($copy) = $self =~ /<head\d+COPYRIGHT(.*?)>=\w+/ms;
$copy =~ s/^(?=\S+)/    /gms;
$self =~ s/\$HS+'Do NOT edit.*?(?=^-)/$copy/ms;
$self =~ s/\$SKIP.*?(?=^__DATA__)/\$SKIP
if (@ARGV && $ARGV[0] eq '--unstrip') {
    eval { require Devel::PPPort; }
\$@ and die "Cannot require Devel::PPPort, please install.\n"
if (eval \$Devel::PPPort::VERSION < $VERSION) {
    die "$0 was originally generated with Devel::PPPort \$VERSION.\n"
    "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\n"
    "Please install a newer version, or --unstrip will not work.\n"
} }
Devel::PPPort::WriteFile($0);
exit 0;
} print <<<END;

Sorry, but this is a stripped version of \$0.

To be able to use its original script and doc functionality,
please try to regenerate this file using:

\$^X \$0 --unstrip

END

my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
$c =~ s{
    / (?: \*[\^[^\*]*\*+(?:[^c]+\*+)* / | /[^\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: $!";
print OUT "$pl$c
";
exit 0;
}

__DATA__
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548107_1591379771.91/0/perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-
=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.

$pathname = 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.

```perl
$case容忍 = File::Spec->case_tolerant();
```

=item file_name_is_absolute

Takes as its argument a path, and returns true if it is an absolute path.

```perl
$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.

```perl
@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.

```perl
($volume,$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
=head1 AUTHOR

Currently maintained by Ken Williams C<< <KWILLIAMS@cpan.org> >>.

The vast majority of the code was written by
Kenneth Albanowski C<< <kjahds@kjahds.com> >>,
Andy Dougherty C<< <doughera@lafayette.edu> >>,
Andreas Koenig 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> >>.
abts2rel() 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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it under the same terms as Perl itself.

=cut

---

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/ws_local/PERMITS_SQL/1009548107_1591379771.91/0/perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/META.yml

No license file was found, but licenses were detected in source scan.

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Please submit bug reports and patches to perlbug@perl.org.

=head1 SEE ALSO

L<File::Spec>

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548107_1591379771.91/0/perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/lib/File/Spec/Unix.pm

No license file was found, but licenses were detected in source scan.

=head1 NAME

File::Spec::OS2 - methods for OS/2 file specs
SYNOPSIS

require File::Spec::OS2; # Done internally by File::Spec if needed

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).

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AUTHORS
See the authors list in "File::Spec". Mac OS support by Paul Schinder <schinder@pobox.com> and Thomas Wegner <wegner_thomas@yahoo.com>.

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=head1 SEE ALSO

See L"File::Spec" and L"File::Spec::Unix". This package overrides the implementation of these methods, not the semantics.

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548107_1591379771.91/0/perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/lib/File/Spec/Mac.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Cwd - get pathname of current working directory

=head1 SYNOPSIS

use Cwd;
my $dir = getcwd;

use Cwd 'abs_path';
my $abs_path = abs_path($file);

=head2 getcwd and friends

Each of these functions are called without arguments and return the absolute path of the current working directory.
=over 4

=item getcwd

    my $cwd = getcwd();

Returns the current working directory. On error returns C<undef>, with C<$!> set to indicate the error.

Exposes the POSIX function getcwd(3) or re-implements it if it's not available.

=item cwd

    my $cwd = cwd();

The cwd() is the most natural form for the current architecture. For most systems it is identical to `pwd` (but without the trailing line terminator).

=item fastcwd

    my $cwd = fastcwd();

A more dangerous version of getcwd(), but potentially faster.

It might conceivably chdir() you out of a directory that it can't chdir() you back into. If fastcwd encounters a problem it will return undef but will probably leave you in a different directory. For a measure of extra security, if everything appears to have worked, the fastcwd() function will check that it leaves you in the same directory that it started in. If it has changed it will C<die> with the message "Unstable directory path, current directory changed unexpectedly". That should never happen.

=item fastgetcwd

    my $cwd = fastgetcwd();

The fastgetcwd() function is provided as a synonym for cwd().

=item getdcwd

    my $cwd = getdcwd();
    my $cwd = getdcwd('C:');

The getdcwd() function is also provided on Win32 to get the current working
directory on the specified drive, since Windows maintains a separate current working directory for each drive. If no drive is specified then the current drive is assumed.

This function simply calls the Microsoft C library _getdcwd() function.

=head2 abs_path and friends

These functions are exported only on request. They each take a single argument and return the absolute pathname for it. If no argument is given they'll use the current working directory.

=item abs_path

my $abs_path = abs_path($file);

Uses the same algorithm as getcwd(). Symbolic links and relative-path components ("." and "..") are resolved to return the canonical pathname, just like realpath(3). On error returns C<undef>, with C<$!> set to indicate the error.

=item realpath

my $abs_path = realpath($file);

A synonym for abs_path().

=item fast_abs_path

my $abs_path = fast_abs_path($file);

A more dangerous, but potentially faster version of abs_path.

=head2 $ENV{PWD}

If you ask to override your chdir() built-in function,

use Cwd qw(chdir);

then your PWD environment variable will be kept up to date. Note that it will only be kept up to date if all packages which use chdir import
it from Cwd.

=head1 NOTES

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.

Maintained by Ken Williams <KWILLIAMS@cpan.org>

=head1 COPYRIGHT

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 Portions of the C code in this library are copyright (c) 1994 by the Regents of the University of California. All rights reserved. The license on this code is compatible with the licensing of the rest of the distribution - please see the source code in F<Cwd.xs> for the details.

=head1 SEE ALSO

L<File::chdir>

=cut

Found in path(s):
No license file was found, but licenses were detected in source scan.

=head2 Note For File::Spec::Win32 Maintainers

Novell NetWare inherits its File::Spec behaviour from File::Spec::Win32.

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=head1 SEE ALSO

See L<File::Spec> and L<File::Spec::Unix>. This package overrides the
implementation of these methods, not the semantics.

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548107_1591379771.91/0/perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/Cwd.pm

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=head1 SEE ALSO

See L<File::Spec> and L<File::Spec::Unix>. This package overrides the
implementation of these methods, not the semantics.

An explanation of VMS file specs can be found at
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AUTHOR

o.flebbe@gmx.de

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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.

License: (GPL+ or Artistic) and BSD
1.1766 perl-threads 2.21 2.el8

1.1766.1 Available under license:

No license file was found, but licenses were detected in source scan.

---
abstract: 'Perl interpreter-based threads'
author:
- 'Artur Bergman, Jerry D. Hedden <jdhedden AT cpan DOT org>'
buildRequires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: threads
no_index:
directory:
  - t
  - inc
requires:
  Carp: '0'
  Config: '0'
  ExtUtils::testlib: '0'
  Hash::Util: '0'
  IO::File: '0'
  Test::More: '0'
  XSLoader: '0'
  overload: '0'
  strict: '0'
  warnings: '0'
  version: '2.21'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548107_1591379771.91/0/perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqImf9/perl-PathTools.spec

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.

peria.......

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

--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 `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 `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 `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.
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>
<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>
</tbody>
</table>
newSV_type()              NEED_newSV_type              NEED_newSV_type_GLOBAL
newSVpvn_flags()          NEED_newSVpvn_flags          NEED_newSVpvn_flags_GLOBAL
newSVpvn_share()          NEED_newSVpvn_share          NEED_newSVpvn_share_GLOBAL
pv_display()              NEED_pv_display              NEED_pv_display_GLOBAL
pv_escape()               NEED_pv_escape               NEED_pv_escape_GLOBAL
pv_pretty()               NEED_pv_pretty               NEED_pv_pretty_GLOBAL
sv_2pv_flags()            NEED_sv_2pv_flags            NEED_sv_2pv_flags_GLOBAL
sv_2pbyte()               NEED_sv_2pbyte               NEED_sv_2pbyte_GLOBAL
sv_catpvf_mg()            NEED_sv_catpvf_mg            NEED_sv_catpvf_mg_GLOBAL
sv_catpvf_mg_nocontext()  NEED_sv_catpvf_mg_nocontext  NEED_sv_catpvf_mg_nocontext_GLOBAL
sv_pvn_force_flags()      NEED_sv_pvn_force_flags      NEED_sv_pvn_force_flags_GLOBAL
sv_setpvf_mg()            NEED_sv_setpvf_mg            NEED_sv_setpvf_mg_GLOBAL
sv_setpvf_mg_nocontext()  NEED_sv_setpvf_mg_nocontext  NEED_sv_setpvf_mg_nocontext_GLOBAL
sv_unmagicext()           NEED_sv_unmagicext           NEED_sv_unmagicext_GLOBAL
vload_module()            NEED_vload_module            NEED_vload_module_GLOBAL
vnewSVpvf()               NEED_vnewSVpvf               NEED_vnewSVpvf_GLOBAL
warner()                  NEED_warner                  NEED_warner_GLOBAL

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:

```plaintext
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:

```plaintext
perl ppport.h --nochanges
```

You can specify a different `diff` program or options, using the `--diff` option:

```plaintext
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:

```plaintext
perl ppport.h --copy=.new
```

To display portability information for the `newSVpvn` function, use:

```plaintext
perl ppport.h --api-info=newSVpvn
```

Since the argument to `--api-info` can be a regular expression, you can use

```plaintext
perl ppport.h --api-info=/_nomg$/
```

to display portability information for all `C<_nomg>` functions or

```plaintext
perl ppport.h --api-info=//
```

to display information for all known API elements.

=head1 BUGS

If this version of `ppport.h` is causing failure during the compilation of this module, please check if newer versions of either this module or `Devel::PPPort` are available on CPAN before sending a bug report.

If `ppport.h` was generated using the latest version of `Devel::PPPort` and is causing failure of this module, please file a bug report here: L<https://github.com/mhx/Devel-PPPort/issues/>
Please include the following information:

=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.

=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 = '[ ]\s+';             # horizontal whitespace

# Never use C comments in this file!
my $ccs = '/\.*';
my $cce = '\*/*/';
my $rcce = quotemeta $ccs;
my $rccs = 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'}"
else
    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.003d.003d", $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|n
AvvFILLp|5.004050|p
AvvFILL||
BhkDISABLE||5.021008|
BhkENABLE||5.021008|
BhkENTRY_set||5.021008|
BhkENTRY||
BhkFLAGS||
CALL_BLOCK_HOOKS||
CLASS||
CPERLScope|5.005000|p
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CX_CURPAD_SV||
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CopFILEGV_set|5.006000|p
CopFILEGV|5.006000|p
CopFILESV|5.006000|p
CopFILE_set|5.006000|p
CopFILE|5.006000|p
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CopyD|5.009002|5.004050|p
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HvENAMEUTF8[5.015004]
HvENAME[5.013007]
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PAD_COMPNAME_GEN_set||
PAD_COMPNAME_GEN||
PAD_COMPNAME_OURSTASH||
PAD_COMPNAME_PV||
PAD_COMPNAME_TYPE||
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PAD_SAVE_LOCAL||
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PAD_SETSV||
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PAD_SET_CUR||
PAD_SV||
PAD_SV||
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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 for finding APIs and generating replacements
$code =~ s{
  /(?:[^\*]*\*+(?:[^$ccs]\*+)* / | /[^\n]*)
  "[^\n]*\*+(?:[^$ccs]\*+)*" }
  /egsx;
grep { exists $API{$_} } $code =~ /\w+/mg;
while (<DATA>) {
  if ($hint) {
    my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
    if (m{\s*\* (.*?) \s*}) {
      for (@{$hint->[1]}) {
        $h->{$_} ||= '';  # suppress warning with older perls
        $h->{$_} .= "$1\n";
      }
    }
    else { undef $hint }
  }
  $hint = [S1, [split /,?s+/, S2]]
  if (m{\s*rcs\s+(Hint|Warning):\s+(\w+(?:,?\w+)*)}) {
    if ($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 = [S1, S2] if m{\s*\#define\s+(\w+)(?:\([^\)]*\))?\s+(.*)};
if ($function) {
  if (/\^/) {
    if (exists $API{$function->[0]} | $function->[1] !~ /DPPP_/) {
      my @n = find_api($function->[1]);
      push @{$depends{$function->[0]}}, @n if @n
    }
    undef $function;
  }
  else {
    $function->[1] .= \$_;
  }
}
function = [S1, ] if m\{^DPPP_\(my_\(\w+\)\)\};

$replace = S1 if m\{^\s*$rccs\+Replace:\s+(\w+)\+\s+rccce\s+$\};
$replace{S2} = S1 if $replace and m\{^\s*$rccs\+\(\w+\)\+\s+rccce\s+$\};
$replace{S2} = S1 if m\{^\s*$rccs\+Replace\(\w+\) with \(\w+\)\+\s+rccce\s+$\};
$replace{S1} = S2 if m\{^\s*$rccs\+Replace \(\w+\) with \(\w+\)\+\s+rccce\s+$\};

if (m\{^\s*$rccs\+depends\(\w+\)\+\s+rccce\s+$\}) { my @deps = map \{ s/\+//g; S_ \} split \./, S3;

my $d;
for $d (map \{ s/\+//g; S_ \} split \./, S1) { push @{$depends{$d}}, @deps;
}
}

$need{S1} = 1 if m\{^\#if\+defined\(NEED_\(\w+\)\+\(\w+\)\)\};
}

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: \njoin\(', ', @{$depends{$f}}\), \n\n" if exists $depends{$f};
      print "\nShints\{$_\}" if exists $hints{$f};
      print "\nWARNING: \n\nWarnings\{$_\}" if exists $warnings{$f};
      $info++;
    }
    if ("$info" or $info == 0) {
      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 @srext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srext = join '|', map { quotemeta $_ } @srext;

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 {
            $File::Find::name =~ /($srext)\$/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]*
| "[^"\\]*(?:\\.[^"\\]*)*"

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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/) {
        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) {
                    $file{uses}{$func} = \@deps;
                    for (@deps) {
                        $file{uses}{$_} = 0 unless exists $file{uses}{$_};
                    }
                }
            }
            if (exists $API{$func}{todo} && $API{$func}{todo} >= $opt{compat-version}) {
                if ($c =~ /\b$func\b/) {
                    $file{uses_todo}{$func}++;
                }
            }
        }
    }
}

while ($c =~ /^
    define \([^\*\^]*\)*
    \| \(\?:\^[^\*]*\^[^+]*\^[^+]+\^[^+]*\^+\| \([^r\*n]*\) )
})
} { defined $2 and push @ccom, $2;
    defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;

$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /\^SHS*\^SHS*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/) {
        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) {
                    $file{uses}{$func} = \@deps;
                    for (@deps) {
                        $file{uses}{$_} = 0 unless exists $file{uses}{$_};
                    }
                }
            }
            if (exists $API{$func}{todo} && $API{$func}{todo} >= $opt{compat-version}) {
                if ($c =~ /\b$func\b/) {
                    $file{uses_todo}{$func}++;
                }
            }
        }
    }
}

while ($c =~ /^
    define \([^\*\^]*\)*
    \| \(\?:\^[^\*]*\^[^+]*\^[^+]+\^[^+]*\^+\| \([^r\*n]*\) )
})
} { 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 {

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warning("Uses Perl_$func instead of $func");

$file{changes} += ($c =~ s{'\bPerl_$func('s*\b$THX_?)\b's*}'\b\$func\b/'$replace\b$func'/g);

for $func (sort keys %{$file{uses_replace}}) {
    warning("Uses $func instead of $replace{$func}");
    $file{changes} += ($c =~ s/'\b$func\b/'$replace\b$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/^\b$HS*#\bdefine$HS+NEED_$func\b.*$LF//mg);
    }
}

for $func (sort keys %{$file{needed_global}}) {
    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/^\b$HS*#\bdefine$HS+NEED_$func\b.*$LF//mg);
    }
}
$message = "No need to define NEED_${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);
}

$func{needs_inc_ppport} = keys %{$file{uses}};

if ($func{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'\n")
    $pp = qq(#include "$ppport\n")
}

if ($pp) {
    $file{changes} += ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+.*)^/\$1\$pp/ms)
if ($file{has_inc_ppport}) {
    diag("No need to include '$ppport'");
    $file{changes} += ($c =~ s/^$HS*?#$HS*include.*\Q$ppport\E.*?$LF//m);
}

else {
    if ($file{has_inc_ppport}) {
        diag("No need to include '$ppport'");
        $file{changes} += ($c =~ s/^$HS*?#$HS*include.*\Q$ppport\E.*?$SLF//m);
    }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$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}";
        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'";
  }
  $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;

$ver =~ s/$/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\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+SYNOPSIS\s*^\s*(.*)\s*^=/ms;
    my %M = ( 'I' => '*' );
    $usage =~ s/\s*perl\s+\S+/$^X $0/;
    $usage =~ s/\[A-Z]<(.*\>)\>/\$/M(1)$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+\$SUM\s*\^\s*(.*)\s*\^=/ms;
    my %M = ( 'I' => '*' );
    $usage =~ s/\s*perl\s+\S+//M(1)$M(1)/g;
    print "\nusage: $usage\n\nUsage: $usage\n\n";
}
$copy =~ s/^(?=$S+)/ /gms;
$self =~ s/$HS+Do NOT edit.*?(?=^-)/$copy/ms;
$self =~ s/$^__DATA__$/SKIP
if (@ARGV && $ARGV[0] eq '--unstrip') {
    eval { require Devel::PPPort; }
    $@ and die "Cannot require Devel::PPPort, please install.
" if (eval Devel::PPPort::VERSION < $VERSION) {
        die "$0 was originally generated with Devel::PPPort $VERSION.
    " Your Devel::PPPort is only version $Devel::PPPort::VERSION.
    " Please install a newer version, or --unstrip will not work.
};
Devel::PPPort::WriteFile('$0');
exit 0;
} print <<END;
Sorry, but this is a stripped version of $0.
To be able to use its original script and doc functionality,
please try to regenerate this file using:

$^X $0 --unstrip
END

my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
$c =~ s{
    / (?<=\[^\]*\[^\]*\[^\]*\[^\]*\[^\]*\[^\]*\[^\]*\[^\]*\[^\]*\[^\]*\[^\]*\[^\]*\[^\]*\[^\]*\[^\]*\[^\]*)\n    | ([^\r\n]*)\n    | ('[^"\\]*'\n    | [^'\\]*'\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: $!
";
print OUT "$pl$c
";
exit 0;
}

__DATA__
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

=head1 NAME

threads - Perl interpreter-based threads

=head1 VERSION

This document describes threads version 2.21

=head1 WARNING

The "interpreter-based threads" provided by Perl are not the fast, lightweight system for multitasking that one might expect or hope for. Threads are implemented in a way that make them easy to misuse. Few people know how to use them correctly or will be able to provide help.

The use of interpreter-based threads in perl is officially L<discouraged|perlpolicy/discouraged>.

=head1 SYNOPSIS

use threads ('yield',
    'stack_size' => 64*4096,
    'exit' => 'threads_only',
    'stringify');

sub start_thread {
    my @args = @_;;
    print("Thread started: ", join(" ", @args), ":n");
}
my $thr = threads->create('start_thread', 'argument');
$thr->join();

threads->create(sub { print("I am a thread\n"); })->join();

my $thr2 = async { foreach (@files) { ... } };
$thr2->join();
if (my $err = $thr2->error()) {
    warn("Thread error: $err\n");
}

# Invoke thread in list context (implicit) so it can return a list
my ($thr) = threads->create(sub { return (qw/a b c/); });
# or specify list context explicitly
my $thr = threads->create( { 'context' => 'list' },
    sub { return (qw/a b c/); });
my @results = $thr->join();
$thr->detach();

# Get a thread's object
$thr = threads->self();
$thr = threads->object($tid);

# Get a thread's ID
$tid = threads->tid();
$tid = $thr->tid();
$tid = "$thr";

# Give other threads a chance to run
threads->yield();
yield();

# Lists of non-detached threads
my @threads = threads->list();
my $thread_count = threads->list();
my @running = threads->list(threads::running);
my @joinable = threads->list(threads::joinable);

# Test thread objects
if ($thr1 == $thr2) {
    ...
}

# Manage thread stack size
$stack_size = threads->get_stack_size();
$old_size = threads->set_stack_size(32*4096);

# Create a thread with a specific context and stack size
my $thr = threads->create({
    'context'    => 'list',
    'stack_size' => 32*4096,
    'exit'       => 'thread_only' },
    \&foo);

# Get thread's context
my $wantarray = $thr->wantarray();

# Check thread's state
if ($thr->is_running()) {
    sleep(1);
}
if ($thr->is_joinable()) {
    $thr->join();
}
# Send a signal to a thread
$thr->kill('SIGUSR1');

# Exit a thread
threads->exit();

=head1 DESCRIPTION

Since Perl 5.8, thread programming has been available using a model called
I<Interpreter threads> which provides a new Perl interpreter for each
thread, and, by default, results in no data or state information being shared
between threads.

(Prior to Perl 5.8, I<5005threads> was available through the C<Thread.pm> API.
This threading model has been deprecated, and was removed as of Perl 5.10.0.)

As just mentioned, all variables are, by default, thread local. To use shared
variables, you need to also load 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<new()> method is an alias for C<create()>.

=item $thr->join()

This will wait for the corresponding thread to complete its execution. When the thread finishes, C<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<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
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 $threads object for the $active thread associated with the specified thread ID. If C<$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 $threads objects. In a scalar context, returns a count of the same.

With a $true argument (using C<threads::running>), returns a list of all non-joined, non-detached $threads objects that are still running.

With a $false argument (using C<threads::joinable>), returns a list of all non-joined, non-detached $threads objects that have finished running (i.e., for which C<-E<gt>join()> will not $block).

=item $thr1->equal($thr2)

Tests if two threads objects are the same thread or not. This is overloaded to the more natural forms:

    if ($thr1 || $thr2) {
        print("Threads are the same\n");
    }

    # or
    if ($thr1 !|| $thr2) {
print("Threads differ\n");
}

(Thread comparison is based on thread IDs.)

=item async BLOCK;

C<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 C<threads-E<gt>create()>, C<async> returns a I<threads> object.

=item $thr->error()

Threads are executed in an C<eval> context. This method will return C<undef> if the thread terminates I<normally>. Otherwise, it returns the value of C<$@> associated with the thread's execution status in its C<eval> context.

=item $thr->_handle()

This I<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 C<HANDLE> value returned by C<CreateThread> (i.e., C<HANDLE *>); for other platforms, it is a pointer to the C<pthread_t> structure used in the C<pthread_create> call (i.e., C<pthread_t *>).

This method is of no use for general Perl threads programming. Its intent is to provide other (XS-based) thread modules with the capability to access, and possibly manipulate, the underlying thread structure associated with a Perl thread.

=item threads->_handle()

Class method that allows a thread to obtain its own 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-\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-\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-\gt\exit()>. In other words, with this setting, calling C<exit()> causes only the thread to terminate.

Because of its global effect, this setting should not be used inside modules or the like.

The I<main> thread is unaffected by this setting.

=item threads->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 C<$thr-E<gt>join()> will not I<block>.

=item $thr->is_detached()

Returns true if the thread has been detached.

=item threads->is_detached()

Class method that allows a thread to determine whether or not it is detached.

=back

=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 context: list, scalar or void. The thread's context is determined at thread creation. This is necessary so that the context is available to the entry point function via $wantarray(). The thread may then specify a value of the appropriate type to be returned from join().

=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 create() with a hash reference as the first argument:

    my $thr = threads->create({context => 'list'}, &foo);
    ...
    my @results = $thr->join();

In the above, the threads object is returned to the parent thread in scalar context, and the thread's entry point function $foo will be called in list (array) context such that the parent thread can receive a list (array) from the join() call. (C<array> is synonymous with C<list>.)

Similarly, if you need the threads object, but your thread will not be returning a value (i.e., void context), you would do the following:

    my $thr = threads->create({context => 'void'}, &foo);
    ...
    $thr->join();

The context type may also be used as the key in the hash reference followed by a true value:

    threads->create({scalar => 1}, &foo);
    ...
    my ($thr) = threads->list();
    my $result = $thr->join();

=head2 Implicit context

If not explicitly stated, the thread's context is implied from the context of the 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>:

PERL5_ITHREADS_STACK_SIZE=1048576
export PERL5_ITHREADS_STACK_SIZE
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 C<-E<gt>create()> with a hash reference as the first argument:

my $thr = threads->create({'stack_size' => 32*4096},
&foo, @args);

=item $thr2 = $thr1->create(FUNCTION, ARGS)

This creates a new thread (C<$thr2>) that inherits the stack size from an existing thread (C<$thr1>). This is shorthand for the following:

my $stack_size = $thr1->get_stack_size();
my $thr2 = threads->create({'stack_size' => $stack_size},
FUNCTION, ARGS);
When safe signals is in effect (the default behavior - see L:</"Unsafe signals"> for more details), then signals may be sent and acted upon by individual threads.

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:

$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 I<cancelling> a thread:

use threads;

sub thr_func
{
    # Thread 'cancellation' signal handler
    $SIG{'KILL'} = sub { threads->exit(); };

    ...
}

# Create a thread
my $thr = threads->create('thr_func');

# Signal the thread to terminate, and then detach
# it so that it will get cleaned up automatically
$thr->kill('KILL')->detach();

Here's another simplistic example that illustrates the use of thread signalling in conjunction with a semaphore to provide rudimentary 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->down();          # Thread suspended
        $sema->up();            # Thread resumes
    };

    ...
}

# Create a semaphore and pass it to a thread
my $sema = Thread::Semaphore->new();
my $thr = threads->create('thr_func', $sema);

# Suspend the thread
$sema->down();
$thr->kill('STOP');

...

# Allow the thread to continue
$sema->up();

CAVEAT: The thread signalling capability provided by this module does not
actually send signals via the OS. It 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
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).

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);

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.

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.

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.

Using non-thread-safe modules

Unfortunately, you may encounter Perl modules that are not L<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 `require` (and `import` if needed):

```perl
sub thr_func
{
    require Unsafe::Module
    # Unsafe::Module->import(...);

    ....
}
```

If the module is needed inside the `<main>` thread, try modifying your application so that the module is loaded (again using `require` and `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 [http://rt.cpan.org/Public/](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 `join()` or `detach()` them, for long-lived applications, it is better to maintain a pool of threads, and to reuse them for the work needed, using `Queue::Thread::Queue` to notify threads of pending work. The CPAN distribution of this module contains a simple example (`examples/pool_reuse.pl`) illustrating the creation, use and monitoring of a pool of 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 `chdir()`) will affect all the threads in the application.

On MSWin32, each thread maintains its own the current working directory setting.

=item Environment variables

Currently, on all platforms except MSWin32, all `system()` calls (e.g., using `system()` or back-ticks) made from threads use the environment variable settings from the `<main>` thread. In other words, changes made to `%ENV` in
To work around this, set environment variables as part of the \texttt{system} call. For example:

\begin{verbatim}
my $msg = 'hello';
system("FOO=$msg; echo \$FOO");  # Outputs 'hello' to STDOUT
\end{verbatim}

On MSWin32, each thread maintains its own set of environment variables.

=item Catching signals

Signals are caught by the main thread (thread ID = 0) of a script. Therefore, setting up signal handlers in threads for purposes other than \texttt{L</"THREAD SIGNALLING">} as documented above will not accomplish what is intended.

This is especially true if trying to catch \texttt{C<SIGALRM>\textgreater} in a thread. To handle alarms in threads, set up a signal handler in the main thread, and then use \texttt{L</"THREAD SIGNALLING">} to relay the signal to the thread:

\begin{verbatim}
# 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
\end{verbatim}

=item Parent-child threads

On some platforms, it might not be possible to destroy \texttt{parent} threads while there are still existing \texttt{child} threads.

=item Unsafe signals

Since Perl 5.8.0, signals have been made safer in Perl by postponing their
Safe signals is the default behavior, and the old, immediate, unsafe signalling behavior is only in effect in the following situations:

=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.

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 `BEGIN, UNITCHECK, CHECK, INIT and END` blocks in threads by using `require` or `eval` with the appropriate code. These `END` blocks will then be executed when the thread's interpreter is destroyed (i.e., either during a `join()` call, or at program termination).

However, calling any threads methods in such an `END` block will most likely fail (e.g., the application may hang, or generate an error) due to mutexes that are needed to control functionality within the threads module.

For this reason, the use of `END` blocks in threads is strongly discouraged.

=item Open directory handles

In perl 5.14 and higher, on systems other than Windows that do not support the `fchdir` function, directory handles (see `opendir`) will not be copied to new threads. You can use the `Config.pm` 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 threads

Support for threads extends beyond the code in this module (i.e., `threads.pm` and `threads.xs`), and into the Perl interpreter itself. Older versions of Perl contain bugs that may manifest themselves despite using the latest version of `threads` from CPAN. There is no workaround for this other than upgrading to the latest version of Perl.

Even with the latest version of Perl, it is known that certain constructs
with threads may result in warning messages concerning leaked scalars or unreferenced scalars. However, such warnings are harmless, and may safely be ignored.

You can search for L<threads> related bug reports at L<http://rt.cpan.org/Public/>. If needed submit any new bugs, problems, patches, etc. to: L<http://rt.cpan.org/Public/Dist/Display.html?Name=threads>

=head1 REQUIREMENTS

Perl 5.8.0 or later

=head1 SEE ALSO

threads on MetaCPAN:
L<https://metacpan.org/release/threads>

Code repository for CPAN distribution:
L<https://github.com/Dual-Life/threads>

L<threads::shared>, L<perlthrtut>

L<http://www.perl.com/pub/a/2002/06/11/threads.html> and

Perl threads mailing list:
L<http://lists.perl.org/list/ithreads.html>

Stack size discussion:
L<http://www.perlmonks.org/?node_id=532956>

Sample code in the I<examples> directory of this distribution on CPAN.

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threads is released under the same license as Perl.

=head1 ACKNOWLEDGEMENTS

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Helping me out tons, trying to find reasons for races and other weird bugs!

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Helping with debugging

Dean Arnold E<lt>darnold AT presicient DOT com<gt> -
Stack size API

=cut

Found in path(s):
No license file was found, but licenses were detected in source scan.

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Found in path(s):

1.1767 libgpg-error 1.12-3.el7atomix1

1.1767.1 Available under license :

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## Source Code

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1.1774 e2fsprogs 1.42.9-19.el7_9.0atomix1

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This is the Debian GNU/Linux prepackaged version of the translation files of the EXT2 file system utilities. The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:

tsx-11.mit.edu/pub/linux/packages/ext2fs/

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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image::$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \\
  `echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \\
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean:
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Theodore Ts'o
23-June-2007

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1.1776 zap v1.16.0

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1.1784 kubernetes-api v0.0.0-20181115043458-b799cb063522

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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
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
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lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
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lib/libgss/g_unseal.c
lib/libgss/g_userok.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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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
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
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1.1796 lz4-java 1.7.1

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1.1797 pcre 8.42 4.el8

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1.1798 spring-expression 5.1.9.RELEASE

1.1799 activation-api 1.2.2

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  * Creates a new JSRInliner. <i>Subclasses must not use this constructor</i>. Instead, they must use the
  * [ @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[]) ]
  * version.
  *
  * @param mv
  *    the <code>MethodVisitor</code> to send the resulting inlined method code to (use <code>null</code> for none).
  * @param access
  *    the method's access flags (see [ @link Opcodes ]). This parameter also indicates if the method is synthetic and/or
deprecated.
  * @param name
  *    the method's name.
  * @param desc
  *    the method's descriptor (see [ @link Type ]).
  * @param signature
  *    the method's signature. May be <tt>null</tt>.
  * @param exceptions
  *    the internal names of the method's exception classes (see
  *    [ @link Type#getName() getInternalName() ]). May be
  *    <tt>null</tt>.
* @throws IllegalStateException
* If a subclass calls this constructor.
*

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 */
/**
 * Constructs a new [Textifier](#Textifier). *Subclasses must not use this
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 *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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 */
/**
 * Creates a new [link GeneratorAdapter]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [link #GeneratorAdapter(int, MethodVisitor, int, String, String)]
 * version.
 *
 * @param mv
 * the method visitor to which this adapter delegates calls.
 *
 * @param access
 * the method's access flags (see [link Opcodes]).
* @param name
  * the method's name.
* @param desc
  * the method's descriptor (see [@link Type Type]).
* @throws IllegalStateException
  * If a subclass calls this constructor.
*/

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*/
/**
* Creates a new [AnalyzerAdapter]. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the
* [AnalyzerAdapter(int, String, int, String, String, MethodVisitor)]
* version.
*
* @param owner
*     the owner's class name.
* @param access
*     the method's access flags (see \{@link Opcodes\}).
* @param name
*     the method's name.
* @param desc
*     the method's descriptor (see \{@link Type Type\}).
* @param mv
*     the method visitor to which this adapter delegates calls. May be <tt>null</tt>.
* @throws IllegalStateException
*     If a subclass calls this constructor.
*/

Found in path(s):
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/**
 * Constructs a new [@link LocalVariableAnnotationNode]. <i>Subclasses must not use this constructor</i>. Instead, they must use the
 * { [@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
 * version.
 *
 * @param typeRef
 * a reference to the annotated type. See { [@link TypeReference].
 * @param typePath
 * the path to the annotated type argument, wildcard bound, array
 * element type, or static inner type within 'typeRef'. May be
 * <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 * @param start
 * the fist instructions corresponding to the continuous ranges
 * that make the scope of this local variable (inclusive).
 * @param end
 * the last instructions corresponding to the continuous ranges
 * that make the scope of this local variable (exclusive). This
 * array must have the same size as the 'start' array.
 * @param index
 * the local variable's index in each range. This array must have
 * the same size as the 'start' array.
 * @param desc
 * the class descriptor of the annotation class.
 */

Found in path(s):
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* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2.jar/org/objectweb/asm/item/InsnNode.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2.jar/org/objectweb/asm/item/Item.java
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@throws IllegalStateException
   If a subclass calls this constructor.
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/err/err.c

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/third_party/googletest/test/gtest/part_test.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/cares/cares/test/gmock-1.7.0/gtest/samples/prime_tables.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/cares/cares/test/gmock-1.7.0/gtest/include/gtest/gmock-param-util-generated.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/third_party/googletest/test/gtest-test-part_test.cc
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/iomgr/block_annotate.h
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/iomgr/surface_server.h
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar.gz/grpcio-1.12.1/src/core/lib/iomgr/udp_server.cc
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1.12.1/include/grpc/impl/codegen/sync_posix.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/tsi/fake_transport_security.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/iomgr/socket_windows.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/channel/channel_args.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/security/credentials/jwt/json_token.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/compression/algorithm_metadata.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/gpr/string.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/gpr/cpu_iphone.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/gpr/env_posix.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/iomgr/transport/transport.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/iomgr/transport/hpack_table.cc

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  1.12.1/third_party/boringssl/decrepit/des/cfb64ede.c
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/* gzguts.h -- zlib internal header definitions for gz* operations
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/* zutil.h -- internal interface and configuration of the compression library
 * Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
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 */

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/* inflate9.h -- internal inflate state definition
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 */

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/zlib/contrib/infback9/inflate9.h
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1.tar.gz/grpcio-1.12.1/third_party/boringssl/include/openssl/buffer.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1.tar.gz/grpcio-1.12.1/third_party/boringssl/crypto/fipsmodule/ec/util-64.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1.tar.gz/grpcio-1.12.1/third_party/boringssl/tool/generate_ed25519.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1.tar.gz/grpcio-1.12.1/third_party/boringssl/tool/rand.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1.tar.gz/grpcio-1.12.1/third_party/boringssl/crypto/curve25519/ed25519_test.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1.tar.gz/grpcio-1.12.1/third_party/boringssl/crypto/thread_test.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1.tar.gz/grpcio-1.12.1/third_party/boringssl/tool/genrsa.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1.tar.gz/grpcio-1.12.1/third_party/boringssl/crypto/test/file_test.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1.tar.gz/grpcio-1.12.1/third_party/boringssl/include/openssl/dtls1.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1.tar.gz/grpcio-1.12.1/third_party/boringssl/ssl/ssl_aead_ctx.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1.tar.gz/grpcio-1.12.1/src/boringssl/err_data.c

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// func cswap(inout *[5]uint64, v uint64)
TEXT ¬cswap(SB),7,$0
MOVQ inout+0(FP),DI
MOVQ v+8(FP),SI
CMPQ SI,$1
MOVQ 0(DI),SI
MOVQ 80(DI),DX
MOVQ 8(DI),CX
CMOVQEQ R9,R8
MOVQ SI,48(DI)
MOVQ DX,128(DI)
MOVQ CX,56(DI)
MOVQ R8,136(DI)
MOVQ 64(DI),SI
MOVQ 144(DI),DX
MOVQ 72(DI),CX
MOVQ 152(DI),R8
MOVQ SI,R9
CMOVQEQ DX,SI
CMOVQEQ R9,DX
MOVQ CX,R9
CMOVQEQ R8,CX
CMOVQEQ R9,R8
MOVQ SI,64(DI)
MOVQ DX,144(DI)
MOVQ CX,72(DI)
MOVQ R8,152(DI)
MOVQ DI,AX
MOVQ SI,DX
RET

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  1.12.1/third_party/boringssl/ssl/t1_enc.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/ssl/ssl_transcript.cc
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/cares/cares/ares_library_init.h

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/cares/cares/ares_parse_ns_reply.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/cares/cares/ares_query.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/cares/cares/ares_parse_ptr_reply.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/cares/cares/ares_free_hostent.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/cares/cares/ares_getenv.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/cares/cares/ares_getenv.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/cares/cares/ares_writev.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/cares/cares/ares_mkquery.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/cares/cares/ares_llist.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/cares/cares/ares_send.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/cares/cares/ares_writev.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/cares/cares/ares_strcmp.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/cares/cares/ares_strcmp.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/cares/cares/ares_search.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/cares/cares/ares_timeout.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/cares/cares/ares_create_query.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/cares/cares/ares_strdup.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/cares/cares/ares_strdup.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/cares/cares/ares__read_line.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/cares/cares/ares__close_sockets.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/cares/cares/ares_gethostbyaddr.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/cares/cares/ares_strerror.c
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/ssl/test/runner/curve25519/freeze_amd64.s
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/ssl/test/runner/poly1305/sum_amd64.s
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/ssl/test/runner/curve25519/mul_amd64.s
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/ssl/test/runner/curve25519/ladderstep_amd64.s
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/ssl/test/runner/curve25519/square_amd64.s
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/third_party/googletest/test/gtest-listener_test.cc
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/* zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.11, January 15th, 2017

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

*/

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 *
*/
/** Signal that the call is cacheable. GRPC is free to use GET verb */

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 */

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/ext/filters/client_channel/resolver/fake/fake_resolver.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/ext/filters/deadline/deadline_filter.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/ext/filters/deadline/deadline_filter.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/ext/filters/max_age/max_age_filter.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/ext/filters/client_channel/resolver/fake/fakeResolver.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/ext/filters/deadline/deadline_filter.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/ext/filters/client_channel/subchannel_index.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/tsi/altshandlerproto/altshandlerproto
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/transport/service_config.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/ext/filters/workarounds/workaround_utils.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
Utilities for constant-time cryptography.

* Author: Emilia Kasper (emilia@openssl.org)
* Based on previous work by Bodo Moeller, Emilia Kasper, Adam Langley
* (Google).

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/constant_time_test.cc
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/cares/cares/test/gmock-1.7.0/gtest/samples/sample10_unittest.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/third_party/gtest/samples/sample9_unittest.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/third_party/gtest/samples/sample10_unittest.cc
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/rand_extra/rand_extra.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/fipstools/test_fips.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/fipstools/cavp_test_util.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/fipstools/fipsmodule/is_fips.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/include/openssl/is_boringssl.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/err/internal.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/test/file_test_gtest.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/fipstools/cavp_aes_test.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/fipstools/cavp_aes_gcm_test.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/fipstools/cavp_ctr_drbg_test.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/fipstools/cavp_sha_test.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/fipstools/cavp_ecb_test.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/fipstools/cavp_cbc_test.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/fipstools/cavp_cfb_test.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/fipstools/cavp_ecbtest.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/fipstools/cavp_ecbtestv2.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/fipstools/cavp_gcm_test.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/fipstools/cavp_gcm_test_v2.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/fipstools/cavp_keytest.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/fipstools/cavp_keytest_v2.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/fipstools/cavp_keytestv2.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/fipstools/cavp_rsa2_test.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/fipstools/cavp_rsa2_sigver_test.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/fipstools/cavp_rsa2_sigver_v2_test.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/fipstools/cavp_rsa2_sigver_v2_test_v2.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/fipstools/cavp_rsa2_v2_test.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/fipstools/fipsmodule/is_fips.c
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/include/openssl/crypto.h
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/* blast.c
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 * version 1.3, 24 Aug 2013
 *
 * blast.c decompresses data compressed by the PKWare Compression Library.
 * This function provides functionality similar to the explode() function of
 * the PKWare library, hence the name "blast".
 *
 * This decompressor is based on the excellent format description provided by
 * Ben Rudiak-Gould in comp.compression on August 13, 2001. Interestingly, the
 * example Ben provided in the post is incorrect. The distance 110001 should
 * instead be 111000. When corrected, the example byte stream becomes:
 *
 * 00 04 82 24 25 8f 80 7f
 *
 * which decompresses to "AIAIAIAIAIAIA" (without the quotes).
 */

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/include/openssl/ex_data.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/fipsmodule/bn/gcd.c
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/internal.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/ex_data.c

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/ssl/d1_pkt.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/ssl/dtls_record.cc
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/third_party/googletest/scripts/common.py
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   Version 1.1, February 14h, 2010
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Changes

See header of unzip64.c

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/address_sorting/include/address_sorting/address_sorting.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/address_sorting/address_sorting.c
/* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12-1-1-tar-gz/grpcio-
1.12.1/third_party/address_sorting/address_sorting_internal.h
/* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12-1-1-tar-gz/grpcio-
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/* inffas8664.c is a hand tuned assembler version of inffast.c - fast decoding
/* version for AMD64 on Windows using Microsoft C compiler
*/
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// +build amd64,!gccgo,!appengine

// These constants cannot be encoded in non-MOVQ immediates.
// We access them directly from memory instead.

DATA ·_121666_213(SB)/8, $996687872
GLOBL ·_121666_213(SB), 8, $8

DATA ·_2P0(SB)/8, $0xFFFFFFFFFFFFDA
GLOBL ·_2P0(SB), 8, $8

DATA ·_2P1234(SB)/8, $0xFFFFFFFFFFFFE
GLOBL ·_2P1234(SB), 8, $8

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/* uncompr.c -- decompress a memory buffer
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/include/grpc/census.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/iomgr/ev_poll_posix.h
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/surface/completion_queue.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/include/grpc/grpc.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/surface/server.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/ext/filters/client_channel/resolver/sockaddr/sockaddr_resolver.cc

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/ssl/d1_lib.cc
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  * /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/x509v3/v3_sxnet.c
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  1.12.1/third_party/boringssl/crypto/pem/pem_xaux.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/boringssl/crypto/asn1/time_support.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/boringssl/crypto/pem/pem_x509.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/boringssl/crypto/x509/x509cset.c

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1.12.1/src/core/tsi/transport_security_adapter.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/iomgr/nameser.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/ext/transport/inproc/inproc_transport.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/compression/stream_compression_gzip.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/compression/stream_compression_gzip.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/iomgr/timer_manager.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/include/grpc/support/sync_custom.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/iomgr/is_epollexclusive_available.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/gprpp/inlined_vector.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/ext/filters/client_channel/backup_poller.cc

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1.12.1/src/core/ext/filters/client_channel/lib_policy/grpc_lb/grpc_lb_channel.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1.tar.gz/grpcio-
1.12.1/src/core/lib/compression/stream_compression_identity.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1.tar.gz/grpcio-
1.12.1/src/core/lib/compression/stream_compression_identity.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1.tar.gz/grpcio-
1.12.1/src/core/lib/compression/stream_compression.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1.tar.gz/grpcio-
1.12.1/src/core/lib/iomgr/gethostname_fallback.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1.tar.gz/grpcio-
1.12.1/src/core/ext/filters/client_channel/proxy_mapper_registry.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1.tar.gz/grpcio-
1.12.1/src/core/lib/iomgr/call_combiner.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1.tar.gz/grpcio-
1.12.1/src/core/lib/iomgr/iomgr_custom.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1.tar.gz/grpcio-
1.12.1/include/grpc/impl/codegen/fork.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1.tar.gz/grpcio-
1.12.1/include/grpc/impl/codegen/sync_custom.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1.tar.gz/grpcio-
1.12.1/include/grpc/impl/codegen/transport_security_adapter.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1.tar.gz/grpcio-
1.12.1/include/grpc/impl/codegen/transport_security_adapter_custom.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1.tar.gz/grpcio-
1.12.1/include/grpc/impl/codegen/transport_security_adapter_legacy.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1.tar.gz/grpcio-
1.12.1/include/grpc/impl/codegen/transport_security_adapter_legacy_custom.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1.tar.gz/grpcio-
1.12.1/include/grpc/impl/codegen/transport_security_adapter_legacy_internal.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1.tar.gz/grpcio-
1.12.1/include/grpc/transport/chttp2/transport/flow_control.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1.tar.gz/grpcio-
1.12.1/include/grpc/transport/chttp2/transport/flow_control_custom.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1.tar.gz/grpcio-
1.12.1/include/grpc/transport/chttp2/transport/flow_control_legacy.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1.tar.gz/grpcio-
1.12.1/include/grpc/transport/chttp2/transport/flow_control_legacy_custom.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1.tar.gz/grpcio-
1.12.1/include/grpc/transport/chttp2/transport/flow_control_legacy_internal.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1.tar.gz/grpcio-
1.12.1/include/grpc/transport/chttp2/transport/flow_control_release.h
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* /opt/cola/permissions/1160881901_1620412826.6/0/grpcio-1.12.1/third_party/cares/cares/test/gmock-1.7.0/scripts/generator/cpp/utils.py
* /opt/cola/permissions/1160881901_1620412826.6/0/grpcio-1.12.1/third_party/cares/cares/test/gmock-1.7.0/scripts/generator/cpp/keywords.py
* /opt/cola/permissions/1160881901_1620412826.6/0/grpcio-1.12.1/third_party/cares/cares/test/gmock-1.7.0/scripts/generator/cpp/ast.py

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/*
Additional tools for Minizip
Code: Xavier Roche '2004
License: Same as ZLIB (www.gzip.org)
*/

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/zlib/contrib/minizip/mztools.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/zlib/contrib/minizip/mztools.c
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  1.12.1/third_party/cares/cares/ares__expand_name.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/cares/cares/ares__get_hostent.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/cares/cares/ares_dns.h

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  1.12.1/third_party/boringssl/crypto/conf/conf_def.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/include/openssl/x509_vfy.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/include/openssl/asn1.h

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/* zip.h -- IO on .zip files using zlib
   Version 1.1, February 14th, 2010
   part of the MiniZip project - ( http://www.winimage.com/zLibDll/minizip.html )
   
   Copyright (C) 1998-2010 Gilles Vollant (minizip) ( http://www.winimage.com/zLibDll/minizip.html )
   
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   For more info read MiniZip_info.txt
   
   ---------------------------------------------------------------------------
   Condition of use and distribution are the same than zlib :
   
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   ---------------------------------------------------------------------------
   Changes
   
   See header of zip.h
   
   */

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  * /opt/cola/permits/1160881901_1620412826.60/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/zlib/contrib/minizip/zip.h
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/*
* puff.c
* Copyright (C) 2002-2013 Mark Adler
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* version 2.3, 21 Jan 2013
*
* puff.c is a simple inflate written to be an unambiguous way to specify the
* deflate format. It is not written for speed but rather simplicity. As a
* side benefit, this code might actually be useful when small code is more
* important than speed, such as bootstrap applications. For typical deflate
* data, zlib's inflate() is about four times as fast as puff(). zlib's
* inflate compiles to around 20K on my machine, whereas puff.c compiles to
* around 4K on my machine (a PowerPC using GNU cc). If the faster decode()
* function here is used, then puff() is only twice as slow as zlib's
* inflate().
*
* All dynamically allocated memory comes from the stack. The stack required
* is less than 2K bytes. This code is compatible with 16-bit int's and
* assumes that long's are at least 32 bits. puff.c uses the short data type,
* assumed to be 16 bits, for arrays in order to conserve memory. The code
* works whether integers are stored big endian or little endian.
*
* In the comments below are "Format notes" that describe the inflate process
* and document some of the less obvious aspects of the format. This source
* code is meant to supplement RFC 1951, which formally describes the deflate
* format:
*
* http://www.zlib.org/rfc-deflate.html
*/

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
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*/
Found in path(s):
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/cares/cares/ares.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/cares/cares/ares_init.c
No license file was found, but licenses were detected in source scan.

/* infback.c -- inflate using a call-back interface
 * Copyright (C) 1995-2016 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

Found in path(s):
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/zlib/infback.c
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* ====================================================================
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* (eay@cryptsoft.com). This product includes software written by Tim
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/include/openssl/ec.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/fipsmodule/ec/simple.c
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/fipsmodule/ec/ec_key.c
No license file was found, but licenses were detected in source scan.

/* gzlib.c -- zlib functions common to reading and writing gzip files
 * Copyright (C) 2004-2017 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

Found in path(s):
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1-1-tar-gz/grpcio-1.12.1/third_party/zlib/gzlib.c

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/fipsmodule/ec/p256-x86_64-table.h

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**# Label:** "GlobalSign Root CA"
**# Serial:** 4835703278459707669005204
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**# Subject:** CN=GlobalSign O=GlobalSign Root CA - R2
**# Label:** "GlobalSign Root CA - R2"
**# Serial:** 4835703278459707669005204
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-----END CERTIFICATE-----
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# Serial: 2066846962794723102542778780180966723415
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BTj0/VLZjmnz6BEF30jY+1xJ96rel8geMJQetslQFxq/H5COEBkEveeGeTTLg==
-----END CERTIFICATE-----
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# Label: "Baltimore CyberTrust Root"

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# Serial: 33554617

BEGIN CERTIFICATE-----
MIIDczCCAl+gAwIBAgIEAgAAuTANBgkqhkiG9w0BAQUFADBAMQswCQYDVQQGEwJQXZcvMTIwMjAwNjEwMB4XDTAwMDUxMjE4NDYwMFoXDTI1MDUxMjIzNTkwMFMwWwYDVQQDEw1SMEx0ZWFyY29yZG9yeSZpbGl0aWVzLjEwMCIGA1UEAwwlSWRkVHJ1c3QgRXh0ZXJuYWwgQ0ExMCBGCSQxNzpkMBoGCSqGSIb3DQEBCwUAA4IBAQCFDF2O5G9RaEIFoN27TyclhAO992T9Ldcw46Q0F+vaKSm5en2T929hkIt7qCyvYPmNhclOE0y7f1wkz3FvDB81ukM2IQS0GEA1Uo7G7yfueh1zksLt4a4mC9y54gC3eKQe5+n5auRZr4whK6ZQm2nZQl1f6eYs9HRCwBXbsdTLSR914liD-gdwyah617jvOeBHRndJELqYzmp-----END CERTIFICATE-----

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# Subject: CN=AddTrust External CA Root O=AddTrust AB OU=AddTrust External TTP Network
# Label: "AddTrust External Root"
# Serial: 1
# MD5 Fingerprint: 1d:35:54:04:85:78:b0:3f:42:4d:bf:20:73:0a:3f

BEGIN CERTIFICATE-----
MIIBszCCAx6gAwIBAgIEAgAAuTANBgkqhkiG9w0BAQUFADBbMQswCQYDVQQGEwJQXZcvMTIwMjAwNjEwMB4XDTAwMDUxMjE4NDYwMFoXDTI1MDUxMjIzNTkwMFMwWwYDVQQDEw1SMEx0ZWFyY29yZG9yeSZpbGl0aWVzLjEwMCIGA1UEAwwlSWRkVHJ1c3QgRXh0ZXJuYWwgQ0ExMCBGCSQxNzpkMBoGCSqGSIb3DQEBCwUAA4IBAQCFDF2O5G9RaEIFoN27TyclhAO992T9Ldcw46Q0F+vaKSm5en2T929hkIt7qCyvYPmNhclOE0y7f1wkz3FvDB81ukM2IQS0GEA1Uo7G7yfueh1zksLt4a4mC9y54gC3eKQe5+n5auRZr4whK6ZQm2nZQl1f6eYs9HRCwBXbsdTLSR914liD-gdwyah617jvOeBHRndJELqYzmp-----END CERTIFICATE-----

Success!
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-----END CERTIFICATE-----

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# Label: "Entrust Root Certification Authority"
# Serial: 11646660820
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# Subject: CN=Visa eCommerce Root O=VISA OU=VISA International Service Association
# Label: "Visa eCommerce Root"
# Serial: 259521807762858360480428890241505565794
# MD5 Fingerprint: fc:11:b8:d8:08:93:30:00:6d:23:f9:7e:eb:52:1e:02
# SHA256 Fingerprint:

-----BEGIN CERTIFICATE-----

MIIDojCCAoogAwIBAgIQE4Y1TR0/BvLB+wUFU1ZaCeYjANBgkqkhiG9w0BAQUFADBrMQswCQYDVQQGEwJVUzENMAsGA1UEChMEVklTQTEvMC0GA1UECxMmVmlzYSBjbS9cm5hdGlvd&DgkqhkiG9w0BAQUFADBdMQswCQYDVQQGEwJVUzENMAsGA1UEChMEVklTQTEvMC0GA1UECxMmVmlzYSBjbS9cm5hdGlvd&

-----BEGIN CERTIFICATE-----

# Issuer: CN=AAA Certificate Services O=Comodo CA Limited

-----END CERTIFICATE-----
# Subject: CN=AAA Certificate Services O=Comodo CA Limited
# Label: "Comodo AAA Services root"
# Serial: 1
# SHA256 Fingerprint:


-----BEGIN CERTIFICATE-----
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smP9WIsgrRqAEFQ7TMd5XnPapYbgs==
-----END CERTIFICATE-----

# Issuer: CN=QuoVadis Root Certification Authority O=QuoVadis Limited OU=Root Certification Authority
# Subject: CN=QuoVadis Root Certification Authority O=QuoVadis Limited OU=Root Certification Authority
# Label: "QuoVadis Root CA"
# Serial: 985026699
# MD5 Fingerprint: 27:de:fe:72:bb:07:00:03:00:9d:df:4f:01:e4:04:24
# SHA256 Fingerprint:

-----BEGIN CERTIFICATE-----
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-----END CERTIFICATE-----
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-----END CERTIFICATE-----
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-----END CERTIFICATE-----
# Issuer: O=SECOM Trust.net OU=Security Communication RootCA1
# Subject: O=SECOM Trust.net OU=Security Communication RootCA1
# Label: "Security Communication Root CA"
# Serial: 0
# SHA256 Fingerprint:
-----BEGIN CERTIFICATE-----
# SHA256 Fingerprint:
-----BEGIN CERTIFICATE-----
---END CERTIFICATE----
ReYNyicsbkbqWletNw+vHX/bvZ8=
-----END CERTIFICATE-----

# Issuer: O=Starfield Technologies, Inc. OU=Starfield Class 2 Certification Authority
# Subject: O=Starfield Technologies, Inc. OU=Starfield Class 2 Certification Authority
# Label: "Starfield Class 2 CA"
# Serial: 0
# SHA1 Fingerprint: ad:7e:1c:28:b0:64:ef:8f:60:03:40:20:14:c3:0d:e3:70:be:5b:8a
# SHA256 Fingerprint:
-----BEGIN CERTIFICATE-----
MIIEzCCAvegAwIBAgIBADANBgkqhkiG9w0BAQUFADBoMQswCQYDVQQGEwJVUzEl
MCMGA1UEChMcU3RhcmZpZWxkIFRlY2hub2xvZ2llcGxwSW5jLiEyMDAGA1UECmc
U3RhcmZpZWxkIENsYXNzIDQ2Y2VydGlmaWNhdGVib3BlXRob3JpdHMwIHNhcmQx
MjIvMjAwNDEyMzEyLTQxMi4xNzEwNi4xNzEyLTEyMDEyMjMzOC4xNzEyMjMyMD
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-----BEGIN CERTIFICATE-----
MIIFcjCCA1qgAwIBAgIQH51ZWtcvwgZEpYAIaeNe9jANBgkqhkiG9w0BAQUFADA/
MQswCQYDVQQGEwJVUzElMCMGA1UEChMcU3RhcmZpZWxkIFRlY2hub2xvZ2llcGxw
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-----END CERTIFICATE-----

# Issuer: O=Government Root Certification Authority
# Subject: O=Government Root Certification Authority
# Label: "Taiwan GRCA"
# Serial: 0
# SHA1 Fingerprint: ad:7e:1c:28:b0:64:ef:8f:60:03:40:20:14:c3:0d:e3:70:be:5b:8a
# SHA256 Fingerprint:
-----BEGIN CERTIFICATE-----
MIIEzCCAvegAwIBAgIBADANBgkqhkiG9w0BAQUFADBoMQswCQYDVQQGEwJVUzEl
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-----BEGIN CERTIFICATE-----
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-----END CERTIFICATE-----

# Issuer: O=Government Root Certification Authority
# Subject: O=Government Root Certification Authority
# Label: "Taiwan GRCA"
# Serial: 0
# SHA1 Fingerprint: ad:7e:1c:28:b0:64:ef:8f:60:03:40:20:14:c3:0d:e3:70:be:5b:8a
-----BEGIN CERTIFICATE-----
MIIEzCCAvegAwIBAgIBADANBgkqhkiG9w0BAQUFADBoMQswCQYDVQQGEwJVUzEl
MCMGA1UEChMcU3RhcmZpZWxkIFRlY2hub2xvZ2llcGxwSW5jLiEyMDAGA1UECmc
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-----BEGIN CERTIFICATE-----
MIIEzCCAvegAwIBAgIBADANBgkqhkiG9w0BAQUFADBoMQswCQYDVQQGEwJVUzEl
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ZwIENsYXNzIDQ2Y2VydGlmaWNhdGVib3BlXRob3JpdHMwIHNhcmQxMjIvMjAwNX

-----END CERTIFICATE-----

--- End of file ---

Open Source Used in APIC-SE-BATMAN 2.1.1d 25347
PzELMakGA1UEBhMCVFxcMDAABuNgNVBAoMJD0vdVymb1lbmQgUm9vdCBDXZJ0aWZpY2F0aW9uIENldGUvcmV0YTFCAiCA0wwgTA0ggYDQ8WzAAMGExMCcGA1UEAwMmY29ubmVzcyBDaXVzaW9uIENlbnRha25lcyBdIzANBgkqhkiG9w0BAQUFAdCBwggEiMA0GCSqGSIb3DQEBCwUAA4IBAOgDQr2KX7R/859w+H230M7i/1Bn1mGhC8Oc57h/0tN6M0Lz0bfoBIyj1sVpm7+U/bPY0ij30y9OOG0mz3v3laA6GcCtqK8v/jHCDgkV6t3W/12QvP3D67GvB2x5O4qgQjD5pGn2zv3W3z+AOGj1QvT/5b3PZcrW3j3j85y1v03B6f3d28xHihA3VrT9s067fvs/9G3Dc/4kxKvYzZfYDp/HjH4H782eT8GJwVj6gXyv29Q/NcI2O06U8gXWUzH4dOY7/juRw7KH+7N6nDZ1XAYsGJfz6D9i7DqXNkC62nWbT8a3R57r+r0QBYhLbq0s/m6C3Sb/5r5gY7zvy3/k7H4qgYj8SfzEJd0Zl9e3k9j5Y9dW1N4ZBjOOPQA/wqUmFhGjW6U560kAv58fWU00ZG challenged during an attack by an attacker. The use of a certificate ensures that the user is communicating with the intended server and not a malicious one.

--- END CERTIFICATE ---

# Issuer: CN=DigiCert Assured ID Root CA O=DigiCert Inc OU=www.digicert.com
# Subject: CN=DigiCert Assured ID Root CA O=DigiCert Inc OU=www.digicert.com
# Label: "DigiCert Assured ID Root CA"
# Serial: 17154717934120587862167794914071425081
# MD5 Fingerprint: 87:ce:0b:7b:2a:0e:49:00:1a:58:71:9b:37:a8:93:72
---- BEGIN CERTIFICATE -----

--- END CERTIFICATE ---
# Issuer: CN=DigiCert Global Root CA O=DigiCert Inc OU=www.digicert.com
# Subject: CN=DigiCert Global Root CA O=DigiCert Inc OU=www.digicert.com
# Label: "DigiCert Global Root CA"
# Serial: 1094471959895204037495183296374945346
# SHA256 Fingerprint:

# Issuer: CN=DigiCert High Assurance EV Root CA O=DigiCert Inc OU=www.digicert.com
# Subject: CN=DigiCert High Assurance EV Root CA O=DigiCert Inc OU=www.digicert.com
# Label: "DigiCert High Assurance EV Root CA"
# Serial: 3553400076410547919724730734378100087

-----END CERTIFICATE-----
# SHA256 Fingerprint:

# Issuer: CN=Class 2 Primary CA O=Certplus
# Subject: CN=Class 2 Primary CA O=Certplus
# Label: "Certplus Class 2 Primary CA"
# Serial: 17777020804593404024146876048832759043

-----BEGIN CERTIFICATE-----

---END CERTIFICATE-----
Network/(c) 2006 VeriSign, Inc. - For authorized use only

# Label: "VeriSign Class 3 Public Primary Certification Authority - G5"
# Serial: 33037644167568058970164719475676101450

----BEGIN CERTIFICATE-----
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-----END CERTIFICATE-----

# Issuer: CN=SecureTrust CA O=SecureTrust Corporation
# Subject: CN=SecureTrust CA O=SecureTrust Corporation
# Label: "SecureTrust CA"
# Serial: 17199774589125277788362750714266862032

----BEGIN CERTIFICATE-----
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-----END CERTIFICATE-----
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-----END CERTIFICATE-----

# Issuer: CN=COMODO ECC Certification Authority O=COMODO CA Limited
# Subject: CN=COMODO ECC Certification Authority O=COMODO CA Limited
# Label: "COMODO ECC Certification Authority"
# Serial: 415782838670866926382569215897097398090
# SHA256 Fingerprint:
-----BEGIN CERTIFICATE-----

# Issuer: CN=OISTE WISeKey Global Root GA O=OISTE Foundation
# Subject: CN=OISTE WISeKey Global Root GA O=OISTE Foundation
Endorsed
# Label: "OISTE WISEKey Global Root GA"
# Serial: 8671887787113315909008555911823548314
# SHA256 Fingerprint:
-----BEGIN CERTIFICATE-----
MIID8TCCAtmgAwIBAgIQQT1yx/Rrh4Fdf1hHSKTFtmmjANBgkqhkiG9w0BAQUFADCB
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---END CERTIFICATE-----

# Issuer: CN=Certigna O=Dhimyotis
# Subject: CN=Certigna O=Dhimyotis
# Label: "Certigna"
# Serial: 183648029742094962175
# SHA256 Fingerprint:
-----END CERTIFICATE-----

Open Source Used In APIC-SE-BATMAN 2.1.1d 25359
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 -----END CERTIFICATE-----

# Issuer: CN=Deutsche Telekom Root CA 2 O=Deutsche Telekom AG OU=T-TeleSec Trust Center
# Subject: CN=Deutsche Telekom Root CA 2 O=Deutsche Telekom AG OU=T-TeleSec Trust Center
# Label: "Deutsche Telekom Root CA 2"
# Serial: 38
# SHA256 Fingerprint:

---END CERTIFICATE-----

# Issuer: CN=Cybertrust Global Root O=Cybertrust, Inc
# Subject: CN=Cybertrust Global Root O=Cybertrust, Inc
# Label: "Cybertrust Global Root"
# Serial: 4835703278456828748360
# SHA256 Fingerprint:

-----BEGIN CERTIFICATE-----
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-----END CERTIFICATE-----

# Issuer: O=Chunghwa Telecom Co., Ltd. OU=eperk Root Certification Authority
# Subject: O=Chunghwa Telecom Co., Ltd. OU=eperk Root Certification Authority
# Label: "eperk Root Certification Authority"
# Serial: 289560886273518965503529057352760477
# SHA256 Fingerprint:

-----BEGIN CERTIFICATE-----
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-----END CERTIFICATE-----
Open Source Used In APIC-SE-BATMAN 2.1.1d  25362

# Issuer: O=certSIGN OU=certSIGN ROOT CA
# Subject: O=certSIGN OU=certSIGN ROOT CA
# Label: "certSIGN ROOT CA"
# Serial: 35210227249154

---END CERTIFICATE-----
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-----END CERTIFICATE-----
Open Source Used In APIC-SE-BATMAN 2.1.1d 25370

# Serial: 14014712776195784473
# SHA256 Fingerprint:
-----BEGIN CERTIFICATE-----

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-----END CERTIFICATE-----

# Issuer: CN=GlobalSign O=GlobalSign OU=GlobalSign Root CA - R3
# Subject: CN=GlobalSign Root CA - R3
# Serial: 4835703278459759426209954

# SHA256 Fingerprint:
-----BEGIN CERTIFICATE-----
NyYBWNnGYyKDoNXyurZVP/u3oDYLdE41V4tC5h9Pmzb/CaIxw==

-----END CERTIFICATE-----

# Issuer: CN=Chambers of Commerce Root - 2008 O=AC Camerfirma S.A.
# Subject: CN=Chambers of Commerce Root - 2008 O=AC Camerfirma S.A.
# Label: "Chambers of Commerce Root - 2008"
# Serial: 11806822484801597146

BEGIN CERTIFICATE
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-----END CERTIFICATE-----
Yhz2rXzdpjEetrHHfoUm+qRqtdpjMNHzvzeYzi99Bffnt0uYIDXA2TopwZ2yUDMdSqalpskD74305HuirRZhOokP9DuqqHW2Pok+JrqsNS4nhrG+055F3ln6qH1U90AP7zrap88Mq8oAgF9mOinsKJknnnSIPIVqczmyETrP3iZSntxPjxmnKfGJB15rsOMoLpRQPhbKGes/Fgh9C9Ylsr2R2k7ewIPMW47bMDaTrmpgo7vQc5i7WzouE4gev88CSIQDb4yei3ix5Vq/qn9FeUBotovkC7sTYWdpvGjqsGvHC/otwJz+R6qGZ09gwzMNTxJhLynSC34MCN32EZLw32j006f2ARETPm67VVMBOgNELQpB
-----END CERTIFICATE-----

# Issuer: CN=Go Daddy Root Certificate Authority - G2 O=GoDaddy.com, Inc.
# Subject: CN=Go Daddy Root Certificate Authority - G2 O=GoDaddy.com, Inc.
# Label: "Go Daddy Root Certificate Authority - G2"

# Serial: 0


-----BEGIN CERTIFICATE-----

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M0LpRQp8bfKGeS/Fghl9CYl8slR2iK7ewfPM4W7bMDaTrmpgo7vQc5i7WzouE4gev88

-----END CERTIFICATE-----

# Issuer: CN=Starfield Root Certificate Authority - G2 O=Starfield Technologies, Inc.
# Subject: CN=Starfield Root Certificate Authority - G2 O=Starfield Technologies, Inc.

# Label: "Starfield Root Certificate Authority - G2"

# Serial: 0

Open Source Used In APIC-SE-BATMAN 2.1.1d 25376

-----BEGIN CERTIFICATE-----
MIID3TCCAsWgAwIBAgIBADANBgkqhkiG9w0BAQsFADCBjzELMAkGA1UEBhMCVVMx
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-----END CERTIFICATE-----


-----BEGIN CERTIFICATE-----
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-----END CERTIFICATE-----
Open Source Used In APIC-SE-BATMAN 2.1.1d 25377

---END CERTIFICATE-----

# Issuer: CN=AffirmTrust Commercial O=AffirmTrust
# Subject: CN=AffirmTrust Commercial O=AffirmTrust
# Label: "AffirmTrust Commercial"
# Serial: 8608355977964138876
# MD5 Fingerprint: 82:92:9a:5e:6c:2f:6d:6f:7b
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---END CERTIFICATE-----

# Issuer: CN=AffirmTrust Networking O=AffirmTrust
# Subject: CN=AffirmTrust Networking O=AffirmTrust
# Label: "AffirmTrust Networking"
# Serial: 895738282706547775
# SHA1 Fingerprint: 5d:66:5e:6c:2f:6d:6f:7b
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# Issuer: CN=AffirmTrust Premium ECC O=AffirmTrust
# Subject: CN=AffirmTrust Premium ECC O=AffirmTrust
# Label: "AffirmTrust Premium ECC"
# Serial: 8401224907861490260
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-----END CERTIFICATE-----

# Issuer: CN=Certum Trusted Network CA O=Unizeto Technologies S.A. OU=Certum Certification Authority
# Subject: CN=Certum Trusted Network CA O=Unizeto Technologies S.A. OU=Certum Certification Authority
# Label: "Certum Trusted Network CA"
# Serial: 279744
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-----END CERTIFICATE-----

# Issuer: CN=Certum Trusted Network CA O=Unizeto Technologies S.A. OU=Certum Certification Authority
# Subject: CN=Certum Trusted Network CA O=Unizeto Technologies S.A. OU=Certum Certification Authority
# Label: "Certum Trusted Network CA"
# Serial: 279744
-----BEGIN CERTIFICATE-----
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-----END CERTIFICATE-----
# Issuer: CN=Buypass Class 3 Root CA O=Buypass AS
# Subject: CN=Buypass Class 3 Root CA O=Buypass AS
# Label: "Buypass Class 3 Root CA"
# Serial: 2
# SHA256 Fingerprint:

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-----END CERTIFICATE-----

--- DISCLAIMER ---

# Open Source Used In APIC-SE-BATMAN 2.1.1d #2385
Open Source Used In APIC-SE-BATMAN 2.1.1d  25388

# Issuer: CN=D-TRUST Root Class 3 CA 202 EV 2009 O=D-Trust GmbH
# Subject: CN=D-TRUST Root Class 3 CA 202 EV 2009 O=D-Trust GmbH
# Label: "D-TRUST Root Class 3 CA 2009"
# Serial: 623604

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Open Source Used In APIC-SE-BATMAN 2.1.1d

# Issuer: CN=ACCVRAIZ1 O=ACCV OU=PKIACCV
# Subject: CN=ACCVRAIZ1 O=ACCV OU=PKIACCV
# Label: "ACCVRAIZ1"
# Serial: 682850338474869680
# SHA256 Fingerprint:

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# Issuer: CN=TWCA Global Root CA O=TAIWAN-CA OU=Root CA
# Subject: CN=TWCA Global Root CA O=TAIWAN-CA OU=Root CA
# Label: "TWCA Global Root CA"
# Serial: 3262
# SHA256 Fingerprint:

-----BEGIN CERTIFICATE-----

# Issuer: CN=TeliaSonera Root CA O=TeliaSonera
# Subject: CN=TeliaSonera Root CA O=TeliaSonera
# Label: "TeliaSonera Root CA v1"

-----END CERTIFICATE-----
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# SHA256 Fingerprint:
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-----END CERTIFICATE-----
# Issuer: CN=E-Tugra Certification Authority O=E-Tura EBGBiliim Teknolojileri ve Hizmetleri A. OU=E-Tugra Sertifikasyon Merkezi
# Subject: CN=E-Tugra Certification Authority O=E-Tura EBGBiliim Teknolojileri ve Hizmetleri A. OU=E-Tugra Sertifikasyon Merkezi
# Label: "E-Tugra Certification Authority"
# Serial: 7667447206703234555
# SHA256 Fingerprint:
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BSeOE6FuR==

-----END CERTIFICATE-----

# Issuer: CN=Atos TrustedRoot 2011 O=Atos
# Subject: CN=Atos TrustedRoot 2011 O=Atos
# Label: "Atos TrustedRoot 2011"
# Serial: 6643877497813316402

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Open Source Used In APIC-SE-BATMAN 2.1.1d 25394
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# Issuer: CN=USERTrust RSA Certification Authority O=The USERTRUST NETWORK
# Subject: CN=USERTrust RSA Certification Authority O=The USERTRUST NETWORK
# Label: "USERTrust RSA Certification Authority"
# Serial: 264599376478105878591871645665788717

-----BEGIN CERTIFICATE-----

--- End of certificate ---
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---BEGIN CERTIFICATE-----
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---END CERTIFICATE---

# Issuer: CN=Staat der Nederlanden EV Root CA O=Staat der Nederlanden
# Subject: CN=Staat der Nederlanden EV Root CA O=Staat der Nederlanden
# Label: "Staat der Nederlanden EV Root CA"
# Serial: 10000103

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-----END CERTIFICATE-----
# SHA256 Fingerprint:

-----BEGIN CERTIFICATE-----
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# Issuer: CN=OpenTrust Root CA G1 O=OpenTrust
# Subject: CN=OpenTrust Root CA G1 O=OpenTrust
# Label: "OpenTrust Root CA G1"
# Serial: 1492036577811947013770400127034258178844775
# SHA256 Fingerprint:

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# Issuer: CN=OpenTrust Root CA G2 O=OpenTrust
# Subject: CN=OpenTrust Root CA G2 O=OpenTrust
# Label: "OpenTrust Root CA G2"
# Serial: 1492012448024720209687857987679693573415441
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# SHA256 Fingerprint:
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Open Source Used In APIC-SE-BATMAN 2.1.1d  25418
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---END CERTIFICATE---

# Issuer: CN=GDCA TrustAUTH R5 ROOT O=GUANG DONG CERTIFICATE AUTHORITY CO.,LTD.
# Subject: CN=GDCA TrustAUTH R5 ROOT O=GUANG DONG CERTIFICATE AUTHORITY CO.,LTD.
# Label: "GDCA TrustAUTH R5 ROOT"
# Serial: 9009899650704120186
# SHA256 Fingerprint:

-----BEGIN CERTIFICATE-----
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/wQFMAMBAbf8wDgYDVR0PAQHH/BADAGeEGMA8GA1udEoEB/
-----END CERTIFICATE-----

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# Issuer: CN=TrustCor RootCert CA-1 O=TrustCor Systems S. de R.L. OU=TrustCor Certificate Authority
# Subject: CN=TrustCor RootCert CA-1 O=TrustCor Systems S. de R.L. OU=TrustCor Certificate Authority
# Label: "TrustCor RootCert CA-1"
# Serial: 15752444095811006489
# SHA1 Fingerprint: ff:bd:cd:e7:82:c8:43:5e:3c:6f:26:86:5c:ca:83:3a:45:5b:3c:0a
# SHA256 Fingerprint:
-----BEGIN CERTIFICATE-----
MIIECCAgAwIBAgIJAAttZQx7Hzs7AZMA0GCSqGSIb3DQEBCwUAMIGkMQswCQYD
VQQGewJQQTEPMA0GA1UECAwGUGFuYW1hMRQwEgYDVQQHDAtQYW5hbWEgQ2l0eTEk
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-----END CERTIFICATE-----

# Issuer: CN=TrustCor RootCert CA-2 O=TrustCor Systems S. de R.L. OU=TrustCor Certificate Authority
# Subject: CN=TrustCor RootCert CA-2 O=TrustCor Systems S. de R.L. OU=TrustCor Certificate Authority
# Label: "TrustCor RootCert CA-2"
# Serial: 27116945101991001698
# SHA256 Fingerprint:
-----BEGIN CERTIFICATE-----
Open Source Used In APIC-SE-BATMAN 2.1.1d

-----BEGIN CERTIFICATE-----
MIIF3TCCAA8WgAwIBAgIeyyb0xaAMpkwDQYJKoZIhvcNAQELBQAwfDELMAkGA1UEBhMCVMx
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kTMTIwMDAeFw0xNTIwMTMwNDAxMTAwFw0xNTMwMDAwFw0yMDAwMDEwMA0GA1UEBhMCQ0Fa
MCcGCCsGSCwVzATCBMjAwNzEwMTAwNzEwMjAwIjAValidation Date: 14 Aug 2019
-----END CERTIFICATE-----
# SHA256 Fingerprint:

-----BEGIN CERTIFICATE-----

MIIF6zCCA90gAwIBAgIIIVrYzpTS8ePYwDQYJKoZIhvcNAQELBQAwYXcwCzAJBgNV
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CgwPU1NMIEvncBvcmF0aW9uMTcwNQYDVQQDDC5TU0wuY29iEVIWIFJvb3QgVY
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BwwHSQ91c3RvbjYEMYBYGA1UECgwPU1NMIEvncBvcmF0aW9uMTcwNQYDVQQD
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-----END CERTIFICATE-----

# Issuer: CN=SSL.com EV Root Certification Authority ECC O=SSL Corporation
# Subject: CN=SSL.com EV Root Certification Authority ECC O=SSL Corporation
# Label: "SSL.com EV Root Certification Authority ECC"
# Serial: 3182246526754555285
# SHA256 Fingerprint:
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/crypto/curve25519/x25519-x86_64.c
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Found in path(s):
*/opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/fipsmodule/modes/ctr.c
*/opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/fipsmodule/modes/ofb.c
*/opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/fipsmodule/modes/internal.h
*/opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
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/* "grpc/_cython/cygrpc.pyx":1
 * # Copyright 2015 gRPC authors.             # <<<<<<<<<<<<<<
 * #
 * # Licensed under the Apache License, Version 2.0 (the "License");
 */

Found in path(s):
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1.1-tar-gz/grpcio-
1.12.1/third_party/boringssl/crypto/fipsmodule/modes/gcm_test.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1.1-tar-gz/grpcio-
1.12.1/third_party/boringssl/crypto/fipsmodule/modes/cbc.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1.1-tar-gz/grpcio-
1.12.1/third_party/boringssl/crypto/fipsmodule/modes/cfb.c

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/* unzip.c -- IO for uncompress .zip files using zlib
 Version 1.1, February 14th, 2010
 part of the MiniZip project - ( http://www.winimage.com/zLibDll/minizip.html )

 Copyright (C) 1998-2010 Gilles Vollant (minizip) ( http://www.winimage.com/zLibDll/minizip.html )

 Modifications of Unzip for Zip64
 Copyright (C) 2007-2008 Even Rouault

 Modifications for Zip64 support on both zip and unzip
 Copyright (C) 2009-2010 Mathias Svensson ( http://result42.com )

 For more info read MiniZip_info.txt

-----------------------------------------------------------------------------

Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of compatibility with older software. The following is from the original crypt.c.

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See the accompanying file LICENSE, version 2000-Apr-09 or later
(the contents of which are also included in zip.h) for terms of use.
If, for some reason, all these files are missing, the Info-ZIP license
also may be found at: ftp://ftp.info-zip.org/pub/infozip/license.html

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]
The encryption/decryption parts of this source code (as opposed to the non-echoing password parts) were originally written in Europe. The whole source package can be freely distributed, including from the USA. (Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from Roger Schlafly, described by Phil Katz in the file appnote.txt. This file (appnote.txt) is distributed with the PKZIP program (even in the version without encryption capabilities).

Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl_unzGetCurrentFileZStreamPos
2007-2008 - Even Rouault - Decoration of symbol names unz* -&gt; cpl_unz*
2007-2008 - Even Rouault - Remove old C style function prototypes
2007-2008 - Even Rouault - Add unzip support for ZIP64

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Oct-2009 - Mathias Svensson - Removed cpl_* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).
Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was &gt; 4G and compressed size was &lt;4G should only read the compressed/uncompressed size from the Zip64 format if the size from normal header was 0xFFFFFFFF
Oct-2009 - Mathias Svensson - Applied some bug fixes from patches received from Gilles Vollant
Oct-2009 - Mathias Svensson - Applied support to unzip files with compression method BZIP2 (bzip2 lib is required)

Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

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*/

Found in path(s):
*/opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/zlib/contrib/minizip/unzip.c
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* The implementation was written so as to conform with Netscapes SSL.
*
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/ssl/ssl_lib.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/ssl_cipher.cc
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  1.12.1/third_party/cares/cares/ares_getopt.h
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1.12.1/third_party/boringssl/third_party/gtest/test/gtest_throw_on_failure_test.py
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/cipher_extra/cipher_test.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/evp/evp_test.cc
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/* deflate.c -- compress data using the deflation algorithm
 * Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler
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 */

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/zlib/deflate.c
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/*
 * IP-address/hostname to country converter.
 *
 * Problem; you want to know where IP a.b.c.d is located.
 *
 * Use ares_gethostbyname ("d.c.b.a.zz.countries.nerd.dk")
 * and get the CNAME (host->h_name). Result will be:
 * CNAME = zz<CC>.countries.nerd.dk with address 127.0.x.y (ver 1) or
 * CNAME = <a.b.c.d>.zz.countries.nerd.dk with address 127.0.x.y (ver 2)
 *
 * The 2 letter country code is in <CC> and the ISO-3166 country
 * number is in x.y (number = x*256 + y). Version 2 of the protocol is missing
 * the <CC> number.
 *
 * Ref: http://countries.nerd.dk/more.html
 *
 * Written by G. Vanem <gvanem@yahoo.no> 2006, 2007
 *
 * NB! This program may not be big-endian aware.
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  1.12.1/third_party/cares/cares/acountry.c
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/crypto/ecdh/ecdh.c
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  * /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
    1.12.1/third_party/boringssl/crypto/x509v3/pcy_int.h
  * /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
    1.12.1/third_party/boringssl/crypto/x509v3/pcy_map.c
  * /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
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  1.12.1/third_party/boringssl/crypto/cpu-ppc64le.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/crypto/pool/pool_test.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/include/openssl/asn1_mac.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/decrepit/evp/dss1.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/crypto/curve25519/spake25519_test.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/crypto/chacha/chacha_test.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/boringssl/crypto/x509/internal.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/boringssl/fuzz/session.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/boringssl/crypto/curve25519/spake25519.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/boringssl/crypto/ecdh/ecdh_test.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/boringssl/crypto/x509/x509_test.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/boringssl/fuzz/privkey.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/boringssl/include/openssl/obj_mac.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/boringssl/crypto/obj/obj_test.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/boringssl/fuzz/spki.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/boringssl/fuzz/read_pem.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/boringssl/fuzz/pkcs8.cc
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1.12.1/third_party/boringssl/ssl/tls13_both.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/boringssl/crypto/cpu-aarch64-linux.c
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1.12.1/third_party/boringssl/crypto/bytestring/asn1_compat.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/boringssl/crypto/pool/pool.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/boringssl/crypto/fipsmodule/modes/polyval.c
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1.12.1/third_party/boringssl/crypto/pool/internal.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/boringssl/crypto/pool/pool.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/boringssl/decrepit/x509/x509_decrepit.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/boringssl/fuzz/client.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/boringssl/decrepit/obj/obj_decrepit.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar.gz/grpcio-
1.12.1/third_party/boringssl/crypto/fipsmodule/ec/p256-x86_64_test.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar.gz/grpcio-
1.12.1/third_party/boringssl/fuzz/server.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar.gz/grpcio-
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar.gz/grpcio-
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar.gz/grpcio-
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar.gz/grpcio-
1.12.1/third_party/boringssl/tls13_enc.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar.gz/grpcio-
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar.gz/grpcio-
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1.12.1/third_party/cares/cares/ares_platform.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar.gz/grpcio-
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1.12.1/third_party/boringssl/crypto/x509v3/v3_genn.c
*/opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/include/openssl/pem.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
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Version 1.4 11 December 2005  Mark Adler */

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/fipsmodule/ec/cc_montgomery.c
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/zlib/deflate.h
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/ext/filters/http/client/http_client_filter.h
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  1.12.1/third_party/boringssl/crypto/dsa/dsa_test.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/include/openssl/dsa.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/crypto/dsa/dsa.c

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  1.12.1/third_party/boringssl/ssl/ssl_session.cc

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
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  1.12.1/third_party/boringssl/decrepit/cast/cast.c
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/rand_extra/windows.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/ssl/test/test_config.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/base64/base64_test.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/pkcs8/pkcs12_test.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/ssl/test/packeted_bio.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/fipsmodule/cipher/aead.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/bio/socket_helper.c
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest_shuffle_test.py
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  1.12.1/third_party/boringssl/crypto/x509v3/v3_pcons.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/crypto/x509v3/v3_ncons.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/gpr/mpscq.cc
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/ext/filters/load_reporting/server_load_reporting_plugin.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/gpr/string_util_windows.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/security/credentials/oauth2/oauth2_credentials.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/security/credentials/oauth2/oauth2_credentials.h
```
1.12.1/src/core/lib/iomgr/resource_quota.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/plugin_registry/grpc_cronet_plugin_registry.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/lib/transport/pid_controller.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/lib/channel/handshaker_registry.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/lib/iomgr/pollset_set_custom.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/lib/security/credentials/saml/saml_credentials.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/ext/transport/chttp2/transport/bin_decoder.h
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1.12.1/src/core/lib/security/credentials/fake/fake_credentials.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/lib/slice/percent_encoding.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/ext/filters/client_channel/parsing_address.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/iomgr/ev_epollsig_linux.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/lib/security/credentials/fake/fake_credentials.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/lib/security/credentials/ssl/ssl_credentials.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/lib/surface/channel_init.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/lib/transport/error_utils.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/lib/backoff/backoff.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
Open Source Used In APIC-SE-BATMAN 2.1.1d

1.12.1/include/grpc/impl/codegen/sync.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/ext/filters/client_channel/lb_policy/grpclb/grpclb.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/lib/iomgr/unix_sockets_posix.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/lib/iomgr/endpoint_pair_uv.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/lib/channel/channel_stack_builder.cc

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1.12.1/third_party/boringssl/decrepit/cfb/cfb.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/boringssl/decrepit/cfb/cfb_test.cc

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/* crc32.c -- compute the CRC-32 of a data stream
 * For conditions of distribution and use, see copyright notice in zlib.h
 *
 * Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster
 * CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
 * tables for updating the shift register in one step with three exclusive-ors
 * instead of four steps with four exclusive-ors. This results in about a
 * factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.
 */

Found in path(s):
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/zlib/crc32.c

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1.12.1/third_party/boringssl/util/bot/extract.py
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/boringssl/util/bot/vs_env.py
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/boringssl/util/generate-asm-lcov.py
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/* infcover.c -- test zlib's inflate routines with full code coverage
 * Copyright (C) 2011, 2016 Mark Adler
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 */

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/zlib/test/infcover.c

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/* infback9.h -- header for using inflateBack9 functions
 * Copyright (C) 2003 Mark Adler
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 */

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Metadata-Version: 1.1
Name: grpcio
Version: 1.12.1
Summary: HTTP/2-based RPC framework
Home-page: https://grpc.io
Author: The gRPC Authors
Author-email: grpc-io@googlegroups.com
License: Apache License 2.0
Description-Content-Type: UNKNOWN
Description: gRPC Python

============
Package for gRPC Python.

Installation
-----------

gRPC Python is available for Linux, macOS, and Windows.

From PyPI
~~~~~~~

If you are installing locally...

::

$ pip install grpcio

Else system wide (on Ubuntu)...  
::

$ sudo pip install grpcio

If you're on Windows make sure that you installed the `pip.exe` component when you installed Python (if not go back and install it!) then invoke:

::

$ pip.exe install grpcio

Windows users may need to invoke `pip.exe` from a command line ran as administrator.

n.b. On Windows and on Mac OS X one *must* have a recent release of `pip` to retrieve the proper wheel from PyPI. Be sure to upgrade to the latest version!

From Source
~~~~~~~~~~

Building from source requires that you have the Python headers (usually a package named `python-dev`).

::

$ export REPO_ROOT=grpc  # REPO_ROOT can be any directory of your choice
$ cd $REPO_ROOT
$ git submodule update --init

# For the next two commands do `sudo pip install` if you get permission-denied errors
$ pip install -requirements.txt
$ GRPC_PYTHON_BUILD_WITH_CYTHON=1 pip install .

You cannot currently install Python from source on Windows. Things might work out for you in MSYS2 (follow the Linux instructions), but it isn't officially supported at the moment.

Troubleshooting
~~~~~~~~~~~~~~~

Help, I ...

* ***... see a** :code:`pkg_resources.VersionConflict` **when I try to install grpc**

This is likely because :code:`pip` doesn't own the offending dependency, which in turn is likely because your operating system's package manager owns it. You'll need to force the installation of the dependency:

:code:`pip install --ignore-installed $OFFENDING_DEPENDENCY`

For example, if you get an error like the following:

::

    Traceback (most recent call last):
    File "<string>"", line 17, in <module>
    ...
    File "/usr/lib/python2.7/dist-packages/pkg_resources.py", line 509, in find
    raise VersionConflict(dist, req)
    pkg_resources.VersionConflict: (six 1.8.0 (/usr/lib/python2.7/dist-packages), Requirement.parse('six>=1.10'))

You can fix it by doing:

::

    sudo pip install --ignore-installed six

* ***... see the following error on some platforms**

::

    /tmp/pip-build-U8pSsr/cython/Cython/Plex/Scanners.c:4:20: fatal error: Python.h: No such file or directory
    #include "Python.h"
    ^
compilation terminated.

You can fix it by installing `python-dev` package. i.e

::

    sudo apt-get install python-dev

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
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
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/python/grpcio/grpcio.egg-info/PKG-INFO
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/PKG-INFO
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 *
 */

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/* gzjoin -- command to join gzip files into one gzip file

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version 1.2, 14 Aug 2012

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/* gzappend -- command to append to a gzip file

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/fipsmodule/ec/p256-x86_64.h

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/tsi/ssl/session_cache/ssl_session_boringssl.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/tsi/alts/frame_protector/frame_handler.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/tsi/alts/frame_protector/altssl_protocoi_crypter_common.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/security/credentials/altssl/check_gcp_environment_linux.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/security/credentials/altssl/grpc_alts_credentials_options.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/tsi/alts/handshaker/altssl_handshaker.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/security/credentials/alts/grpc_alts_credentials_server_options.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/iomgr/tcp_client_custom.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/ext/filters/http/client_authority_filter.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/iomgr/tcp_custom.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/iomgr/timer.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/security/credentials/alts/alts_credentials.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/security/credentials/alts/check_gcp_environment.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/security/credentials/alts/ssl_session_openssl.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/tsi/alts/handshaker/alts_tsi_handshaker.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/tsi/alts/handshaker/alts_tsi_handshaker_service_api_util.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/tsi/alts/handshaker/alts_tsi_event.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/tsi/alts/handshaker/transport_security_common_api.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/tsi/alts/handshaker/alds_handshaker_service_api_util.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/tsi/alts/ssl/session_cache/ssl_session_openssl.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/tsi/alts/ssl/session_cache/ssl_session_cache.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/tsi/alts/alts_crypter.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/tsi/alts/handshaker/alts_counter.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/tsi/alts/frame_protector/alts_crypter.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/tsi/alts/frame_protector/alts_counter.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/tsi/alts/frame_protector/alts_integrity_only_record_protocol.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/tsi/alts/frame_protector/alts_zero_copy_frame_protector.h
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1.12.1/third_party/boringssl/crypto/x509v3/pcy_lib.c
/opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
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  1.12.1/third_party/boringssl/crypto/evp/p_ec_asn1.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/crypto/x509/rsa_pss.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
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zran.c -- example of zlib/gzip stream indexing and random access

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/util/bot/go/bootstrap.py
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/util/bot/go/env.py
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/util/bot/vs_toolchain.py
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1.12.1/third_party/boringssl/crypto/x509v3/v3_extku.c
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1.12.1/third_party/boringssl/crypto/x509v3/v3_prn.c
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* /opt/cola/permits/1160881901_1620412826.6/o/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/boringssl/crypto/x509v3/v3_enum.c
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1.12.1/third_party/boringssl/crypto/x509/x509_trs.c
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/* adler32.c -- compute the Adler-32 checksum of a data stream
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 */

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 * version 2.3, 21 Jan 2013
 */

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/rsa_extra/rsa_asn1.c

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/* example.c -- usage example of the zlib compression library
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* inffast.c -- fast decoding
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* 
* Dec-29-2003 -- I added AMD64 inflate asm support. This version is also
* slightly quicker on x86 systems because, instead of using rep movsb to copy
* data, it uses rep movsw, which moves data in 2-byte chunks instead of single
* bytes. I've tested the AMD64 code on a Fedora Core 1 + the x86_64 updates
* from http://fedora.linux.duke.edu/fc1_x86_64
* which is running on an Athlon 64 3000+ / Gigabyte GA-K8VT800M system with
* 1GB ram. The 64-bit version is about 4% faster than the 32-bit version,
* when decompressing mozilla-source-1.3.tar.gz.
* 
* Mar-13-2003 -- Most of this is derived from inffast.S which is derived from
* the gcc -S output of zlib-1.2.0/inffast.c. Zlib-1.2.0 is in beta release at
* the moment. I have successfully compiled and tested this code with gcc2.96,
* gcc3.2, icc5.0, msvc6.0. It is very close to the speed of inffast.S
* compiled with gcc -DNO_MMX, but inffast.S is still faster on the P3 with MMX
* enabled. I will attempt to merge the MMX code into this version. Newer
* versions of this and inffast.S can be found at
* http://www.eetbeetee.com/zlib/ and http://www.charm.net/~christop/zlib/
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
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1.1809 x-text v0.3.2

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1.1810 pythonurllib 1.10.2-7.el7

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  * 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

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* SSL fingerprint and alternative hostname verification
* Bugfixes in testsuite

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  * 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>
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* 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>
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* 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

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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1.1812 coredns-federation v0.0.0-20190818181423-e032b096babe

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1.1817 perks v0.0.0-20180321164747-3a771d992973

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1.1818 perl-devel-ppport 3.36-5.el8

1.1818.1 Available under license:

No license file was found, but licenses were detected in source scan.

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##
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##
#*****************************************************************************

=tests plan => 0

my @pods = qw( HACKERS PPPort.pm ppport.h soak devel/regenerate devel/buildperl.pl );

my $reason = "

if ($ENV{'SKIP_SLOW_TESTS'}) {
  $reason = 'SKIP_SLOW_TESTS';
} else {
  # Try loading Test::Pod
  eval q{
    use Test::Pod;
    $Test::Pod::VERSION >= 0.95
    or die "Test::Pod version only $Test::Pod::VERSION";
    import Test::Pod tests => scalar @pods;
  };
  $reason = 'Test::Pod >= 0.95 required' if $@;
}
if ($reason) {
    load();
    plan(tests => scalar @pods);
}

for (@pods) {
    print "# checking $_\n";
    if ($reason) {
        skip("skip: $reason", 0);
    } else {
        pod_file_ok($_);
    }
}

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*******************************************************************************
*                          Perl/Pollution/Portability                         *
*                                                                             *
*******************************************************************************
*                              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.
*                                                                             *
*******************************************************************************

Found in path(s):
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####################################
##                              ##
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##

Open Source Used In APIC-SE-BATMAN 2.1.1d  25624
## This program is free software; you can redistribute it and/or
## modify it under the same terms as Perl itself.
##
###=provides

vnewSVpvf
sv_vcatpvf
sv_vsetpvf

sv_catpvf_mg
sv_catpvf_mg_nocontext
sv_vcatpvf_mg

sv_setpvf_mg
sv_setpvf_mg_nocontext
sv_vsetpvf_mg

=implementation

#if { VERSION >= 5.004 } && !defined(vnewSVpvf)
#if { NEED vnewSVpvf }

SV *
vnewSVpvf(pTHX_ const char *pat, va_list *args)
{
  register SV *sv = newSV(0);
  sv_vsetpvfn(sv, pat, strlen(pat), args, Null(SV**), 0, Null(bool*));
  return sv;
}
#endif
#endif

#else

#else

#endif

#if { VERSION >= 5.004 } && !defined(sv_vcatpvf)
#define sv_vcatpvf(sv, pat, args) sv_vcatpvfn(sv, pat, strlen(pat), args, Null(SV**), 0, Null(bool*))
#endif

#if { VERSION >= 5.004 } && !defined(sv_vsetpvf)
#define sv_vsetpvf(sv, pat, args) sv_vsetpvfn(sv, pat, strlen(pat), args, Null(SV**), 0, Null(bool*))
#endif

#if { VERSION >= 5.004 } && !defined(sv_catpvf_mg)
#if { NEED sv_catpvf_mg }

void
sv_catpvf_mg(pTHX_SV *sv, const char *pat, ...)

Open Source Used In APIC-SE-BATMAN 2.1.1d 25625
#ifdef PERL_IMPLICIT_CONTEXT
#ifdef VERSION >= 5.004 !defined(sv_catpvf_mg_nocontext)
#define sv_catpvf_mg Perl_sv_catpvf_mg_nocontext
#else
#define sv_catpvf_mg Perl_sv_catpvf_mg
#endif
#endif

/* sv_catpvf_mg depends on sv_catpvf_mg_nocontext */
#endif sv_catpvf_mg
#endif PERL_IMPLICIT_CONTEXT

#define sv_vcatpvf_mg(sv, pat, args) STMT_START
    sv_vcatpvf_mg_nocontext(sv, pat, args)
    SvSETMAGIC(sv)
} STMT_END

#if { VERSION >= 5.004 } !defined(sv_setpvf_mg)
#define sv_setpvf_mg STMT_START
    sv_vcatpvf_mg(sv, pat, &args, Null(SV**), 0, Null(bool*));
    SvSETMAGIC(sv)
} STMT_END
#endif

{ va_list args;
 va_start(args, pat);
 sv_vcatpvf_mg(sv, pat, strlen(pat), &args, Null(SV**), 0, Null(bool*));
 SvSETMAGIC(sv);
 va_end(args);
}
#endif
#endif

@ifdef PERL_IMPLICIT_CONTEXT
@if { VERSION >= 5.004 } && !defined(sv_catpvf_mg_nocontext)
@if { NEED sv_catpvf_mg_nocontext }
void
sv_catpvf_mg_nocontext(SV *sv, const char *pat, ...)
{
    dTHX;
    va_list args;
    va_start(args, pat);
    sv_vcatpvf_mg_nocontext(sv, pat, strlen(pat), &args, Null(SV**), 0, Null(bool*));
    SvSETMAGIC(sv);
    va_end(args);
}
#endif
#endif
#endif

/* sv_catpvf_mg depends on sv_catpvf_mg_nocontext */
#ifndef sv_catpvf_mg
#ifdef PERL_IMPLICIT_CONTEXT
#define sv_catpvf_mg Perl_sv_catpvf_mg_nocontext
#else
#define sv_catpvf_mg Perl_sv_catpvf_mg
#endif
#endif

#if { VERSION >= 5.004 } && !defined(sv_vcatpvf_mg)
#define sv_vcatpvf_mg(sv, pat, args) STMT_START
    sv_vcatpvf_mg_nocontext(sv, pat, args)
    SvSETMAGIC(sv)
} STMT_END
#endif

#if { VERSION >= 5.004 } && !defined(sv_setpvf_mg)
#define sv_setpvf_mg STMT_START
    sv_vcatpvf_mg(sv, pat, &args, Null(SV**), 0, Null(bool*));
    SvSETMAGIC(sv)
} STMT_END
#endif

Open Source Used In APIC-SE-BATMAN 2.1.1d 25626
#if { NEED sv_setpvf_mg }

void
sv_setpvf_mg(pTHX_ SV *sv, const char *pat, ...)
{
    va_list args;
    va_start(args, pat);
    sv_vsetpvfn(sv, pat, strlen(pat), &args, Null(SV**), 0, Null(bool*));
    SvSETMAGIC(sv);
    va_end(args);
}
#endif
#endif

#ifdef PERL_IMPLICIT_CONTEXT
#if { VERSION >= 5.004 } && !defined(sv_setpvf_mg_nocontext)
#if { NEED sv_setpvf_mg_nocontext }

void
sv_setpvf_mg_nocontext(SV *sv, const char *pat, ...)
{
    dTHX;
    va_list args;
    va_start(args, pat);
    sv_vsetpvfn(sv, pat, strlen(pat), &args, Null(SV**), 0, Null(bool*));
    SvSETMAGIC(sv);
    va_end(args);
}
#endif
#endif
#endif

/* sv_setpvf_mg depends on sv_setpvf_mg_nocontext */
#ifndef sv_setpvf_mg
    #ifdef PERL_IMPLICIT_CONTEXT
    # define sv_setpvf_mg   Perl_sv_setpvf_mg_nocontext
    # else
    # define sv_setpvf_mg   Perl_sv_setpvf_mg
    # endif
#endif

#if { VERSION >= 5.004 } && !defined(sv_vsetpvf_mg)
    # define sv_vsetpvf_mg(sv, pat, args)
    STMT_START { sv_vsetpvfn(sv, pat, strlen(pat), args, Null(SV**), 0, Null(bool*)); SvSETMAGIC(sv); }
#endif
static SV * test_vnewSVpvf(pTHX_ const char *pat, ...) {
    SV *sv;
    va_list args;
    va_start(args, pat);
    #if { VERSION >= 5.004 }
    sv = vnewSVpvf(pat, &args);
    #else
    sv = newSVpvf((char *) pat, 0);
    #endif
    va_end(args);
    return sv;
}

static void test_sv_vcatpvf(pTHX_ SV *sv, const char *pat, ...) {
    va_list args;
    va_start(args, pat);
    #if { VERSION >= 5.004 }
    sv_vcatpvf(sv, pat, &args);
    #else
    sv_catpvf(sv, (char *) pat);
    #endif
    va_end(args);
}

static void test_sv_vsetpvf(pTHX_ SV *sv, const char *pat, ...) {
    va_list args;
    va_start(args, pat);
    #if { VERSION >= 5.004 }
    sv_vsetpvf(sv, pat, &args);
    #else
    sv_setpvf(sv, (char *) pat);
    #endif
va_end(args);
}

=xsubs

SV *

vnewSVpvf()
CODE:
RETVAL = test_vnewSVpvf(aTHX_%s-%d", "Perl", 42);
OUTPUT:
RETVAL

SV *
sv_vcatpvf(sv)
    SV *sv
    CODE:
    RETVAL = newSVsv(sv);
    test_sv_vcatpvf(aTHX_RETVAL, "%s-%d", "Perl", 42);
    OUTPUT:
    RETVAL

SV *
sv_vsetpvf(sv)
    SV *sv
    CODE:
    RETVAL = newSVsv(sv);
    test_sv_vsetpvf(aTHX_RETVAL, "%s-%d", "Perl", 42);
    OUTPUT:
    RETVAL

void
sv_catpvf_mg(sv)
    SV *sv
    CODE:
#if { VERSION >= 5.004 }
    sv_catpvf_mg(sv, "%s-%d", "Perl", 42);
#endif

void
Perl_sv_catpvf_mg(sv)
    SV *sv
    CODE:
#if { VERSION >= 5.004 }
    Perl_sv_catpvf_mg(aTHX_ sv, "%s-%d", "-Perl", 43);
#endif

void
sv_catpvf_mg_nocontext(sv)
SV *sv

CODE:
#if { VERSION >= 5.004 }
#ifdef PERL_IMPLICIT_CONTEXT
    sv_catpvf_mg_nocontext(sv, "%s-%d", ".-Perl", 44);
#else
    sv_catpvf_mg(sv, "%s-%d", ".-Perl", 44);
#endif
#endif

void
sv_setpvf_mg(sv)
    SV *sv

CODE:
#if { VERSION >= 5.004 }
    sv_setpvf_mg(sv, "%s-%d", "mhx", 42);
#endif

void
Perl_sv_setpvf_mg(sv)
    SV *sv

CODE:
#if { VERSION >= 5.004 }
    Perl_sv_setpvf_mg(aTHX_ sv, "%s-%d", "foo", 43);
#endif

void
sv_setpvf_mg_nocontext(sv)
    SV *sv

CODE:
#if { VERSION >= 5.004 }
    #ifdef PERL_IMPLICIT_CONTEXT
        sv_setpvf_mg_nocontext(sv, "%s-%d", "bar", 44);
    #else
        sv_setpvf_mg(sv, "%s-%d", "bar", 44);
    #endif
#endif

=tests plan => 9

use Tie::Hash;
my %h;
tie %h, 'Tie::StdHash';
$h{foo} = 'foo-';
$h{bar} = '';

ok(&Devel::PPPort::vnewSVpvf(), $] >= 5.004 ? 'Perl-42' : '%s-%d');
ok(&Devel::PPPort::sv_vcatpvf('1-2-3-'), $] >= 5.004 ? '1-2-3-Perl-42' : '1-2-3-%s-%d');
ok(&Devel::PPPort::sv_vsetpvf('1-2-3-'), $] >= 5.004 ? 'Perl-42' : '%s-%d');

&Devel::PPPort::sv_catpvf_mg($h{foo});
ok($h{foo}, $] >= 5.004 ? 'foo-Perl-42' : 'foo-');

&Devel::PPPort::Perl_sv_catpvf_mg($h{foo});
ok($h{foo}, $] >= 5.004 ? 'foo-Perl-42-Perl-43' : 'foo-');

&Devel::PPPort::sv_catpvf_mg_nocontext($h{foo});
ok($h{foo}, $] >= 5.004 ? 'foo-Perl-42-Perl-43-Perl-44' : 'foo-');

&Devel::PPPort::sv_setpvf_mg($h{bar});
ok($h{bar}, $] >= 5.004 ? 'mhx-42' : '');

&Devel::PPPort::Perl_sv_setpvf_mg($h{bar});
ok($h{bar}, $] >= 5.004 ? 'foo-43' : '');

&Devel::PPPort::sv_setpvf_mg_nocontext($h{bar});
ok($h{bar}, $] >= 5.004 ? 'bar-44' : '');

Found in path(s):
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******************************************************************************
##
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##
## This program is free software; you can redistribute it and/or
## modify it under the same terms as Perl itself.
##
******************************************************************************

=provides
newRV_inc
newRV_noinc

=implementation

__UNDEFINED__ newRV_inc(sv) newRV(sv) /* Replace */

#ifndef newRV_noinc
#if { NEED newRV_noinc }
SV *

Open Source Used In APIC-SE-BATMAN 2.1.1d 25631
newRV_noinc(SV *sv)
{
    SV *rv = (SV *)newRV(sv);
    SvREFCNT_dec(sv);
    return rv;
}
#endif
#endif

=xsinit

#define NEED_newRV_noinc

=xsubs

U32
newRV_inc_REFCNT()
PREINIT:
    SV *sv, *rv;
CODE:
    sv = newSViv(42);
    rv = newRV_inc(sv);
    SvREFCNT_dec(sv);
    RETVAL = SvREFCNT(sv);
    sv_2mortal(rv);
OUTPUT:
    RETVAL

U32
newRV_noinc_REFCNT()
PREINIT:
    SV *sv, *rv;
CODE:
    sv = newSViv(42);
    rv = newRV_noinc(sv);
    RETVAL = SvREFCNT(sv);
    sv_2mortal(rv);
OUTPUT:
    RETVAL

=tests plan => 2
ok(&Devel::PPPort::newRV_inc_REFCNT, 1);
ok(&Devel::PPPort::newRV_noinc_REFCNT, 1);

Found in path(s):
No license file was found, but licenses were detected in source scan.
exit 0;
}
}
use File::Path qw/rmtree mkpath/;
use Config;
my $tmp = 'ppptmp';
my $inc = '';
my $isVMS = $^O eq 'VMS';
my $isMAC = $^O eq 'MacOS';
my $perl = find_perl();
rmtree($tmp) if -d $tmp;
mkpath($tmp) or die "mkpath $tmp: $!\n";
chdir($tmp) or die "chdir $tmp: $!\n";
if ($ENV{'PERL_CORE'}) {
if (-d '../../lib') {
if ($isVMS) {
$inc = '"-I../../lib"';
}
elsif ($isMAC) {
$inc = '-I:::lib';
}
else {
$inc = '-I../../lib';
}
unshift @INC, '../../lib';
}
}
if ($perl =~ m!^\./!) {
$perl = ".$perl";
}
END {
chdir('..') if !-d $tmp && -d "../$tmp";
rmtree($tmp) if -d $tmp;
}
ok(&Devel::PPPort::WriteFile("ppport.h"));
# Check GetFileContents()
ok(-e "ppport.h", 1);
my $data;
open(F, "<ppport.h") or die "Failed to open ppport.h: $!";

Open Source Used In APIC-SE-BATMAN 2.1.1d 25634


while(<F>) {
$data .= $_;
}
close(F);
ok(Devel::PPPort::GetFileContents("ppport.h"), $data);
ok(Devel::PPPort::GetFileContents(), $data);
sub comment
{
my $c = shift;
$c =~ s/^/# | /mg;
$c .= "\n" unless $c =~ /[\r\n]$/;
print $c;
}
sub ppport
{
my @args = ('ppport.h', @_);
unshift @args, $inc if $inc;
my $run = $perl =~ m/\s/ ? qq("$perl") : $perl;
$run .= ' -MMac::err=unix' if $isMAC;
for (@args) {
$_ = qq("$_") if $isVMS && /^[^"]/;
$run .= " $_";
}
print "# *** running $run ***\n";
$run .= ' 2>&1' unless $isMAC;
my @out = `$run`;
my $out = join '', @out;
comment($out);
return wantarray ? @out : $out;
}
sub matches
{
my($str, $re, $mod) = @_;
my @n;
eval "\@n = \$str =~ /$re/g$mod;";
if ($@) {
my $err = $@;
$err =~ s/^/# *** /mg;
print "# *** ERROR ***\n$err\n";
}
return $@ ? -42 : scalar @n;
}
sub eq_files

Open Source Used In APIC-SE-BATMAN 2.1.1d 25635


my($f1, $f2) = @_;  
return 0 unless -e $f1 && -e $f2;  
local *F;  
for ($f1, $f2) {  
    print "# File: $_.\n";  
    unless (open F, "$_") {  
        print "# couldn't open $_.\n";  
        return 0;  
    }  
    $_ = do { local $/; <F> };  
    close F;  
    comment($_);  
}  
return $f1 eq $f2;  

my @tests;  
for (split /\s*={70,}\s*/i, do { local $/; <DATA> }) {  
    s/\s+//; s/\s+$//;  
    my($c, %f);  
    ($c, @f{m/-{20,}\s+(\S+)?\s+/-{20,}\s*/}) = split /\s+\-\s+\S+\s+\-\s+/;  
    push @tests, { code => $c, files => \%f };  
}  

my $t;  
for $t (@tests) {  
    print "#\n", ('# ', '-'x70, "\n")x3, "#\n";  
    my $f;  
    for $f (keys %{$t->{files}}) {  
        my @f = split '/\s/*', $f;  
        if (@f > 1) {  
            pop @f;  
            my $path = join '/', @f;  
            mkpath($path) or die "mkpath('$path'): $!\n";  
        }  
        my $txt = $t->{files}{$f};  
        local *F;  
        open F, ">$f" or die "open $f: $!\n";  
        print F "$txt\n";  
        close F;  
        $txt =~ s/^/# | /mg;  
        print "# *** writing $f *** $txt\n";  
    }  
    my $code = $t->{code};  
    $code =~ s/^/# | /mg;

Open Source Used In APIC-SE-BATMAN 2.1.1d 25636
print "# *** evaluating test code ***\n$code\n";
eval $t->{code};
if ($@) {
my $err = $@;
$err =~ s/^/# *** /mg;
print "# *** ERROR ***\n$err\n";
}
ok($@, '');
for (keys %{$t->{files}}) {
unlink $_ or die "unlink('$_'): $!\n";
}
}
sub find_perl
{
my $perl = $^X;
return $perl if $isVMS;
my $exe = $Config{'_exe'} || '';
if ($perl =~ /^perl\Q$exe\E$/i) {
$perl = "perl$exe";
eval "require File::Spec";
if ($@) {
$perl = "./$perl";
} else {
$perl = File::Spec->catfile(File::Spec->curdir(), $perl);
}
}
if ($perl !~ /\Q$exe\E$/i) {
$perl .= $exe;
}
warn "find_perl: cannot find $perl from $^X" unless -f $perl;
return $perl;
}
__DATA__
my $o = ppport(qw(--help));
ok($o =~ /^Usage:.*ppport\.h/m);
ok($o =~ /--help/m);

Open Source Used In APIC-SE-BATMAN 2.1.1d 25637


$o = ppport(qw(--version));
ok($o =~ /^This is.*ppport.*\d+\d+\d+\d+$/);

$o = ppport(qw(--nochanges));
ok($o =~ /^Scanning.*test\.xs$/mi);
ok($o =~ /Analyzing.*test\.xs$/mi);
ok(matches($o, 'Scanning', 'm'), 1);
ok(matches($o, 'Analyzing', 'm'), 1);
ok($o =~ /Uses Perl_newSViv instead of newSViv/);

$o = ppport(qw(--quiet --nochanges));
ok($o =~ /^$/);

---------------------------- test.xs ------------------------------------------

Perl_newSViv();

# check if C and C++ comments are filtered correctly

my $o = ppport(qw(--copy=a));
ok($o =~ /^Scanning.*MyExt\.xs$/mi);
ok($o =~ /Analyzing.*MyExt\.xs$/mi);
ok(matches($o, 'Scanning', 'm'), 1);
ok($o =~ /Needs to include.*ppport\.h$/m);
ok($o !~ /Uses grok_bin$/m);
ok($o !~ /Uses newSVpv$/m);
ok($o =~ /Uses 1 C\+\+ style comment$/);
ok(eq_files('MyExt.xsa', 'MyExt.ra'));

# check if C++ are left untouched with --cplusplus

$o = ppport(qw(--copy=b --cplusplus));
ok($o =~ /^Scanning.*MyExt\.xs$/mi);
ok($o =~ /Analyzing.*MyExt\.xs$/mi);
ok(matches($o, 'Scanning', 'm'), 1);
ok($o =~ /Needs to include.*ppport\.h$/m);
ok($o !~ /Uses grok_bin$/m);
ok($o !~ /Uses newSVpv$/m);
ok($o !~ /Uses \d+ C\+\+ style comment$/);
ok(eq_files('MyExt.xsb', 'MyExt.rb'));

unlink qw(MyExt.xsa MyExt.xsb);

---------------------------- MyExt.xs -----------------------------------------
newSVuv();
    // newSVpv();
    XPUSHs(foo);
/* grok_bin(); */

---------------------------- MyExt.ra -----------------------------------------

#include "ppport.h"
newSVuv();
    /* newSVpv(); */
    XPUSHs(foo);
/* grok_bin(); */

---------------------------- MyExt.rb -----------------------------------------

#include "ppport.h"
newSVuv();
    // newSVpv();
    XPUSHs(foo);
/* grok_bin(); */

my $o = ppport(qw(--nochanges file1.xs));
ok($o =~ /^Scanning.*file1.xs/mi);
ok($o =~ /Analyzing.*file1.xs/mi);
ok($o !~ /^Scanning.*file2.xs/mi);
ok($o =~ /^Uses newCONSTSUB/m);
ok($o =~ /WARNING: PL_expect/m);
ok($o =~ /hint for newCONSTSUB/m);
ok($o =~ /^Analysis completed (1 warning)/m);
ok($o =~ /^Looks good/m);

$o = ppport(qw(--nochanges --nohints file1.xs));
ok($o =~ /^Scanning.*file1.xs/mi);
ok($o =~ /Analyzing.*file1.xs/mi);
ok($o !~ /Scanning.*file2.xs/mi);
ok($o =~ /^Uses newCONSTSUB/m);
ok($o =~ /WARNING: PL_expect/m);
ok($o =~ /hint for newCONSTSUB/m);
ok($o =~ /^Analysis completed (1 warning)/m);
ok($o =~ /^Looks good/m);

$o = ppport(qw(--nochanges --nohints --nodiag file1.xs));
ok($o =~ /^Scanning.*file1\xs/mi);
ok($o =~ /Analyzing.*file1\xs/mi);
ok($o !~ /^Scanning.*file2\xs/mi);
ok($o !~ /Uses newCONSTSUB/m);
ok($o !~ /Uses PL\_expect/m);
ok($o !~ /Uses SvPV\_nolen/m);
ok($o =~ /WARNING: PL\_expect/m);
ok($o !~ /hint for newCONSTSUB/m);
ok($o =~ ^Analysis completed \(1 warning\)/m);
ok($o =~ ^Looks good/m);

So = ppport(qw(--nochanges --quiet file1.xs));
ok($o =~ /\s*$/);

So = ppport(qw(--nochanges file2.xs));
ok($o =~ /\s*$/);
ok($o =~ /Uses mXPUSHp/m);
ok($o =~ /^Needs to include.*ppport\h/m);
ok($o =~ /^Looks good/m);
ok($o =~ /^1 potentially required change detected/m);

So = ppport(qw(--nochanges --nohints file2.xs));
ok($o =~ /\s*$/);
ok($o =~ /Uses mXPUSHp/m);
ok($o =~ /^Needs to include.*ppport\h/m);
ok($o =~ /^Looks good/m);
ok($o =~ /^1 potentially required change detected/m);

So = ppport(qw(--nochanges --nohints --nodiag file2.xs));
ok($o =~ /\s*$/);
ok($o =~ /Uses mXPUSHp/m);
ok($o =~ /^Needs to include.*ppport\h/m);
ok($o =~ /^Looks good/m);
ok($o =~ /^1 potentially required change detected/m);

So = ppport(qw(--nochanges --quiet file2.xs));
ok($o =~ /\s*$/);

---------------------------- file1.xs -----------------------------------------

#define NEED\_newCONSTSUB
#define NEED\_sv\_2pv\_flags
# define NEED_PL_parser
#include "ppport.h"

newCONSTSUB();
SvPV_nolen();
PL_expect = 0;

---------------------------- file2.xs -----------------------------------------

mXPUSHp(foo);

===============================================================================

my $o = ppport(qw(--nochanges));
ok($o =~ /^Scanning.*FooBar.xs/mi);
ok($o =~ /Analyzing.*FooBar.xs/mi);
ok(matches($o, '^Scanning', 'm'), 1);
ok($o !~ /^Looks good/m);
ok($o =~ /^Uses grok_bin/m);

----------------------------- FooBar.xs --------------------------------------

newSViv();
XPUSHs(foo);
grok_bin();

===============================================================================

my $o = ppport(qw(--nochanges));
ok($o =~ /Scanning.*First.xs/mi);
ok($o =~ /Analyzing.*First.xs/mi);
ok($o =~ /Scanning.*second.h/mi);
ok($o =~ /Analyzing.*second.h/mi);
ok($o =~ /Scanning.*sub.*third.c/mi);
ok($o =~ /Analyzing.*sub.*third.c/mi);
ok($o !~ /Scanning.*foobar/mi);
ok(matches($o, '^Scanning', 'm'), 3);

----------------------------- First.xs ----------------------------------------

one

----------------------------- foobar.xyz --------------------------------------

two

----------------------------- second.h ----------------------------------------
my $o = ppport(qw(--nochanges));
ok($o =~ /Possibly wrong #define NEED_foobar in.*test.xs/i);

#define NEED_foobar

# And now some complex "real-world" example

my $o = ppport(qw(--copy=f));
for (qw(main.xs mod1.c mod2.c mod3.c mod4.c mod5.c)) {
    ok($o =~ /Scanning.*\Q$_\E/mi);
    ok($o =~ /Analyzing.*\Q$_\E/i);
}
ok(matches($o, '^Scanning', 'm'), 6);
ok(matches($o, '^Writing copy of', 'm'), 5);
ok(!-e "mod5.cf");

for (qw(main.xs mod1.c mod2.c mod3.c mod4.c)) {
    ok($o =~ /Writing copy of.*\Q$_\E.*with changes/mi);
    ok(-e "$\{._\}f");
    ok(eq_files("$\{._\}f", "$\{._\}r"));
    unlink "$\{._\}f";
}

#include "EXTERN.h"
#include "perl.h"
#include "XSUB.h"

#define NEED_newCONSTSUB
#define NEED_grok_hex_GLOBAL
#include "ppport.h"

newCONSTSUB();
grok_hex();
Perl_grok_bin(aTHX_ foo, bar);

/* some comment */

perl_eval_pv();
grok_bin();
Perl_grok_bin(bar, sv_no);

-------------------------- mod1.c --------------------------

#include "EXTERN.h"
#include "perl.h"
#include "XSUB.h"

#define NEED_grok_bin_GLOBAL
#define NEED_newCONSTSUB
#include "ppport.h"

newCONSTSUB();
grok_bin();
{
    Perl_croak ("foo");
    Perl_sv_catpvf(); /* I know it's wrong ;-) */
}

-------------------------- mod2.c --------------------------

#include "EXTERN.h"
#include "perl.h"
#include "XSUB.h"

#define NEED_eval_pv
#include "ppport.h"

newSViv();

/*
 eval_pv();
*/

-------------------------- mod3.c --------------------------

#include "EXTERN.h"
#include "perl.h"
#include "XSUB.h"

grok_oct();
eval_pv();
---------------------------- mod4.c -------------------------------------------

#include "EXTERN.h"
#include "perl.h"
#include "XSUB.h"

START_MY_CXT;

---------------------------- mod5.c -------------------------------------------

#include "EXTERN.h"
#include "perl.h"
#include "XSUB.h"
#include "ppport.h"
call_pv();

---------------------------- main.xsr -----------------------------------------

#include "EXTERN.h"
#include "perl.h"
#include "XSUB.h"

#define NEED_eval_pv_GLOBAL
#define NEED_grok_hex
#define NEED_newCONSTSUB_GLOBAL
#include "ppport.h"

ewCONSTSUB();
grok_hex();
grok_bin(foo, bar);

/* some comment */

eval_pv();
grok_bin();
grok_bin(bar, PL_sv_no);

---------------------------- mod1.cr ------------------------------------------

#include "EXTERN.h"
#include "perl.h"
#include "XSUB.h"

#define NEED_grok_bin_GLOBAL
#include "ppport.h"
newCONSTSUB();
grok_bin();
{
    Perl_croak (aTHX_ "foo");
    Perl_sv_catpvf(aTHX); /* I know it's wrong ;-) */
}

---------------------------- mod2.cr ------------------------------------------
#include "EXTERN.h"
#include "perl.h"
#include "XSUB.h"

newSViv();

/*
   eval_pv();
*/

---------------------------- mod3.cr ------------------------------------------
#include "EXTERN.h"
#include "perl.h"
#include "XSUB.h"
#define NEED_grok_oct
#include "ppport.h"

grok_oct();
eval_pv();

---------------------------- mod4.cr ------------------------------------------
#include "EXTERN.h"
#include "perl.h"
#include "XSUB.h"
#include "ppport.h"

START_MY_CXT;

===============================================================================

my $o = ppport(qw(--nochanges));
ok($o =~ /Uses grok_hex/m);
ok($o !~ /Looks good/m);

$o = ppport(qw(--nochanges --compat-version=5.8.0));
ok($o !~ /Uses grok_hex/m);
ok($o =~ /Looks good/m);

---------------------------------------- FooBar.xs ----------------------------------------
grok_hex();

class FooBar {
  #define NEED_grok_numeric_radix
}

my $o = ppport(qw(--nochanges));
ok($o =~ /Uses SvPVutf8_force, which may not be portable/m);

$o = ppport(qw(--nochanges --compat-version=5.5.3));
ok($o =~ /Uses SvPVutf8_force, which may not be portable/m);

$o = ppport(qw(--nochanges --compat-version=5.005_03));
ok($o =~ /Uses SvPVutf8_force, which may not be portable/m);

$o = ppport(qw(--nochanges --compat-version=5.6.0));
ok($o =~ /Uses SvPVutf8_force/m);

$o = ppport(qw(--nochanges --compat-version=5.006));
ok($o =~ /Uses SvPVutf8_force/m);

$o = ppport(qw(--nochanges --compat-version=5.999.999));
ok($o =~ /Uses SvPVutf8_force/m);

$o = ppport(qw(--nochanges --compat-version=6.0.0));
ok($o =~ /Only Perl 5 is supported/m);

$o = ppport(qw(--nochanges --compat-version=5.1000.999));
ok($o =~ /Invalid version number: 5.1000.999/m);

$o = ppport(qw(--nochanges --compat-version=5.999.1000));
ok($o =~ /Invalid version number: 5.999.1000/m);

---------------------------------------- FooBar.xs ----------------------------------------

SvPVutf8_force();

---------------------------------------- FooBar.xs ----------------------------------------

my $o = ppport(qw(--nochanges));
ok($o =~ /potentially required change/);
ok(matches($o, '^Looks good', 'm'), 2);

---------------------------------------- FooBar.xs ----------------------------------------

#define NEED_grok_numeric_radix
#define NEED_grok_number
#include "ppport.h"
GROK_NUMERIC_RADIX();
grok_number();
---------------------------- foo.c -------------------------------------------#include "ppport.h"
call_pv();
===============================================================================
# check --api-info option
my $o = ppport(qw(--api-info=INT2PTR));
my %found = map {($_ => 1)} $o =~ /^===\s+(\w+)\s+===/mg;
ok(scalar keys %found, 1);
ok(exists $found{INT2PTR});
ok(matches($o, '^Supported at least starting from perl-5\.6\.0\.', 'm'), 1);
ok(matches($o, '^Support by .*ppport.* provided back to perl-5\.003\.', 'm'), 1);
$o = ppport(qw(--api-info=Zero));
%found = map {($_ => 1)} $o =~ /^===\s+(\w+)\s+===/mg;
ok(scalar keys %found, 1);
ok(exists $found{Zero});
ok(matches($o, '^No portability information available\.', 'm'), 1);
$o = ppport(qw(--api-info=/Zero/));
%found = map {($_ => 1)} $o =~ /^===\s+(\w+)\s+===/mg;
ok(scalar keys %found, 2);
ok(exists $found{Zero});
ok(exists $found{ZeroD});
===============================================================================
# check --list-provided option
my @o = ppport(qw(--list-provided));
my %p;
my $fail = 0;
for (@o) {
my($name, $flags) = /^(\w+)(?:\s+\[(\w+(?:,\s+\w+)*)\])?$/ or $fail++;
exists $p{$name} and $fail++;
$p{$name} = defined $flags ? { map { ($_ => 1) } $flags =~ /(\w+)/g } : '';
}
ok(@o > 100);

Open Source Used In APIC-SE-BATMAN 2.1.1d 25647


Open Source Used In APIC-SE-BATMAN 2.1.1d

ok($fail, 0);

ok(exists $p{call_pv});
ok(not ref $p{call_pv});

ok(exists $p{grok_bin});
ok(ref $p{grok_bin}, 'HASH');
ok(scalar keys %{$p{grok_bin}}, 2);
ok($p{grok_bin}{explicit});
ok($p{grok_bin}{depend});

ok(exists $p{gv_stashpvn});
ok(ref $p{gv_stashpvn}, 'HASH');
ok(scalar keys %{$p{gv_stashpvn}}, 2);
ok($p{gv_stashpvn}{depend});
ok($p{gv_stashpvn}{hint});

ok(exists $p{sv_catpvf_mg});
ok(ref $p{sv_catpvf_mg}, 'HASH');
ok(scalar keys %{$p{sv_catpvf_mg}}, 2);
ok($p{sv_catpvf_mg}{explicit});
ok($p{sv_catpvf_mg}{depend});

ok(exists $p{PL_signals});
ok(ref $p{PL_signals}, 'HASH');
ok(scalar keys %{$p{PL_signals}}, 1);
ok($p{PL_signals}{explicit});

# check --list-unsupported option

my @o = ppport(qw(--list-unsupported));
my %p;
my $fail = 0;
for (@o) {
    my($name, $ver) = /^\(\w+\)\s*\.[^.]\+\s*([\d._]+)$/ or $fail++;
    exists $p{$name} and $fail++;
    $p{$name} = $ver;
}
ok(@o > 100);
ok($fail, 0);

ok(exists $p{utf8_distance});
ok($p{utf8_distance}, '5.6.0');

ok(exists $p{save_generic_svref});
ok($p{save_generic_svref}, '5.005_03');
# check --nofilter option

my $o = ppport(qw(--nochanges));
ok($o =~ /Scanning.*foo\.cpp/mi);
ok($o =~ /Analyzing.*foo\.cpp/mi);
ok(matches($o, 'Scanning', 'm'), 1);
ok(matches($o, 'Analyzing', 'm'), 1);

$o = ppport(qw(--nochanges --nofilter foo\.cpp foo\.o Makefile\.PL));
ok($o =~ /Skipping the following files \(use --nofilter to avoid this\):/m);
ok(matches($o, '\s+foo\.o', 'mi'), 1);
ok(matches($o, '\s+Makefile\.PL', 'mi'), 1);
ok($o =~ /Scanning.*foo\.cpp/mi);
ok($o =~ /Analyzing.*foo\.cpp/mi);
ok(matches($o, 'Scanning', 'm'), 1);
ok(matches($o, 'Analyzing', 'm'), 1);

$o = ppport(qw(--nochanges --nofilter foo\.cpp foo\.o Makefile\.PL));
ok($o =~ /Scanning.*foo\.cpp/mi);
ok($o =~ /Analyzing.*foo\.cpp/mi);
ok($o =~ /Scanning.*foo\.o/mi);
ok($o =~ /Analyzing.*foo\.o/mi);
ok($o =~ /Scanning.*Makefile/mi);
ok($o =~ /Analyzing.*Makefile/mi);
ok(matches($o, 'Scanning', 'm'), 3);
ok(matches($o, 'Analyzing', 'm'), 3);

---------------------------- foo\.cpp ------------------------------------------
newSViv();

---------------------------- foo\.o --------------------------------------------
newSViv();

---------------------------- Makefile\.PL --------------------------------------
newSViv();

# check if explicit variables are handled properly

my $o = ppport(qw(--copy=a));
ok($o =~ /Needs to include.*ppport\.h/m);
ok($o =~ /^Uses PL_signals/m);
ok($o =~ /^File needs PL_signals, adding static request/m);
ok(eq_files('MyExt.xsa', 'MyExt.ra'));

unlink qw(MyExt.xsa);

------------------------ MyExt.xs -------------------------------

PL_signals = 123;
if (PL_signals == 42)
foo();

------------------------ MyExt.ra -------------------------------

#define NEED_PL_signals
#include "ppport.h"
PL_signals = 123;
if (PL_signals == 42)
foo();

===============================================================================

my $o = ppport(qw(--nochanges file.xs));
ok($o =~ /^Uses PL_copline/m);
ok($o =~ /WARNING: PL_copline/m);
ok($o =~ /^Uses SvUOK/m);
ok($o =~ /WARNING: Uses SvUOK, which may not be portable/m);
ok($o =~ /^Analysis completed (2 warnings)/m);
ok($o =~ /^Looks good/m);

So = ppport(qw(--nochanges --compat-version=5.8.0 file.xs));
ok($o =~ /^Uses PL_copline/m);
ok($o =~ /WARNING: PL_copline/m);
ok($o =~ /WARNING: Uses SvUOK, which may not be portable/m);
ok($o =~ /^Analysis completed (1 warning)/m);
ok($o =~ /^Looks good/m);

------------------------ file.xs -------------------------------

#define NEED_PL_parser
#include "ppport.h"
SvUOK
PL_copline

===============================================================================

my $o = ppport(qw(--copy=f));
for (qw(file.xs)) {
    ok($o =~ /^Writing copy of.*\Q$_\E.*with changes/mi);
    ok(-e "${_}f");
    ok(eq_files("${_}f", "${_}r");
    unlink "${_}f";
}

--------------------------------- file.xs -----------------------------------

a_string = "sv_undef"
a_char = 'sv_yes'
define SOMETHING defgv
/* C-comment: sv_tainted */
#
# This is just a big XS comment using sv_no
#
/* The following, is NOT an XS comment! */
# define SOMETHING_ELSE defgv + \s
  sv_undef

--------------------------------- file.xsr -----------------------------------

#include "ppport.h"
a_string = "sv_undef"
a_char = 'sv_yes'
define SOMETHING PL_defgv
/* C-comment: sv_tainted */
#
# This is just a big XS comment using sv_no
#
/* The following, is NOT an XS comment! */
# define SOMETHING_ELSE PL_defgv + \ PL_sv_undef

my $o = ppport(qw(--copy=f));

for (qw(file.xs)) {
    ok($o =~ /^Writing copy of.*\Q$_\E.*with changes/mi);
    ok(-e "${_}f");
    ok(eq_files("${_}f", "${_}r");
    unlink "${_}f";
}

---------------------------- file.xs -----------------------------------------

#define NEED_sv_2pv_flags
#define NEED_vnewSVpvf
#define NEED_warner
#include "ppport.h"
Perl_croak_nocontext("foo");
Perl_croak("bar");
croak("foo");
croak_nocontext("foo");
Perl_warner_nocontext("foo");
Perl_warner("foo");
warner_nocontext("foo");
warn("foo");

---------------------------- file.xsr -------------------------------

#define NEED_sv_2pv_flags
#define NEED_vnewSVpvf
#define NEED_warner
#include "ppport.h"
Perl_croak_nocontext("foo");
Perl_croak(aTHX_ "bar");
croak("foo");
croak_nocontext("foo");
Perl_warner_nocontext("foo");
Perl_warner(aTHX_ "foo");
warner_nocontext("foo");
warn("foo");

Found in path(s):
No license file was found, but licenses were detected in source scan.

# This program is free software; you can redistribute it and/or
# modify it under the same terms as Perl itself.
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.

##########################################################################
##
## 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.

### Implementation

```c
__UNDEFINED__
PERL_UNUSED_DECL
PERL_UNUSED_ARG
PERL_UNUSED_VAR
PERL_UNUSED_CONTEXT
PERL_UNUSED_RESULT
PERL_GCC_BRACE_GROUPS_FORBIDDEN
PERL_USE_GCC_BRACE_GROUPS
PERLIO_FUNCS_DECL
PERLIO_FUNCS_CAST
NVTYPE
INT2PTR
PTRV
NUM2PTR
PERL_HASH
PTR2IV
PTR2UV
PTR2NV
PTR2ul
START_EXTERN_C
END_EXTERN_C
EXTERN_C
STMT_START
STMT_END
UTF8_MAXBYTES
WIDEST_UTYPE
XSRETURN
HeUTF8
C_ARRAY_LENGTH
C_ARRAY_END
SvRX
SvRXOK
PERL_MAGIC_qr
cBOOL
OpHAS_SIBLING
OpSIBLING
OpMORESIB_set
OpLASTSIB_set
OpMAYBESIB_set

=implementation
```
__UNDEFINED__ PERL_MAGIC_qr 'r'

__UNDEFINED__ cBOOL(cbool) ((cbool) ? (bool)1 : (bool)0)
__UNDEFINED__ OpHAS_SIBLING(o) (cBOOL((o)->op_sibling))
__UNDEFINED__ OpSIBLING(o) (0 + (o)->op_sibling)
__UNDEFINED__ OpMORESIB_set(o, sib) ((o)->op_sibling = (sib))
__UNDEFINED__ OpLASTSIB_set(o, parent) ((o)->op_sibling = NULL)
__UNDEFINED__ OpMAYBESIB_set(o, sib, parent) ((o)->op_sibling = (sib))

#ifndef SvRX
#if [ NEED SvRX ]

void *
SvRX(pTHX_SV *rv)
{
if (SvROK(rv)) {
SV *sv = SvRV(rv);
if (SvMAGICAL(sv)) {
MAGIC *mg = mg_find(sv, PERL_MAGIC_qr);
if (mg && mg->mg_obj) {
return mg->mg_obj;
}
}
return 0;
}
#endif
#endif

__UNDEFINED__ SvRXOK(sv) (!!SvRX(sv))

#endif PERL_UNUSED_DECL
#if define HASATTRIBUTE
# if (defined(_GNUC_) && defined(__cplusplus)) || defined(_INTEL_COMPILER)
# define PERL_UNUSED_DECL
# else
# define PERL_UNUSED_DECL __attribute__((unused))
# endif
# else
# define PERL_UNUSED_DECL
# endif
#endif

#ifndef PERL_UNUSED_ARG
#if defined(lint) && defined(S_SPLINT_S) /* www.splint.org */
#include <note.h>
#define PERL_UNUSED_ARG(x) NOTE(ARGUNUSED(x))
#endif
#endif
# else
#   define PERL_UNUSED_ARG(x) ((void)x)
#endif

#ifndef PERL_UNUSED_VAR
#   define PERL_UNUSED_VAR(x) ((void)x)
#endif

#ifndef PERL_UNUSED_CONTEXT
#   ifdef USE_ITHREADS
#     define PERL_UNUSED_CONTEXT PERL_UNUSED_ARG(my_perl)
#   else
#     define PERL_UNUSED_CONTEXT
#   endif
#endif

#ifndef PERL_UNUSED_RESULT
#   if defined(__GNUC__) && defined(HASATTRIBUTE_WARN_UNUSED_RESULT)
#     define PERL_UNUSED_RESULT(v) STMT_START { __typeof__(v) z = (v); (void)sizeof(z); } STMT_END
#   else
#     define PERL_UNUSED_RESULT(v) ((void)(v))
#   endif
#endif

__UNDEFINED__  NOOP          /*EMPTY*/(void)0
__UNDEFINED__  dNOOP         extern int /*@unused@*/ Perl___notused PERL_UNUSED_DECL

#ifndef NVTYPE
#   if defined(USE_LONG_DOUBLE) && defined(HAS_LONG_DOUBLE)
#     define NVTYPE long double
#   else
#     define NVTYPE double
#   endif
typedef NVTYPE NV;
#endif

#ifndef INT2PTR
#   if (IVSIZE == PTRSIZE) && (UVSIZE == PTRSIZE)
#     define PTRV                  UV
#     define INT2PTR(any,d)        (any)(d)
#   else
#     if PTRSIZE == LONGSIZE
#       define PTRV                unsigned long
#     else
#       define PTRV                unsigned
#     endif
#     define INT2PTR(any,d)        (any)(PTRV)(d)
#endif

Open Source Used In APIC-SE-BATMAN 2.1.1d  25655
# endif
#endif

#ifndef PTR2ul
# if PTRSIZE == LONGSIZE
# define PTR2ul(p)    (unsigned long)(p)
# else
# define PTR2ul(p)    INT2PTR(unsigned long,p)
#endif
#endif

#define START_EXTERN_C
#define END_EXTERN_C
#define EXTERN_C extern

#if defined(PERL_GCC_PEDANTIC)
# ifndef PERL_GCC_BRACE_GROUPS_FORBIDDEN
# define PERL_GCC_BRACE_GROUPS_FORBIDDEN
# endif
# ifndef __GNUC__ && !defined(PERL_GCC_BRACE_GROUPS_FORBIDDEN) && !defined(__cplusplus)
# define PERL_USE_GCC_BRACE_GROUPS
# endif
#endif

#undef STMT_START
#undef STMT_END
#ifndef PERL_USE_GCC_BRACE_GROUPS
#define STMT_START    (void)( /* gcc supports "({ STATEMENTS; })" */
#define STMT_END      )
#else

Open Source Used In APIC-SE-BATMAN 2.1.1d 25656
# if defined(VOIDFLAGS) && (VOIDFLAGS) && (defined(sun) || defined(__sun__)) && !defined(__GNUC__)
# define STMT_START if (1)
# define STMT_END else (void)0
# else
# define STMT_START do
# define STMT_END while (0)
# endif
#endif

__UNDEFINED__ boolSV(b) ((b) ? &PL_sv_yes : &PL_sv_no)

/* DEFSV appears first in 5.004_56 */
__UNDEFINED__ DEFSV GvSV(PL_defgv)
__UNDEFINED__ SAVE_DEFSV SAVESPTR(GvSV(PL_defgv))
__UNDEFINED__ DEFSV_set(sv) (DEFSV = (sv))

/* Older perls (<=5.003) lack AvFILLp */
__UNDEFINED__ AvFILLp AvFILL

__UNDEFINED__ ERRSV get_sv("@",FALSE)

/* Hint: gv_stashpvn */
* This function's backport doesn't support the length parameter, but
* rather ignores it. Portability can only be ensured if the length
* parameter is used for speed reasons, but the length can always be
* correctly computed from the string argument.
*/
__UNDEFINED__ gv_stashpvn(str,len,create) gv_stashpv(str,create)

/* Replace: 1 */
__UNDEFINED__ get_cv perl_get_cv
__UNDEFINED__ get_sv perl_get_sv
__UNDEFINED__ get_av perl_get_av
__UNDEFINED__ get_hv perl_get_hv
/* Replace: 0 */
__UNDEFINED__ dUNDERBAR dNOOP
__UNDEFINED__ UNDERBAR DEFSV
__UNDEFINED__ dAX I32 ax = MARK - PL_stack_base + 1
__UNDEFINED__ dITEMS I32 items = SP - MARK
__UNDEFINED__ dXSTARG SV * targ = sv_newmortal()
__UNDEFINED__ dAXMARK I32 ax = POPMARK;
                register SV ** const mark = PL_stack_base + ax++
__UNDEFINED__ XSprePUSH (sp = PL_stack_base + ax - 1)

#if { VERSION < 5.005 }
# undef XSRETURN
# define XSRETURN(off) \
STMT_START { \
    PL_stack_sp = PL_stack_base + ax + ((off) - 1); \
    return; \
} STMT_END
#endif

__UNDEFINED__ XSPROTO(name) void name(pTHX.CV* cv)

__UNDEFINED__ SVfARG(p) ((void*)(p))

__UNDEFINED__ PERL_ABS(x) ((x) < 0 ? -(x) : (x))

__UNDEFINED__ dVAR dNOOP

__UNDEFINED__ SVf "_

__UNDEFINED__ UTF8_MAXBYTES UTF8_MAXLEN

__UNDEFINED__ CPERLscope(x) x

__UNDEFINED__ PERL_HASH(hash,str,len) \
STMT_START { \
    const char *s_PeRIHaSh = str; \
    I32 i_PeRIHaSh = len; \
    U32 hash_PeRIHaSh = 0; \
    while (i_PeRIHaSh--) \n        hash_PeRIHaSh = hash_PeRIHaSh * 33 + *s_PeRIHaSh++; \n    (hash) = hash_PeRIHaSh; \
} STMT_END

#ifndef PERLIO_FUNCS_DECL
#ifndef PERLIO_FUNCS_CONST
#define PERLIO_FUNCS_DECL(funcs) const PerlIO_funcs funcs
#define PERLIO_FUNCS_CAST(funcs) (PerlIO_funcs*)(funcs)
#else
#define PERLIO_FUNCS_DECL(funcs) PerlIO_funcs funcs
#define PERLIO_FUNCS_CAST(funcs) (funcs)
#endif
#endif

/* provide these typedefs for older perls */
#if { VERSION < 5.9.3 }

Open Source Used In APIC-SE-BATMAN 2.1.1d 25658
# ifdef ARGSproto
typedef OP* (CPERLscope(*Perl_ppaddr_t))(ARGSproto);
#else
typedef OP* (CPERLscope(*Perl_ppaddr_t))(pTHX);
#endif

typedef OP* (CPERLscope(*Perl_check_t)) (pTHX OP*);

__UNDEFINED__ isPSXSPC(c)       (isSPACE(c) || (c) == '\v')
__UNDEFINED__ isBLANK(c)        ((c) == ' ' || (c) == '\t')
#ifdef EBCDIC
__UNDEFINED__ isALNUMC(c)       isalnum(c)
__UNDEFINED__ isASCII(c)        isascii(c)
__UNDEFINED__ isCNTRL(c)        iscntrl(c)
__UNDEFINED__ isGRAPH(c)        isgraph(c)
__UNDEFINED__ isPRINT(c)        isprint(c)
__UNDEFINED__ isPUNCT(c)        ispunct(c)
__UNDEFINED__ isXDIGIT(c)       isxdigit(c)
#else
# if { VERSION < 5.10.0 }
/* Hint: isPRINT
 * The implementation in older perl versions includes all of the
 * isSPACE() characters, which is wrong. The version provided by
 * Devel::PPPort always overrides a present buggy version.
 */
# undef isPRINT
# endif
#endif #define WIDEST_UTYPE U64TYPE
__UNDEFINED__ isALNUMC(c)       (isALPHA(c) || isDIGIT(c))
__UNDEFINED__ isASCII(c)        ((WIDEST_UTYPE) (c) <= 127)
__UNDEFINED__ isCNTRL(c)        ((WIDEST_UTYPE) (c) < ' ' || (c) == 127)
__UNDEFINED__ isGRAPH(c)        (isALNUM(c) || isPUNCT(c))
__UNDEFINED__ isPRINT(c)        (((c) >= 32 && (c) < 127)
| ((c) >= 33 && (c) <= 47) || ((c) >= 58 && (c) <= 64) || ((c) >= 91 && (c) <= 96)
| ((c) >= 123 && (c) <= 126))
__UNDEFINED__ isPUNCT(c)        (((c) >= 33 && (c) <= 47) || ((c) >= 58 && (c) <= 64) || ((c) >= 91 && (c) <= 96)
| ((c) >= 123 && (c) <= 126))
__UNDEFINED__ isXDIGIT(c)       (isDIGIT(c) || ((c) == 'a' && (c) <= 'f') || ((c) == 'A' && (c) <= 'F'))
#endif

/* Until we figure out how to support this in older perls... */
#if { VERSION >= 5.8.0 }

__UNDEFINED__ HeUTF8(he)    ((HeKLEN(he) == HEf_SVKEY) ? 
SvUTF8(HeKEY_sv(he)) : 
(U32)HeKUTF8(he))

#endif

__UNDEFINED__ C_ARRAY_LENGTH(a)(sizeof(a)/sizeof((a)[0]))
__UNDEFINED__ C_ARRAY_END(a)((a) + C_ARRAY_LENGTH(a))

=xsmisc
typedef XSPROTO(XSPROTO_test_t);
typedef XSPROTO_test_t *XSPROTO_test_t_ptr;

XS(XS_Devel__PPPort_dXSTARG); /* prototype */
XS(XS_Devel__PPPort_dXSTARG)
{
    dXSARGS;
    dXSTARG;
    IV iv;

    PERL_UNUSED_VAR(cv);
    SP -= items;
    iv = SvIV(ST(0)) + 1;
    PUSHi(iv);
    XSRETURN(1);
}

XS(XS_Devel__PPPort_dAXMARK); /* prototype */
XS(XS_Devel__PPPort_dAXMARK)
{
    dSP;
    dAXMARK;
    dITEMS;
    IV iv;

    PERL UNUSED_VAR(cv);
    SP -= items;
    iv = SvIV(ST(0)) - 1;
    mPUSHi(iv);
    XSRETURN(1);
}
=xsinit

#define NEED_SvRX

=xsboot

{
  XSPROTO_test_t_ptr p = &XS_Devel__PPPort_dXSTARG;
  newXS("Devel::PPPort::dXSTARG", *p, file);
}
newXS("Devel::PPPort::dAXMARK", XS_Devel__PPPort_dAXMARK, file);

=xsubs

int
OpSIBLING_tests()
PREINIT:
  OP *x;
  OP *kid;
  OP *lastkid;
  int count = 0;
  int failures = 0;
  int i;
CODE:
x = newOP(OP_PUSHMARK, 0);
/* No siblings yet! */
if (OpHAS_SIBLING(x) || OpSIBLING(x)) {
  failures++; warn("Op should not have had a sib");
}

/* Add 2 siblings */
kid = x;

  for (i = 0; i < 2; i++) {
    OP *newsib = newOP(OP_PUSHMARK, 0);
    OpMORESIB_set(kid, newsib);

    kid = OpSIBLING(kid);
    lastkid = kid;
  }
  /* Should now have a sibling */
  if (! OpHAS_SIBLING(x) || ! OpSIBLING(x) ) {
    failures++; warn("Op should have had a sib after moreSIB_set");
  }

Open Source Used In APIC-SE-BATMAN 2.1.1d 25661
/* Count the siblings */
for (kid = OpSIBLING(x); kid; kid = OpSIBLING(kid)) {
    count++;
}

if (count != 2) {
    failures++; warn("Kid had %d sibs, expected 2", count);
}

if (OpHAS_SIBLING(lastkid) || OpSIBLING(lastkid)) {
    failures++; warn("Last kid should not have a sib");
}

/* Really sets the parent, and says 'no more siblings' */
OpLASTSIB_set(x, lastkid);

if (OpHAS_SIBLING(x) || OpSIBLING(x)) {
    failures++; warn("OpLASTSIB_set failed?");
}

/* Restore the kid */
OpMORESIB_set(x, lastkid);

/* Try to remove it again */
OpLASTSIB_set(x, NULL);

if (OpHAS_SIBLING(x) || OpSIBLING(x)) {
    failures++; warn("OpLASTSIB_set with NULL failed?");
}

/* Try to restore with maybesib_set */
OpMAYBESIB_set(x, lastkid, NULL);

if (! OpHAS_SIBLING(x) || ! OpSIBLING(x)) {
    failures++; warn("Op should have had a sib after maybesibset");
}

RETVAL = failures;
OUTPUT:
RETVAL

int
SvRXOK(sv)
SV *sv
CODE:
RETVAL = SvRXOK(sv);
OUTPUT:
RETVAL
int

ptrtests()

    PREINIT:
    int var, *p = &var;

    CODE:
    RETVAL = 0;
    RETVAL += PTR2nat(p) != 0 ? 1 : 0;
    RETVAL += PTR2ul(p) != 0UL ? 2 : 0;
    RETVAL += PTR2UV(p) != (UV) 0 ? 4 : 0;
    RETVAL += PTR2IV(p) != (IV) 0 ? 8 : 0;
    RETVAL += PTR2NV(p) != (NV) 0 ? 16 : 0;
    RETVAL += p > NUM2PTR(int *, 0) ? 32 : 0;

    OUTPUT:
    RETVAL

int
gv_stashpvn(name, create)
    char *name
    I32 create
    CODE:
    RETVAL = gv_stashpvn(name, strlen(name), create) != NULL;
    OUTPUT:
    RETVAL

int
get_sv(name, create)
    char *name
    I32 create
    CODE:
    RETVAL = get_sv(name, create) != NULL;
    OUTPUT:
    RETVAL

int
get_av(name, create)
    char *name
    I32 create
    CODE:
    RETVAL = get_av(name, create) != NULL;
    OUTPUT:
    RETVAL

int
get_hv(name, create)
    char *name
I32 create
CODE:
    RETVAL = get_hv(name, create) != NULL;
OUTPUT:
    RETVAL

int
get_cv(name, create)
    char *name
    I32 create
CODE:
    RETVAL = get_cv(name, create) != NULL;
OUTPUT:
    RETVAL

void
xsreturn(two)
    int two
PPCODE:
    mXPUSHp("test1", 5);
    if (two)
        mXPUSHp("test2", 5);
    if (two)
        XSRETURN(2);
    else
        XSRETURN(1);

SV*
boolSV(value)
    int value
CODE:
    RETVAL = newSVsv(boolSV(value));
OUTPUT:
    RETVAL

SV*
DEFSV()
CODE:
    RETVAL = newSVsv(DEFSV);
OUTPUT:
    RETVAL

void
DEFSV_modify()
PPCODE:
    XPUSHs(sv_mortalcopy(DEFSV));
    ENTER;
    SAVE_DEF SV;
DEFSV_set(newSVpvs("DEFSV"));  
XPUSHs(sv_mortalcopy(DEFSV));  
/* Yes, this leaks the above scalar; 5.005 with threads for some reason */  
/* frees it upon LEAVE, thus mortalizing it causes "attempt to free..." */  
/* sv_2mortal(DEFSV); */  
LEAVE;  
XPUSHs(sv_mortalcopy(DEFSV));  
XSRETURN(3);  

int  
ERRSV()  
CODE:  
   RETVAL = SvTRUE(ERRSV);  
OUTPUT:  
   RETVAL  

SV*  
UNDERBAR()  
CODE:  
   {  
      dUNDERBAR;  
      RETVAL = newSVsv(UNDERBAR);  
   }  
OUTPUT:  
   RETVAL  

void  
prepush()  
CODE:  
   {  
      dXSTARG;  
      XSprePUSH;  
      PUSHi(42);  
      XSRETURN(1);  
   }  

int  
PERL_ABS(a)  
   int a  

void  
SVf(x)  
   SV *x  
   PPCODE:  
   #if { VERSION >= 5.004 }  
      x = sv_2mortal(newSVpvf("[%"SVf"]", SVfARG(x)));  
   #endif  
   XPUSHs(x);  

XSRETURN(1);

void
Perl_ppaddr_t(string)
    char *string
PREINIT:
    Perl_ppaddr_t lower;
PPCODE:
    lower = PL_ppaddr[OP LC];
    mXPUSHs(newSVpv(string, 0));
    PUTBACK;
    ENTER;
    (void)*(lower)(aTHXR);
    SPAGAIN;
    LEAVE;
    XSRETURN(1);

#if { VERSION >= 5.8.0 }

void
check_HeUTF8(utf8_key)
    SV *utf8_key;
PREINIT:
    HV *hash;
    HE *ent;
    STRLEN klen;
    char *key;
PPCODE:
    hash = newHV();

    key = SvPV(utf8_key, klen);
    if (SvUTF8(utf8_key)) klen *= -1;
    hv_store(hash, key, klen, newSVpvs("string"), 0);
    hv_iterinit(hash);
    ent = hv_iternext(hash);
    assert(ent);
    mXPUSHp((HeUTF8(ent) == 0 ? "norm" : "utf8"), 4);
    hv_undef(hash);
#endif

void
check_c_array()
PREINIT:
    int x[] = { 10, 11, 12, 13 };
PPCODE:
    mXPUSHi(C_ARRAY_LENGTH(x)); /* 4 */
mXPUSHi(*(C_ARRAY_END(x)-1)); /* 13 */

=tests plan => 48

use vars qw($my_sv @my_av %my_hv);

ok(&Devel::PPPort::boolSV(1));
ok(!&Devel::PPPort::boolSV(0));

$_ = "Fred";
ok(&Devel::PPPort::DEFSV(), "Fred");
ok(&Devel::PPPort::UNDERBAR(), "Fred");

if ($] >= 5.009002 && $] < 5.023 && $] < 5.023004) {
  eval q{
    no warnings "deprecated";
    no if $^V > v5.17.9, warnings => "experimental::lexical_topic";
    my $_ = "Tony";
    ok(&Devel::PPPort::DEFSV(), "Fred");
    ok(&Devel::PPPort::UNDERBAR(), "Tony");
  };
} else {
  ok(1);
  ok(1);
}

my @r = &Devel::PPPort::DEFSV_modify();

ok(@r == 3);
ok($r[0], 'Fred');
ok($r[1], 'DEFSV');
ok($r[2], 'Fred');

ok(&Devel::PPPort::DEFSV(), "Fred");

eval { 1 };
ok(!&Devel::PPPort::ERRSV());
eval { cannot_call_this_one() };
ok(&Devel::PPPort::ERRSV());

ok(&Devel::PPPort::gv_stashpvn('Devel::PPPort', 0));
ok(&Devel::PPPort::gv_stashpvn('does:not:exist', 0));
ok(&Devel::PPPort::gv_stashpvn('does:not:exist', 1));

$my_sv = 1;
ok(&Devel::PPPort::get_sv('my_sv', 0));
ok(!&Devel::PPPort::get_sv('not_my_sv', 0));
ok(&Devel::PPPort::get_sv('not_my_sv', 1));

@my_av = (1);
ok(&Devel::PPPort::get_av('my_av', 0));
ok(&Devel::PPPort::get_av('not_my_av', 0));
ok(&Devel::PPPort::get_av('not_my_av', 1));

%my_hv = (a=>1);
ok(&Devel::PPPort::get_hv('my_hv', 0));
ok(!&Devel::PPPort::get_hv('not_my_hv', 0));
ok(&Devel::PPPort::get_hv('not_my_hv', 1));

sub my_cv { 1 };
ok(&Devel::PPPort::get_cv('my_cv', 0));
ok(&Devel::PPPort::get_cv('not_my_cv', 0));
ok(&Devel::PPPort::get_cv('not_my_cv', 1));

ok(Devel::PPPort::dXSTARG(42), 43);
ok(Devel::PPPort::dAXMARK(4711), 4710);
ok(Devel::PPPort::prepush(), 42);

ok(join(':', Devel::PPPort::xsreturn(0)), 'test1');
ok(join(':', Devel::PPPort::xsreturn(1)), 'test1:test2');

ok(Devel::PPPort::PERL_ABS(42), 42);
ok(Devel::PPPort::PERL_ABS(-13), 13);

ok(Devel::PPPort::SVf(42), $] >= 5.004 ? '[42]' : '42');
ok(Devel::PPPort::SVf('abc'), $] >= 5.004 ? ['abc'] : 'abc');

ok(&Devel::PPPort::Perl_ppaddr_t("FOO"), "foo");

ok(&Devel::PPPort::ptrtests(), 63);
ok(&Devel::PPPort::OpSIBLING_tests(), 0);

if ($] >= 5.009000) {
  eval q{
    ok(&Devel::PPPort::check_HeUTF8("hello"), "norm");
    ok(&Devel::PPPort::check_HeUTF8("\N{U+263a}"), "utf8");
  };
} else {
  ok(1, 1);
  ok(1, 1);
}

@r = &Devel::PPPort::check_c_array();
ok($r[0], 4);
ok($r[1], "13");

ok(!Devel::PPPort::SvRXOK(""));
ok(!Devel::PPPort::SvRXOK(bless [], "Regexp"));

if ($] < 5.005) {
    skip 'no qr// objects in this perl', 0;
    skip 'no qr// objects in this perl', 0;
} else {
    my $qr = eval 'qr/./';
    ok(Devel::PPPort::SvRXOK($qr));
    ok(Devel::PPPort::SvRXOK(bless $qr, "Surprise"));
}

---
abstract: Perl/Pollution/Portability
author:
    - 'Marcus Holland-Moritz <mhx@cpan.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 2.150001'
license: perl
meta-spec:
    url: http://module-build.sourceforge.net/META-spec-v1.4.html
    version: '1.4'
name: Devel-PPPort
no_index:
directory:
    - t
    - inc
resources:
    bugtracker: https://github.com/mhx/Devel-PPPort/issues/
    repository: git://github.com/mhx/Devel-PPPort.git
    version: '3.36'

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################################################################################
##
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## 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.
##
################################################################################
=provides
__UNDEFINED__
newSVpvn_flags
=implementation
#if { VERSION < 5.6.0 }
# define D_PPP_CONSTPV_ARG(x) ((char *) (x))
#else
# define D_PPP_CONSTPV_ARG(x) (x)
#endif
__UNDEFINED__ newSVpvn(data,len) ((data)
? ((len) ? newSVpv((data), (len)) : newSVpv("", 0)) \
: newSV(0))

\

__UNDEFINED__ newSVpvn_utf8(s, len, u) newSVpvn_flags((s), (len), (u) ? SVf_UTF8 : 0)
__UNDEFINED__ SVf_UTF8 0
#ifndef newSVpvn_flags
#if { NEED newSVpvn_flags }
SV *
newSVpvn_flags(pTHX_ const char *s, STRLEN len, U32 flags)
{
SV *sv = newSVpvn(D_PPP_CONSTPV_ARG(s), len);
SvFLAGS(sv) |= (flags & SVf_UTF8);
return (flags & SVs_TEMP) ? sv_2mortal(sv) : sv;
}
#endif

Open Source Used In APIC-SE-BATMAN 2.1.1d 25670


#endif

=xsin

#define NEED_newSVpvn_flags

=xsubs

void
newSVpvn()

PPCODE:
mXPUSHs(newSVpvn("test", 4));
mXPUSHs(newSVpvn("test", 2));
mXPUSHs(newSVpvn("test", 0));
mXPUSHs(newSVpvn(NULL, 2));
mXPUSHs(newSVpvn(NULL, 0));
XSRETURN(5);

void
newSVpvn_flags()

PPCODE:
XPUSHs(newSVpvn_flags("test", 4, SVs_TEMP));
XPUSHs(newSVpvn_flags("test", 2, SVs_TEMP));
XPUSHs(newSVpvn_flags("test", 0, SVs_TEMP));
XPUSHs(newSVpvn_flags(NULL, 2, SVs_TEMP));
XPUSHs(newSVpvn_flags(NULL, 0, SVs_TEMP));
XSRETURN(5);

void
newSVpvn_utf8()

PPCODE:
XPUSHs(newSVpvn_flags("test", 4, SVs_TEMP|SVf_UTF8));
XSRETURN(1);

=tests plan => 15

my @s = &Devel::PPPort::newSVpvn();
ok(@s == 5);
ok($s[0], "test");
ok($s[1], "te");
ok($s[2], "");
ok(!defined($s[3]));
ok(!defined($s[4]));

@s = &Devel::PPPort::newSVpvn_flags();
ok(@s == 5);
ok($s[0], "test");
ok($s[1], "te");
ok($s[2], "");
ok(!defined($s[3]));
ok(!defined($s[4]));

@s = &Devel::PPPort::newSVpvn_utf8();
ok(@s == 1);
ok($s[0], "test");

if ($] >= 5.008001) {
    require utf8;
    ok(utf8::is_utf8($s[0]));
} else {
    skip("skip: no is_utf8()", 0);
}

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#  ppport_h.PL -- generate ppport.h
#
#  This program is free software; you can redistribute it and/or
#  modify it under the same terms as Perl itself.
#
package Devel::PPPort;
require "./PPPort.pm";
rename 'ppport.h', 'ppport.old' if -f 'ppport.h';
unlink "ppport.old" if WriteFile("ppport.h") && -f 'ppport.h';

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* /opt/cola/permits/1139281956_1614508108.19/0/perl-Devel-PPPort-3.36-5.el8-1.src.rpm-cosi-expand-archive-
* /opt/cola/permits/1139281956_1614508108.19/0/perl-Devel-PPPort-3.36-5.el8-1.src.rpm-cosi-expand-archive-
* /opt/cola/permits/1139281956_1614508108.19/0/perl-Devel-PPPort-3.36-5.el8-1.src.rpm-cosi-expand-archive-
* /opt/cola/permits/1139281956_1614508108.19/0/perl-Devel-PPPort-3.36-5.el8-1.src.rpm-cosi-expand-archive-
* /opt/cola/permits/1139281956_1614508108.19/0/perl-Devel-PPPort-3.36-5.el8-1.src.rpm-cosi-expand-archive-
* /opt/cola/permits/1139281956_1614508108.19/0/perl-Devel-PPPort-3.36-5.el8-1.src.rpm-cosi-expand-archive-
* /opt/cola/permits/1139281956_1614508108.19/0/perl-Devel-PPPort-3.36-5.el8-1.src.rpm-cosi-expand-archive-
* /opt/cola/permits/1139281956_1614508108.19/0/perl-Devel-PPPort-3.36-5.el8-1.src.rpm-cosi-expand-archive-
* /opt/cola/permits/1139281956_1614508108.19/0/perl-Devel-PPPort-3.36-5.el8-1.src.rpm-cosi-expand-archive-

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=================================================================================================

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###
### This program is free software; you can redistribute it and/or
### modify it under the same terms as Perl itself.
###
###=================================================================================================

=provides
my_strlcat
my_strlcpy

=implementation

#if !defined(my_strlcat)
#if { NEED my_strlcat }

Size_t

Open Source Used In APIC-SE-BATMAN 2.1.1d 25673
my_strlcat(char *dst, const char *src, Size_t size)
{
    Size_t used, length, copy;

    used = strlen(dst);
    length = strlen(src);
    if (size > 0 && used < size - 1) {
        copy = (length >= size - used) ? size - used - 1 : length;
        memcpy(dst + used, src, copy);
        dst[used + copy] = '\0';
    }
    return used + length;
}
#endif
#endif
#if !defined(my_strlcpy)
#if { NEED my_strlcpy }
Size_t
my_strlcpy(char *dst, const char *src, Size_t size)
{
    Size_t length, copy;
    length = strlen(src);
    if (size > 0) {
        copy = (length >= size) ? size - 1 : length;
        memcpy(dst, src, copy);
        dst[copy] = '\0';
    }
    return length;
}
#endif
#endif
#define NEED_my_strlcat
#define NEED_my_strlcpy
=xsin
#define NEED_my_strlcat
#define NEED_my_strlcpy
=xsub

void
my_strlfunc()
{
    char buf[8];
    int len;
}
PPCODE:

```c
len = my_strlcpy(buf, "foo", sizeof(buf));
mXPUSHHi(len);
mXPUSHs(newSVpv(buf, 0));
len = my_strlcat(buf, "bar", sizeof(buf));
mXPUSHHi(len);
mXPUSHs(newSVpv(buf, 0));
len = my_strlcat(buf, "baz", sizeof(buf));
mXPUSHHi(len);
mXPUSHs(newSVpv(buf, 0));
len = my_strlcpy(buf, "1234567890", sizeof(buf));
mXPUSHHi(len);
mXPUSHs(newSVpv(buf, 0));
len = my_strlcpy(buf, "1234", sizeof(buf));
mXPUSHHi(len);
mXPUSHs(newSVpv(buf, 0));
len = my_strlcat(buf, "567890123456", sizeof(buf));
mXPUSHHi(len);
mXPUSHs(newSVpv(buf, 0));
XSRETURN(12);
```

```perl
=tests plan => 13

my @e = (3, 'foo',
    6, 'foobaz',
    9, 'foobard',
    10, '1234567',
    12, '1234',
    16, '1234567',
);
my @r = Devel::PPPort::my_strlfunc();

ok(@e == @r);

for (0 .. $#e) {
    ok($r[$_], $e[$_]);
}

Found in path(s):
* /opt/cola/permits/1139281956_1614508108.19/0/perl-Devel-PPPort-3.36-5.el8-1.src.rpm-cosi-expand-archive-
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```

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=provides
dXCPT
XCPT_TRY_START
XCPT_TRY_END
XCPT_CATCH
XCPT_RETHROW

=implementation

ifdef NO_XSLOCKS
    ifdef dJMPENV
        define dXCPT   dJMPENV; int rEtV = 0
        define XCPT_TRY_START   JMPENV_PUSH(rEtV); if (rEtV == 0)
        define XCPT_TRY_END     JMPENV_POP;
        define XCPT_CATCH       if (rEtV != 0)
        define XCPT_RETHROW     JMPENV_JUMP(rEtV)
    else
        define dXCPT   Sigjmp_buf oldTOP; int rEtV = 0
        define XCPT_TRY_START   Copy(top_env, oldTOP, 1, Sigjmp_buf); rEtV = Sigsetjmp(top_env, 1); if (rEtV == 0)
        define XCPT_TRY_END     Copy(oldTOP, top_env, 1, Sigjmp_buf);
        define XCPT_CATCH       if (rEtV != 0)
        define XCPT_RETHROW     Siglongjmp(top_env, rEtV)
    endif
endif

=xmisc

/* defined in module3.c */
int exception(int throw_e);

=xsubs

int
exception(throw_e)
int throw_e
OUTPUT:
    RETVAL

=tests plan => 7
my $rv;

$Devel::PPPort::exception_caught = undef;

$rv = eval { &Devel::PPPort::exception(0) };  
ok($@, "");  
ok(defined $rv);  
ok($rv, 42);  
ok($Devel::PPPort::exception_caught, 0);

$Devel::PPPort::exception_caught = undef;

$rv = eval { &Devel::PPPort::exception(1) };  
ok($@, "boo
");  
ok(not defined $rv);  
ok($Devel::PPPort::exception_caught, 1);

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/1139281956_1614508108.19/0/perl-Devel-PPPort-3.36-5.el8-1.src.rpm-cosi-expand-archive- 2uitCuFR/perl-Devel-PPPort.spec
No license file was found, but licenses were detected in source scan.

#******************************************************************************
##
## 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.
##
******************************************************************************

=provides

=dontwarn

NEED_function
NEED_function_GLOBAL
NEED_variable
NEED_variable_GLOBAL
DPPP_NAMESPACE

=implementation

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version __VERSION__

=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 __MIN_PERL__, and has been tested up to __MAX_PERL__.

=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 __MIN_PERL__. 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:

    #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.

__EXPLICIT_API__

To avoid namespace conflicts, you can change the namespace of the
explicitly exported functions / variables using the C<DPPP_NAMESPACE>
macro. Just C<#define> the macro before including C<ppport.h>:

#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running
F<ppport.h> on your source code. See the next section for
details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you
should make any changes to your code, and whether any special defines
should be used, F<ppport.h> can be run as a Perl script to check your
source code. Simply say:

perl ppport.h

The result will usually be a list of patches suggesting changes
that should at least be acceptable, if not necessarily the most
efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in
newer Perl releases, if you're aware that it uses C++ comments,
and if you want all suggestions as a single patch file, you could
use something like this:

perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions
for changes, use:

perl ppport.h --nochanges

You can specify a different C<diff> program or options, using the C<--diff> option:

perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function, use:

perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use

perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

perl ppport.h --api-info=/

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report here: L<https://github.com/mhx/Devel-PPPort/issues/>

Please include the following information:

=over 4

=item 1.
The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2013, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

Found in path(s):

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******************************************************************************
##
## Version 3.x, Copyright (C) 2004-2013, Marcus Holland-Moritz.
use strict;

# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = __VERSION__;
if ($@ 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(_\PERL_API_
);

if (exists $opt{\'list-unsupported\'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};
        print "$f\n", x(40-length($f)), "\n", format_version($API{$f}{todo}), "\n";
    }
    exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n
}
undef $define;
}
}
$define = [$1, $2] if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};
if ($function) {
if (/^}/) {

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if (exists $API{$function->[0]}) {
    my @n = find_api($function->[1]);
    push @{$depends{$function->[0]}}{ @n } if @n
}
undef $function;
}
else {
    $function->[1] .= $_;
}

if (m{'^\w+$rccs\+$replace:$s+(*\$rcces*$)};
$replace = $1 if m{'^\w*$rccs\+$replace:$s+(\d+)$s+$rcces*$};
$replace[2] = $1 if m{'^\w*$#s*define\s+\+$w+.$s+$rcces*$};
$replace[1] = $2 if m{'^\w*$rccs\+$replace:(\+$w+.$s+$rcces*$)};
if (m{'^\w*$rccs\+$w+.$s+$w+.*\s+depends\s+\+$w+.$s+$rcces*$}) {
    my @deps = map { s/$/; $/ } split /,/, $3;
    my $d;
    for $d (map { s/$/; $/ } split /,/, $1) {
        push @{$depends{$d}}{ @deps }
    }
}

$need{$1} = 1 if m{'^\w+\+$w+.$s+defined\+$w+.$s+$rcces*$};
}
for (values %depends) {
    my %s;
    $._ = [sort grep !$s{$._}++, @$_]
}
if (exists $opt{'api-info'}) {
    my $;
    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]);
            my $info += 1;
            print "Supported at least starting from perl-$base:\n";
            $info++;
        }
        if ($API{$f}[provided]) {
            print "\n\nProvided by $f:\n\n";
            my $provided = format_version($API{$f}[provided]);
            my $info += 1;
            print "Supported at least starting from perl-$provided:\n";
            $info++;
        }
    }
my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "__MIN_PERL__";
print "Support by $ppport provided back to perl-$todo.
";
print "Support needs to be explicitly requested by NEED_$f unless $need{$f};
print "Depends on: `, join(' ', @{$depends{$f}}), `.
" unless $depends{$f};
print "Shints\n" unless $Shints{$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 \n opt{api-info}\n":";
print "\n";
exit 0;
}
if (exists $opt{'list-provided'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $API{$f}{provided};
    my @flags;
    push @flags, 'explicit' if exists $need{$f};
    push @flags, 'depend'   if exists $depends{$f};
    push @flags, 'hint'     if exists $hints{$f};
    push @flags, 'warning'  if exists $warnings{$f};
    my $flags = @flags ? '[join(', ', @flags)].' : ";
    print "$f$flags\n";
}
exit 0;
}
my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;
if (@ARGV) {
    my %seen;
    for (@ARGV) {
        if (-e) {
            if (-f) {
                push @files, $_ unless $seen{$_}++;
            }
            else { warn "\n$_ is not a file.\n" }
        }
        else { warn "\n$_ does not exist.\n";
            push @files, grep { !$seen{$_}++ } @new;
        }
    }
}
}
}
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);

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# Temporarily remove C/XS comments and strings from the code
my @ccom;

$sce = s{
( '^\S*#\S*include[\^\r\n]+\b(?:QSppport\E|XSUB\b)b[^\r\n]*
| '^\S*#\S*(?:define|elif|if(?::def)?)b[^\r\n]*
| ('^\S*[^\s]+('^\S*[^\s]+)*
| "[^"\s]*"
| '\[^'\s]*'
| / (?: \[^/]*
| /[^/]*(?:[^\]^\s)* )
)}{ defined $2 and push @ccom, $2;
  defined $1 ? "$ccs$#ccom$cce" }mgsex;

$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^\S*#\S*include[^\r\n]+\b\QSppport\E\b/m;

my $func;

for $func (keys %API) {
  my $match = $func;
  $match .= "$revreplace{$func}" if exists $revreplace{$func};
  if ($c =~ /Ab(?:Per|L)\b|$match\b/) {
    $file{uses_replace}{$func}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
    $file{uses_Pperl}{$func}++ if $c =~ /AbPerl\b$/;
    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 =~ /$func\b/) {
        $file{uses_todo}{$func}++;
      }
    }
  }
}

if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
  if ($c =~ /\b$func\b/) {
    $file{uses_todo}{$func}++;
  }
}
}
while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");
my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;
for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {
unless ($API{$func}{nothxarg}) {

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my $changes = ($c =~ s{|Perl_$func$\(.*\)\(.*\)\(|Perl_$func$\(\)|\)|\}.{$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{|Perl_$func\(.*\)\(.*\)\(|\$.func(\}|g);
}
for $func (sort keys %{$file{uses_replace}}) {
    warning("Uses $func instead of $replace{$func}");
    $file{changes} += ($c =~ s{|\bPerl_$func\b\$func\/$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 '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+$incl\b.*$PP//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_.*?)/$1$pp/ms)
    || ($c =~ s/^(!=$HS*#$HS*include.*?)/$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.*?$/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) {
            $newfile = "$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: $!");
    }
}
elseif (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, $c);
    }
}
elseif ($file{changes} == 1) {
    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/\$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+)?\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"
  }
}

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"
    }
    $s /= 10;

    $ver = sprintf "%d.%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 @_, 
}

sub diag {
}
$opt{quiet} and return;
$opt{diag} and print @_, "\n";
}

sub warning
{
$opt{quiet} and return;
print "***\n", @_, "\n";
}

sub error
{
print "*** ERROR: \n", @_, "\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+\$/^X $0/;
$usage =~ s/\[A-Z]<(\^[*]+)>/$M{\1}$/g;
print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE;

Usage: $usage
exit 2;
}

sub strip
{
    my $self = do { local(@ARGV,$/)=($0); <> }
    my($copy) = $self =~ /=head\d\s+COPYRIGHT\s*\((.*)\)\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 }
        \$@ 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

END

my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
$c =~ s{    / (?: \*[^\*]*\*+(?:[^$ccs]\[^*]*\*+)* / | /[^\r\n\*]*
| ( "[^"\\]*(?:\\..[^"\\]*)*"
| \[^\*]*\(\?\:\[\^[\*]*\]\^\*\)
| \(\^[\]\^\*]*\(\?\:\[\^[\*]*\]\^\*\)
| \(\^[\]\^\*\) \[ defined S2 "'? : (S1 \"") ] gsex;
$c =~ s!^s+$!!mg;
$c =~ s!^SLF!!mg;
$c =~ s!^s*#s*!#mg;
$c =~ s!^s+!+mg;

open OUT, ">$0" or die "cannot strip $0: $!";
print OUT "$^X$pl$c
"
exit 0;
}

Found in path(s):
No license file was found, but licenses were detected in source scan.

# typemap -- XS type mappings not present in early perls
#
UV                      T_UV
NV                      T_NV
HV *                    T_HVREF
STRLEN                  T_UV

INPUT
T_UV
$var = ($type)SvUV($arg)
T_NV
$var = ($type)SvNV($arg)
T_HVREF
if (SvROK($arg) && SvTYPE(SvRV($arg))==SVt_PVHV)
   $var = (HV*)SvRV($arg);
else
   Perl_croak(aTHX_ \"$var is not a hash reference\"

OUTPUT
T_UV
   sv_setuv($arg, (UV)$var);
T_NV
   sv_setnv($arg, (NV)$var);

Found in path(s):
* /opt/cola/permits/1139281956_1614508108.19/0/perl-Devel-PPPort-3.36-5.el8-1.src.rpm-cosi-expand-archive-
No license file was found, but licenses were detected in source scan.

=provides

SvREFCNT_inc
SvREFCNT_inc_simple
SvREFCNT_inc_NN
SvREFCNT_inc_void
__UNDEFINED__

=implementation

#ifndef SvREFCNT_inc
#  ifdef PERL_USE_GCC_BRACE_GROUPS
#    define SvREFCNT_inc(sv)            
#      ({                                
#         SV * const _sv = (SV*)(sv);   
#         if (_sv)                      
#            (SvREFCNT(_sv))++;       
#         _sv;                          
#      })
#  else
#    define SvREFCNT_inc(sv)    
#      ((PL_Sv=(SV*)(sv)) ? (++(SvREFCNT(PL_Sv)),PL_Sv) : NULL)
#  endif
#endif

#endif

#ifndef SvREFCNT_inc_simple
#  ifdef PERL_USE_GCC_BRACE_GROUPS
#    define SvREFCNT_inc_simple(sv)     
#      ({                                        
#        if (sv)                               
#          (SvREFCNT(sv))++;                
#        (SV *)(sv);                           
#      })
#  else
#    define SvREFCNT_inc_simple(sv)    
#      ((PL_Sv=(SV*)(sv)) ? (++(SvREFCNT(PL_Sv)),PL_Sv) : NULL)
#  endif
#endif
# define SvREFCNT_inc_simple(sv) 
  ((sv) ? (SvREFCNT(sv)++, (SV*)(sv)) : NULL)

# endif
#endif

#ifndef SvREFCNT_inc_NN
#ifdef PERL_USE_GCC_BRACE_GROUPS
#define SvREFCNT_inc_NN(sv)         
  ({                                        
    SV * const _sv = (SV*)(sv);   
    SvREFCNT(_sv)++;              
    _sv;                          
  })
#else
#define SvREFCNT_inc_NN(sv) 
  (PL_Sv=(SV*)(sv), ++(SvREFCNT(PL_Sv)), PL_Sv)
#endif
#endif
#ifndef SvREFCNT_inc_void
#ifdef PERL_USE_GCC_BRACE_GROUPS
#define SvREFCNT_inc_void(sv)               
  ({                                        
    SV * const _sv = (SV*)(sv);   
    if (_sv)                      
      (void)(SvREFCNT(_sv)++);  
  })
#else
#define SvREFCNT_inc_void(sv) 
  (void)((PL_Sv=(SV*)(sv)) ? ++(SvREFCNT(PL_Sv)) : 0)
#endif
#endif

__UNDEFINED__  SvREFCNT_inc_simple_void(sv)     STMT_START { if (sv) SvREFCNT(sv)++; }
STMT_END
__UNDEFINED__  SvREFCNT_inc_simple_NN(sv)       (++SvREFCNT(sv), (SV*)(sv))
__UNDEFINED__  SvREFCNT_inc_void_NN(sv)         (void)(++SvREFCNT((SV*)(sv)))
__UNDEFINED__  SvREFCNT_inc_simple_void_NN(sv)  (void)(++SvREFCNT((SV*)(sv)))

=xsubs

void
SvREFCNT()

  PREINIT:
    SV *sv, *svr;
  PPCODE:
    sv = newSV(0);
    mXPUSHi(SvREFCNT(sv) == 1);
svr = SvREFCNT_inc(sv);
mXPUSHi(sv == svr);
mXPUSHi(SvREFCNT(sv) == 2);
svr = SvREFCNT_inc_simple(sv);
mXPUSHi(sv == svr);
mXPUSHi(SvREFCNT(sv) == 3);
svr = SvREFCNT_inc_NN(sv);
mXPUSHi(sv == svr);
mXPUSHi(SvREFCNT(sv) == 4);
svr = SvREFCNT_inc_simple_NN(sv);
mXPUSHi(sv == svr);
mXPUSHi(SvREFCNT(sv) == 5);
SvREFCNT_inc_void(sv);
mXPUSHi(SvREFCNT(sv) == 6);
SvREFCNT_inc_simple_void(sv);
mXPUSHi(SvREFCNT(sv) == 7);
SvREFCNT_incVoid_NN(sv);
mXPUSHi(SvREFCNT(sv) == 8);
SvREFCNT_inc_simple_void_NN(sv);
mXPUSHi(SvREFCNT(sv) == 9);
while (SvREFCNT(sv) > 1)
  SvREFCNT_dec(sv);
mXPUSHi(SvREFCNT(sv) == 1);
SvREFCNT_dec(sv);
XSRETURN(14);

tests plan => 14

for (Devel::PPPort::SvREFCNT()) {
  ok(defined $_[0] and $_[1]);
}

Found in path(s):
* /opt/cola/permits/1139281956_1614508108.19/0/perl-Devel-PPPort-3.36-5.el8-1.src.rpm-cosi-expand-archive-

No license file was found, but licenses were detected in source scan.

........................................................................................................
  :         Perl/Pollution/Portability
  :
........................................................................................................
  :         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.
:
: This file lists all API functions/macros that are provided purely
: by Devel::PPPort. It is in the same format as the F<embed.fnc> that
: ships with the Perl source code.
:

Am  |void  |sv_magic_portable|NN SV* sv|NULLOK SV* obj|int how|NULLOK const char* name |
   |I32 namlen

Found in path(s):
No license file was found, but licenses were detected in source scan.

*****************************************************************************
##
##  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.
##
*****************************************************************************

=provides

__UNDEFINED__

=implementation

/* concatenating with "" ensures that only literal strings are accepted as argument
* note that STR_WITH_LEN() can't be used as argument to macros or functions that
* under some configurations might be macros
*/

__UNDEFINED__  STR_WITH_LEN(s)             (s ""), (sizeof(s)-1)
__UNDEFINED__  newSVpvs(str)               newSVpvn(str "" , sizeof(str) - 1)
__UNDEFINED__  newSVpvs_flags(str, flags)  newSVpvn_flags(str "" , sizeof(str) - 1, flags)
__UNDEFINED__  newSVpvs_share(str)         newSVpvn_share(str "" , sizeof(str) - 1, 0)
__UNDEFINED__  sv_catpvs(sv, str)          sv_catpvn(sv, str "" , sizeof(str) - 1)
__UNDEFINED__  sv_setpvs(sv, str)          sv_setpvn(sv, str "" , sizeof(str) - 1)
__UNDEFINED__  hv_fetchs(hv, key, lval)    hv_fetch(hv, key "" , sizeof(key) - 1, lval)

Open Source Used In APIC-SE-BATMAN 2.1.1d 25706
void newSVpvs()  
PPCODE:
   mXPUSHs(newSVpvs("newSVpvs"));  
   XSRETURN(1);

void newSVpvs_flags()  
PPCODE:
   XPUSHs(newSVpvs_flags("newSVpvs_flags", SVs_TEMP));  
   XSRETURN(1);

int newSVpvs_share()  
PREINIT:
   SV *sv;  
   U32 hash;
CODE:
   RETVAL = 0;  
   PERL_HASH(hash, "pvs", 3);  
   sv = newSVpvs_share("pvs");  
   RETVAL += strEQ(SvPV_nolen_const(sv), "pvs");  
   RETVAL += SvCUR(sv) == 3;  
   RETVAL += SvSHARED_HASH(sv) == hash;  
   SvREFCNT_dec(sv);  
OUTPUT:
   RETVAL

void sv_catpvs(sv)  
   SV *sv  
   PPCODE:
      sv_catpvs(sv, "sv_catpvs");

void
sv_setpvs(sv)
   SV *sv
   PPCODE:
   sv_setpvs(sv, "sv_setpvs");

void
hv_fetchs(hv)
   SV *hv
   PREINIT:
   SV **s;
   PPCODE:
   s = hv_fetchs((HV *) SvRV(hv), "hv_fetchs", 0);
   XPUSHs(sv_mortalcopy(*s));
   XSRETURN(1);

void
hv_stores(hv, sv)
   SV *hv
   SV *sv
   PPCODE:
   (void) hv_stores((HV *) SvRV(hv), "hv_stores", SvREFCNT_inc_simple(sv));

SV*
gv_fetchpvs()
   CODE:
   RETVAL = newRV_inc((SV*)gv_fetchpvs("Devel::PPPort::VERSION", 0, SVt_PV));
   OUTPUT:
   RETVAL

SV*
gv_stashpvs()
   CODE:
   RETVAL = newRV_inc((SV*)gv_stashpvs("Devel::PPPort", 0));
   OUTPUT:
   RETVAL

int
get_cvs()
   PREINIT:
   CV* xv;
   CODE:
   RETVAL = 0;
   xv = get_cvs("Devel::PPPort::foobar", 0);
   if(xv == NULL) RETVAL++;
   xv = get_cvs("Devel::PPPort::foobar", GV_ADDMULTI);
   if(xv && SvTYPE(xv) == SVt_PVCV) RETVAL++;
   xv = get_cvs("Devel::PPPort::get_cvs", 0);
   if(xv && SvTYPE(xv) == SVt_PVCV) RETVAL++;
OUTPUT:
    RETVAL

=testsl plan => 12

my $x = 'foo';

ok(Devel::PPPort::newSVpvs(), "newSVpvs");
ok(Devel::PPPort::newSVpvs_flags(), "newSVpvs_flags");
ok(Devel::PPPort::newSVpvs_share(), 3);

Devel::PPPort::sv_catpvs($x);
ok($x, "foosv_catpvs");

Devel::PPPort::sv_setpvs($x);
ok($x, "sv_setpvs");

my %h = ('hv_fetchs' => 42);
Devel::PPPort::hv_stores(%h, 4711);
ok(scalar keys %h, 2);
ok(exists $h{'hv_stores'});
ok($h{'hv_stores'}, 4711);
ok(Devel::PPPort::hv_fetchs(%h), 42);
ok(Devel::PPPort::gv_fetchpvs(), \*Devel::PPPort::VERSION);
ok(Devel::PPPort::gv_stashpvs(), \%Devel::PPPort::);

ok(Devel::PPPort::get_cvs(), 3);

Found in path(s):

No license file was found, but licenses were detected in source scan.

******************************************************************************
## 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.
#
******************************************************************************

=provides

PERL_REVISION
PERL_VERSION
PERL_SUBVERSION
PERL_BCDVERSION

dontwarn

PERL_PATCHLEVEL_H_IMPLICIT
_dpppDEC2BCD

implementation

#ifndef PERL_REVISION
  if !(defined(PERL_VERSION) || defined(SUBVERSION))
    include <could_not_find_Perl_patchlevel.h>
  endif
#endif

#define _dpppDEC2BCD(dec) ((((dec)/100)<<8)|((((dec)%100)/10)<<4)|((dec)%10))
#define PERL_BCDVERSION
  (_dpppDEC2BCD(PERL_REVISION)<<24|_dpppDEC2BCD(PERL_VERSION)<<12|_dpppDEC2BCD(PERL
_SUBVERSION))

/* It is very unlikely that anyone will try to use this with Perl 6
   (or greater), but who knows.
*/
#if PERL_REVISION != 5
  error ppport.h only works with Perl version 5
#endif /* PERL_REVISION != 5 */

Found in path(s):
No license file was found, but licenses were detected in source scan.

#******************************************************************************
##
=provides

__UNDEFINED__
ckWARN
warner
Perl_warner
Perl_warner_nocontext

=implementation

__UNDEFINED__ WARN_ALL 0
__UNDEFINED__ WARN_CLOSURE 1
__UNDEFINED__ WARN_DEPRECATED 2
__UNDEFINED__ WARN_EXITING 3
__UNDEFINED__ WARN_GLOB 4
__UNDEFINED__ WARN_IO 5
__UNDEFINED__ WARN_CLOSED 6
__UNDEFINED__ WARN_EXEC 7
__UNDEFINED__ WARN_LAYER 8
__UNDEFINED__ WARN_NEWLINE 9
__UNDEFINED__ WARN_PIPE 10
__UNDEFINED__ WARN_UNOPENED 11
__UNDEFINED__ WARN_MISC 12
__UNDEFINED__ WARN_NUMERIC 13
__UNDEFINED__ WARN_ONCE 14
__UNDEFINED__ WARN_OVERFLOW 15
__UNDEFINED__ WARN_PACK 16
__UNDEFINED__ WARN_PORTABLE 17
__UNDEFINED__ WARN_RECURSION 18
__UNDEFINED__ WARN_REDEFINE 19
__UNDEFINED__ WARN_REGEXP 20
__UNDEFINED__ WARN_SEVERE 21
__UNDEFINED__ WARN_DEBUGGING 22
__UNDEFINED__ WARN_INPLACE 23
__UNDEFINED__ WARN_INTERNAL 24
__UNDEFINED__ WARN_MALLOC 25
__UNDEFINED__ WARN_SIGNAL 26
__UNDEFINED__ WARN_SUBSTR 27
__UNDEFINED__ WARN_SYNTAX 28
#ifndef ckWARN
#  ifdef G_WARN_ON
#    define  ckWARN(a)                  (PL_dowarn & G_WARN_ON)
#  else
#    define  ckWARN(a)                  PL_dowarn
#  endif
#endif

#define warner  Perl_warner

void
warner(U32 err, const char *pat, ...) {
  SV *sv;
  va_list args;

  PERL_UNUSED_ARG(err);

  va_start(args, pat);
  sv = vnewSVpvf(pat, &args);
  va_end(args);
  sv_2mortal(sv);
  warn("%s", SvPV_nolen(sv));
}
#define Perl_warner_nocontext Perl_warner

#endif
#endif

=xsinit

#define NEED_warner

=xsubs

void
warner()
    CODE:
#if { VERSION >= 5.004 }
    warner(packWARN(WARN_MISC), "warner %s:%d", "bar", 42);
#endif

void
Perl_warner()
    CODE:
#if { VERSION >= 5.004 }
    Perl_warner(aTHX_ packWARN(WARN_MISC), "Perl_warner %s:%d", "bar", 42);
#endif

void
Perl_warner_nocontext()
    CODE:
#if { VERSION >= 5.004 }
    Perl_warner_nocontext(packWARN(WARN_MISC), "Perl_warner_nocontext %s:%d", "bar", 42);
#endif

void
ckWARN()
    CODE:
#if { VERSION >= 5.004 }
    if (ckWARN(WARN_MISC))
        Perl_warner_nocontext(packWARN(WARN_MISC), "ckWARN %s:%d", "bar", 42);
#endif

=tests plan => 5

$^W = 0;

my $warning;

$SIG{'__WARN__'} = sub { $warning = $_[0] };
$warning = "";
Devel::PPPort::warner();
ok($] >= 5.004 ? $warning =~ /^warner bar:42/ : $warning eq "");

$warning = "";
Devel::PPPort::Perl_warner();
ok($] >= 5.004 ? $warning =~ /^Perl_warner bar:42/ : $warning eq "");

$warning = "";
Devel::PPPort::Perl_warner_nocontext();
ok($] >= 5.004 ? $warning =~ /^Perl_warner_nocontext bar:42/ : $warning eq "");

$warning = "";
Devel::PPPort::ckWARN();
ok($warning, "");

$^W = 1;

$warning = "";
Devel::PPPort::ckWARN();
ok($] >= 5.004 ? $warning =~ /^ckWARN bar:42/ : $warning eq "");

Found in path(s):
  * /opt/cola/permits/1139281956_1614508108.19/0/perl-Devel-PPPort-3.36-5.el8-1.src.rpm-cosi-expand-archive-
No license file was found, but licenses were detected in source scan.

*******************************************************************************
##
##  Version 3.x, Copyright (C) 2004-2013, Marcus Holland-Moritz.
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##  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.
##
*******************************************************************************

=provides

__UNDEFINED__
aTHXR
aTHXR_
dTHXR

=implementation
__UNDEFINED__ dTHR dNOOP
__UNDEFINED__ dTHX dNOOP
__UNDEFINED__ dTHXa(x) dNOOP

__UNDEFINED__ pTHX void
__UNDEFINED__ pTHX_
__UNDEFINED__ aTHX
__UNDEFINED__ aTHX_

#if { VERSION < 5.6.0 }
#  ifdef USE_THREADS
#    define aTHXR thr
#    define aTHXR_ thr,
#  else
#    define aTHXR
#    define aTHXR_
#  endif
#  define dTHXR dTHR
#else
#  define aTHXR aTHX
#  define aTHXR_ aTHX_
#  define dTHXR dTHX
#endif

__UNDEFINED__ dTHXoa(x) dTHXa(x)

=xsubs

IV
no_THX_arg(sv)
   SV *sv
   CODE:
      RETVAL = 1 + sv_2iv(sv);
   OUTPUT:
      RETVAL

void
with_THX_arg(error)
   char *error
   PPCODE:
      Perl_croak(aTHX_ "%s", error);

=tests plan => 2
ok(&Devel::PPPort::no_THX_arg("42"), 43);
eval { &Devel::PPPort::with_THX_arg("yes
"); };
ok($@ =~ /^yes/);
Found in path(s):
No license file was found, but licenses were detected in source scan.

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Found in path(s):
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###########################################################################
##
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##
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## modify it under the same terms as Perl itself.
##
###########################################################################

=provides

mg_findext
sv_unmagicext

__UNDEFINED__
/sv_/w+/mg/
sv_magic_portable
MUTABLE_PTR
MUTABLE_SV

=implementation

__UNDEFINED__ SvGETMAGIC(x) STMT_START { if (SvGMAGICAL(x)) mg_get(x); } STMT_END

/* Some random bits for sv_unmagicext. These should probably be pulled in for
 real and organized at some point */

__UNDEFINED__ HEf_SVKEY -2
#ifndef MUTABLE_PTR
#if defined(__GNUC__) && !defined(PERL_GCC_BRACE_GROUPS_FORBIDDEN)
#define MUTABLE_PTR(p) ({ void *_p = (p); _p; })
#else
#define MUTABLE_PTR(p) ((void *) (p))
#endif
#endif

__UNDEFINED__ MUTABLE_SV(p)   ((SV *)MUTABLE_PTR(p))

/* end of random bits */

__UNDEFINED__ PERL_MAGIC_sv   '0'
__UNDEFINED__ PERL_MAGIC_overload    'A'
__UNDEFINED__ PERL_MAGIC_overload_elem   'a'
__UNDEFINED__ PERL_MAGIC_overload_table 'c'
__UNDEFINED__ PERL_MAGIC_bm          'B'
__UNDEFINED__ PERL_MAGIC_regdata      'D'
__UNDEFINED__ PERL_MAGIC_regdatum     'd'
__UNDEFINED__ PERL_MAGIC_env         'E'
__UNDEFINED__ PERL_MAGIC_envelem      'e'
__UNDEFINED__ PERL_MAGIC_fm          'f'
__UNDEFINED__ PERL_MAGIC_regex_global 'g'
__UNDEFINED__ PERL_MAGIC_isa          'I'
__UNDEFINED__ PERL_MAGIC_isaelem      'i'
__UNDEFINED__ PERL_MAGIC_nkeys        'k'
__UNDEFINED__ PERL_MAGIC_dbfile       'L'
__UNDEFINED__ PERL_MAGIC_dbline       'l'
__UNDEFINED__ PERL_MAGIC_mutex        'm'
__UNDEFINED__ PERL_MAGIC_shared       'N'
__UNDEFINED__ PERL_MAGIC_shared_scalar 'n'
__UNDEFINED__ PERL_MAGIC_collxfrm     'o'
__UNDEFINED__ PERL_MAGIC_tied         'P'
__UNDEFINED__ PERL_MAGIC_tiedelem     'p'
__UNDEFINED__ PERL_MAGIC_tiedscalar   'q'
__UNDEFINED__ PERL_MAGIC_qr           'r'
__UNDEFINED__ PERL_MAGIC_sig          'S'
__UNDEFINED__ PERL_MAGIC_sigelem      's'
__UNDEFINED__ PERL_MAGIC_taint        't'
__UNDEFINED__ PERL_MAGIC_uvar         'U'
__UNDEFINED__ PERL_MAGIC_uvar Elem    'u'
__UNDEFINED__ PERL_MAGIC_vstring      'V'
__UNDEFINED__ PERL_MAGIC_vec          'v'
__UNDEFINED__ PERL_MAGIC_utf8         'w'
__UNDEFINED__ PERL_MAGIC_substr       'x'
__UNDEFINED__ PERL_MAGIC_deelem       'y'
__UNDEFINED__ PERL_MAGIC_magic        'z'
/* That's the best we can do... */

 ifndef sv_catpv_mg

 # define sv_catpv_mg(sv, ptr) STMT_START { SV *TempSv = sv; sv_catpv(TempSv,ptr); SvSETMAGIC(TempSv); } STMT_END

 #endif

define sv_catpv_mg

 # define sv_catpv_mg(sv, ptr, len) STMT_START { SV *TempSv = sv; sv_catpvn(TempSv,ptr,len); SvSETMAGIC(TempSv); } STMT_END

 #endif

 ifndef sv_catsv_mg

 # define sv_catsv_mg(dsv, ssv) STMT_START { SV *TempSv = dsv; sv_catsv(TempSv,ssv); SvSETMAGIC(TempSv); } STMT_END

 #endif

 ifndef sv_setiv_mg

 # define sv_setiv_mg(sv, i) STMT_START { SV *TempSv = sv; sv_setiv(TempSv,i); SvSETMAGIC(TempSv); } STMT_END

 #endif
#ifndef sv_setnv_mg
#  define sv_setnv_mg(sv, num)          
  STMT_START {                         
  SV *TeMpSv = sv;                   
  sv_setnv(TeMpSv,num);              
  SvSETMAGIC(TeMpSv);                
  } STMT_END
#endif

#ifndef sv_setpv_mg
#  define sv_setpv_mg(sv, ptr)          
  STMT_START {                         
  SV *TeMpSv = sv;                   
  sv_setpv(TeMpSv,ptr);              
  SvSETMAGIC(TeMpSv);                
  } STMT_END
#endif

#ifndef sv_setpvn_mg
#  define sv_setpvn_mg(sv, ptr, len)    
  STMT_START {                         
  SV *TeMpSv = sv;                   
  sv_setpvn(TeMpSv,ptr,len);         
  SvSETMAGIC(TeMpSv);                
  } STMT_END
#endif

#ifndef sv_setsv_mg
#  define sv_setsv_mg(dsv, ssv)         
  STMT_START {                         
  SV *TeMpSv = dsv;                  
  sv_setsv(TeMpSv,ssv);              
  SvSETMAGIC(TeMpSv);                
  } STMT_END
#endif

#ifndef sv_setuv_mg
#  define sv_setuv_mg(sv, i)            
  STMT_START {                         
  SV *TeMpSv = sv;                   
  sv_setuv(TeMpSv,i);                
  SvSETMAGIC(TeMpSv);                
  } STMT_END
#endif

#ifndef sv_usepvn_mg
#  define sv_usepvn_mg(sv, ptr, len)    


STMT_START {
    SV *TeMpSv = sv;
    sv_usepvn(TeMpSv, ptr, len);
    SvSETMAGIC(TeMpSv);
} STMT_END
#endif

#if { VERSION < 5.004 }
/* code that uses sv_magic_portable will not compile */
#elif { VERSION < 5.8.0 }
#define sv_magic_portable(sv, obj, how, name, namlen)     
STMT_START {                                             
    SV *SvMp_sv = (sv);                                    
    char *SvMp_name = (char *) (name);                     
    I32 SvMp_namlen = (namlen);                            
    if (SvMp_name && SvMp_namlen == 0)                     
    {                                                      
        MAGIC *mg;                                         
        sv_magic(SvMp_sv, obj, how, 0, 0);                 
        mg = SvMAGIC(SvMp_sv);                             
        mg->mg_len = -42; /* XXX: this is the tricky part */\        mg->mg_ptr = SvMp_name;                             
    }                                                      
    else                                                   
    {                                                      
        sv_magic(SvMp_sv, obj, how, SvMp_name, SvMp_namlen);\   
    }                                                      
} STMT_END
#endif

#undef sv_magic_portable
#define sv_magic_portable(sv, obj, how, name, namlen)  sv_magic(sv, obj, how, name, namlen)

/* Hint: sv_magic_portable
* This is a compatibility function that is only available with
* Devel::PPPort. It is NOT in the perl core.
* Its purpose is to mimic the 5.8.0 behaviour of sv_magic() when
* it is being passed a name pointer with namlen == 0. In that
* case, perl 5.8.0 and later store the pointer, not a copy of it.
* The compatibility can be provided back to perl 5.004. With
* earlier versions, the code will not compile.
*/

#if { VERSION < 5.004 }
/* code that uses sv_magic_portable will not compile */
#elif { VERSION < 5.8.0 }
#define sv_magic_portable(a, b, c, d, e)  sv_magic(a, b, c, d, e)

__UNDEFINED__  SvVSTRING_mg(sv)  (SvMAGICAL(sv) ? mg_find(sv, PERL_MAGIC_vstring) : NULL)
MAGIC *
mg_findext(SV * sv, int type, const MGVTBL *vtbl) {
    if (sv) {
        MAGIC *mg;

    #ifdef AvPAD_NAMELIST
        assert(!(SvTYPE(sv) == SVt_PVAV && AvPAD_NAMELIST(sv)));
    #endif

        for (mg = SvMAGIC(sv); mg; mg = mg->mg_moremagic) {
            if (mg->mg_type == type && mg->mg_virtual == vtbl)
                return mg;
        }

    return NULL;
    }
}

int
sv_unmagicext(pTHX_ SV *const sv, const int type, MGVTBL *vtbl)
{
    MAGIC* mg;
    MAGIC** mgp;

    if (SvTYPE(sv) < SVt_PVMG || !SvMAGIC(sv))
        return 0;
    mgp = &(SvMAGIC(sv));
    for (mg = *mgp; mg; mg = *mgp) {
        const MGVTBL* const virt = mg->mg_virtual;
        if (mg->mg_type == type && virt == vtbl) {
            *mgp = mg->mg_moremagic;
            if (virt && virt->svt_free)
                virt->svt_free(aTHX_ sv, mg);
            if (mg->mg_type != PERL_MAGIC_regex_global) {
                if (mg->mg_len > 0)
                    Safefree(mg->mg_ptr);
            else if (mg->mg_len == HEf_SVKEY) /* Questionable on older perls... */
        } else { /* Questionable on older perls... */
            /* sv_unmagicext(sv, type, vtbl) */
        }
    } else { /* Questionable on older perls... */
        /* sv_unmagicext(sv, type, vtbl) */
    }
SvREFCNT_dec(MUTABLE_SV(mg->mg_ptr));
else if (mg->mg_type == PERL_MAGIC_utf8)
    Safefree(mg->mg_ptr);
    }
if (mg->mg_flags & MGf_REFCOUNTED)
SvREFCNT_dec(mg->mg_obj);
    Safefree(mg);
}
else
    mgp = &mg->mg_moremagic;
    }
if (SvMAGIC(sv)) {
if (SvMAGICAL(sv)) /* if we're under save_magic, wait for restore_magic; */
    mg_magical(sv); /* else fix the flags now */
    }
else {
SvMAGICAL_off(sv);
SvFLAGS(sv) |= (SvFLAGS(sv) & (SVp_IOK|SVp_NOK|SVp_POK)) >> PRIVSHIFT;
    }
    return 0;
}
#endif
#endif

=xsinit

#define NEED_mg_findex
#define NEED_sv_unmagicext

 ifndef STATIC
#define STATIC static
#endif

STATIC MGVTBL null_mg_vtbl = {
    NULL, /* get */
    NULL, /* set */
    NULL, /* len */
    NULL, /* clear */
    NULL, /* free */
#if MGf_COPY
    NULL, /* copy */
#endif /* MGf_COPY */
#if MGf_DUP
    NULL, /* dup */
#endif /* MGf_DUP */
#if MGf_LOCAL
    NULL, /* local */
}
STATIC MGVTBL other_mg_vtbl = {
    NULL, /* get */
    NULL, /* set */
    NULL, /* len */
    NULL, /* clear */
    NULL, /* free */
#if MGf_COPY
    NULL, /* copy */
#endif /* MGf_COPY */
#if MGf_DUP
    NULL, /* dup */
#endif /* MGf_DUP */
#if MGf_LOCAL
    NULL, /* local */
#endif /* MGf_LOCAL */
};

=xsups

SV *
new_with_other_mg(package, ...
    SV *package
PREINIT:
    HV *self;
    HV *stash;
    SV *self_ref;
    const char *data = "hello\0";
    MAGIC *mg;
CODE:
    self = newHV();
    stash = gv_stashpv(SvPV_nolen(package), 0);

    self_ref = newRV_noinc((SV*)self);

    sv_magic((SV*)self, NULL, PERL_MAGIC_ext, data, strlen(data));
    mg = mg_find((SV*)self, PERL_MAGIC_ext);
    if (mg)
        mg->mg_virtual = &other_mg_vtbl;
    else
        croak("No mg!");

    RETVAL = sv_bless(self_ref, stash);
OUTPUT:
    RETVAL
SV *
new_with_mg(package, ...)
    SV *package
PREINIT:
    HV *self;
    HV *stash;
    SV *self_ref;
    const char *data = "hello\0";
    MAGIC *mg;
CODE:
    self = newHV();
    stash = gv_stashpv(SvPV_nolen(package), 0);

    self_ref = newRV_noinc((SV*)self);

    sv_magic((SV*)self, NULL, PERL_MAGIC_ext, data, strlen(data));
    mg = mg_find((SV*)self, PERL_MAGIC_ext);
    if (mg)
        mg->mg_virtual = &null_mg_vtbl;
    else
        croak("No mg!");

    RETVAL = sv_bless(self_ref, stash);
OUTPUT:
    RETVAL

void
remove_null_magic(self)
    SV *self
PREINIT:
    HV *obj;
PPCODE:
    obj = (HV*) SvRV(self);

    sv_unmagicext((SV*)obj, PERL_MAGIC_ext, &null_mg_vtbl);

void
remove_other_magic(self)
    SV *self
PREINIT:
    HV *obj;
PPCODE:
    obj = (HV*) SvRV(self);

    sv_unmagicext((SV*)obj, PERL_MAGIC_ext, &other_mg_vtbl);

void
as_string(self)
SV *self

PREINIT:
    HV *obj;
    MAGIC *mg;

PPCODE:
    obj = (HV*) SvRV(self);

    if ((mg = mg_findext((SV*)obj, PERL_MAGIC_ext, &null_mg_vtbl))) {
        XPUSHs(sv_2mortal(newSVpv(mg->mg_ptr, strlen(mg->mg_ptr))));
    } else {
        XPUSHs(sv_2mortal(newSVpvs("Sorry, your princess is in another castle.")));
    }

void
sv_catpv_mg(sv, string)
    SV *sv;
    char *string;
    CODE:
        sv_catpv_mg(sv, string);

void
sv_catpvn_mg(sv, sv2)
    SV *sv;
    SV *sv2;
    PREINIT:
        char *str;
        STRLEN len;
    CODE:
        str = SvPV(sv2, len);
        sv_catpvn_mg(sv, str, len);

void
sv_catsv_mg(sv, sv2)
    SV *sv;
    SV *sv2;
    CODE:
        sv_catsv_mg(sv, sv2);

void
sv_setiv_mg(sv, iv)
    SV *sv;
    IV iv;
    CODE:
        sv_setiv_mg(sv, iv);

void
sv_setnv_mg(sv, nv)
    SV *sv;
NV nv;
CODE:
    sv_setnv_mg(sv, nv);

void
sv_setpv_mg(sv, pv)
    SV *sv;
    char *pv;
    CODE:
        sv_setpv_mg(sv, pv);

void
sv_setpvn_mg(sv, sv2)
    SV *sv;
    SV *sv2;
    PREINIT:
        char *str;
        STRLEN len;
    CODE:
        str = SvPV(sv2, len);
        sv_setpvn_mg(sv, str, len);

void
sv_setsv_mg(sv, sv2)
    SV *sv;
    SV *sv2;
    CODE:
        sv_setsv_mg(sv, sv2);

void
sv_setuv_mg(sv, uv)
    SV *sv;
    UV uv;
    CODE:
        sv_setuv_mg(sv, uv);

void
sv_usepvn_mg(sv, sv2)
    SV *sv;
    SV *sv2;
    PREINIT:
        char *str, *copy;
        STRLEN len;
    CODE:
        str = SvPV(sv2, len);
        New(42, copy, len+1, char);
        Copy(str, copy, len+1, char);
        sv_usepvn_mg(sv, copy, len);
int
SvVSTRING_mg(sv)
   SV *sv;
 CODE:
   RETVAL = SvVSTRING_mg(sv) != NULL;
 OUTPUT:
   RETVAL

int
sv_magic_portable(sv)
   SV *sv
 PREINIT:
   MAGIC *mg;
   const char *foo = "foo";
 CODE:
#if { VERSION >= 5.004 }
   sv_magic_portable(sv, 0, '~', foo, 0);
   mg = mg_find(sv, '~');
   if (!mg)
      croak("No mg!");

   RETVAL = mg->mg_ptr == foo;
#else
   sv_magic(sv, 0, '~', (char *) foo, strlen(foo));
   mg = mg_find(sv, '~');
   RETVAL = strEQ(mg->mg_ptr, foo);
#endif
   sv_unmagic(sv, '~');
 OUTPUT:
   RETVAL
=tests plan => 23

# Find proper magic
ok(my $obj1 = Devel::PPPort->new_with_mg());
ok(Devel::PPPort::as_string($obj1), 'hello');

# Find with no magic
my $obj = bless {}, 'Fake::Class';
ok(Devel::PPPort::as_string($obj), "Sorry, your princess is in another castle.");

# Find with other magic (not the magic we are looking for)
ok($obj = Devel::PPPort->new_with_other_mg());
ok(Devel::PPPort::as_string($obj), "Sorry, your princess is in another castle.");

# Okay, attempt to remove magic that isn't there
Devel::PPPort::remove_other_magic($obj1);
ok(Devel::PPPort::as_string($obj1), 'hello');

# Remove magic that IS there
Devel::PPPort::remove_null_magic($obj1);
ok(Devel::PPPort::as_string($obj1), "Sorry, your princess is in another castle.");

# Removing when no magic present
Devel::PPPort::remove_null_magic($obj1);
ok(Devel::PPPort::as_string($obj1), "Sorry, your princess is in another castle.");

use Tie::Hash;
my %h;
tie %h, 'Tie::StdHash';
$h{foo} = 'foo';
$h{bar} = ";

&Devel::PPPort::sv_catpv_mg($h{foo}, 'bar');
ok($h{foo}, 'foobar');

&Devel::PPPort::sv_catpvn_mg($h{bar}, 'baz');
ok($h{bar}, 'baz');

&Devel::PPPort::sv_catsv_mg($h{foo}, '42');
ok($h{foo}, 'foobar42');

&Devel::PPPort::sv_setiv_mg($h{bar}, 42);
ok($h{bar}, 42);

&Devel::PPPort::sv_setnv_mg($h{PI}, 3.14159);
ok(abs($h{PI} - 3.14159) < 0.01);

&Devel::PPPort::sv_setpv_mg($h{mhx}, 'mhx');
ok($h{mhx}, 'mhx');

&Devel::PPPort::sv_setpvn_mg($h{mhx}, 'Marcus');
ok($h{mhx}, 'Marcus');

&Devel::PPPort::sv_setsv_mg($h{sv}, 'SV');
ok($h{sv}, 'SV');

&Devel::PPPort::sv_setuv_mg($h{sv}, 4711);
ok($h{sv}, 4711);

&Devel::PPPort::sv_usepvn_mg($h{sv}, 'Perl');
ok($h{sv}, 'Perl');

# v1 is treated as a bareword in older perls...
my $ver = do { local $SIG{__WARN__} = sub {}; eval qq[v1.2.0] };
ok($] < 5.009 || $@ eq ");
ok($] < 5.009 || Devel::PPPort::SvVSTRING_mg($ver));
ok(!(Devel::PPPort::SvVSTRING_mg(4711));

my $foo = 'bar';
ok(Devel::PPPort::sv_magic_portable($foo));
ok($foo eq 'bar');

Found in path(s):
No license file was found, but licenses were detected in source scan.

### Provides
my_sprintf

### Implementation
#if !defined(my_sprintf)
#if { NEED my_sprintf }

int my_sprintf(char *buffer, const char* pat, ...)
{
    va_list args;
    va_start(args, pat);
    vsprintf(buffer, pat, args);
    va_end(args);
    return strlen(buffer);
}

#endif
#endif

### XS Init
=xsinit
#define NEED_my_sprintf

=xsubs

void
my_sprintf()
PREINIT:
    char buf[128];
    int len;
PPCODE:
    len = my_sprintf(buf, "%s%d", "bar", 42);
    mXPUSHi(len);
    mXPUSHs(newSVpv(buf, 0));
    XSRETURN(2);

=tests plan => 2
my($l, $s) = Devel::PPPort::my_sprintf();
ok($l, 8);
ok($s, "foobar42");

Found in path(s):
* /opt/cola/permits/1139281956_1614508108.19/0/perl-Devel-PPPort-3.36-5.el8-1.src.rpm-cosi-expand-archive-
No license file was found, but licenses were detected in source scan.

*****************************************************************************
##
## Version 3.x, Copyright (C) 2004-2013, Marcus Holland-Moritz.
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## 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.
##
*****************************************************************************

=provides

__UNDEFINED__

=implementation

__UNDEFINED__ mPUSHs(s) PUSHs(sv_2mortal(s))
__UNDEFINED__ PUSHmortal PUSHs(sv_newmortal())
__UNDEFINED__ mPUSHp(p,l) sv_setpvn(PUSHmortal, p, l))
__UNDEFINED__ mPUSHn(n) sv_setnv(PUSHmortal, NV(n))
__UNDEFINED__ mPUSHi(i) sv_setiv(PUSHmortal, IV(i))
void mPUSHs()
    PPCODE:
    EXTEND(SP, 3);
    mPUSHs(newSVpv("foo", 0));
    mPUSHs(newSVpv("bar13", 3));
    mPUSHs(newSViv(42));
    XSRETURN(3);

void mPUSHp()
    PPCODE:
    EXTEND(SP, 3);
    mPUSHp("one", 3);
    mPUSHp("two", 3);
    mPUSHp("three", 5);
    XSRETURN(3);

void mPUSHn()
    PPCODE:
    EXTEND(SP, 3);
    mPUSHn(0.5);
    mPUSHn(-0.25);
    mPUSHn(0.125);
    XSRETURN(3);

void mPUSHi()
    PPCODE:
    EXTEND(SP, 3);
    mPUSHi(-1);
    mPUSHi(2);
mPUSHi(-3);
XSRETURN(3);

void
mPUSHu()
PPCODE:
EXTEND(SP, 3);
mPUSHu(1);
mPUSHu(2);
mPUSHu(3);
XSRETURN(3);

void
mXPUSHs()
PPCODE:
mXPUSHs(newSVpv("foo", 0));
mXPUSHs(newSVpv("bar13", 3));
mXPUSHs(newSViv(42));
XSRETURN(3);

void
mXPUSHp()
PPCODE:
mXPUSHp("one", 3);
mXPUSHp("two", 3);
mXPUSHp("three", 5);
XSRETURN(3);

void
mXPUSHn()
PPCODE:
mXPUSHn(0.5);
mXPUSHn(-0.25);
mXPUSHn(0.125);
XSRETURN(3);

void
mXPUSHi()
PPCODE:
mXPUSHi(-1);
mXPUSHi(2);
mXPUSHi(-3);
XSRETURN(3);

void
mXPUSHu()
PPCODE:
mXPUSHu(1);
Open Source Used In APIC-SE-BATMAN 2.1.1d 25733

---

```c
mXPUSHu(2);
mXPUSHu(3);
XSRETURN(3);
```

```c
ok(join(':', &Devel::PPPort::mPUSHs()), "foo:bar:42");
ok(join(':', &Devel::PPPort::mPUSHp()), "one:two:three");
ok(join(':', &Devel::PPPort::mPUSHn()), "0.5:-0.25:0.125");
ok(join(':', &Devel::PPPort::mPUSHi()), "-1:2:-3");
ok(join(':', &Devel::PPPort::mPUSHu()), "1:2:3");
```
sv_upgrade(sv, t);
return sv;
}
#endif
#endif
=xsin
#define NEED_newSV_type
=xsubs

int
newSV_type()

PREINIT:
   SV* sv;
CODE:
   RETVAL = 0;
   sv = newSV_type(SVt_NULL);
   if (SvTYPE(sv) == SVt_NULL)
      {
         RETVAL++;
      }
   SvREFCNT_dec(sv);

   sv = newSV_type(SVt_PVIV);
   if (SvTYPE(sv) == SVt_PVIV)
      {
         RETVAL++;
      }
   SvREFCNT_dec(sv);

   sv = newSV_type(SVt_PVHV);
   if (SvTYPE(sv) == SVt_PVHV)
      {
         RETVAL++;
      }
   SvREFCNT_dec(sv);

   sv = newSV_type(SVt_PVAV);
   if (SvTYPE(sv) == SVt_PVAV)
      {
         RETVAL++;
      }
   SvREFCNT_dec(sv);
OUTPUT:
=tests plan => 1

ok(Devel::PPPort::newSV_type(), 4);

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################################################################################
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##
## This program is free software; you can redistribute it and/or
## modify it under the same terms as Perl itself.
##
################################################################################

=provides
__UNDEFINED__

=implementation

__UNDEFINED__ HvNAME_get(hv) HvNAME(hv)

__UNDEFINED__ HvNAMELEN_get(hv) (HvNAME_get(hv) ? (I32)strlen(HvNAME_get(hv)) : 0)

=xsubs

char*
HvNAME_get(hv)
   HV *hv

int
HvNAMELEN_get(hv)
   HV *hv

=tests plan => 4

ok(Devel::PPPort::HvNAME_get(%Devel::PPPort::), 'Devel::PPPort');
ok(Devel::PPPort::HvNAME_get({}), undef);
ok(Devel::PPPort::HvNAMELEN_get(%Devel::PPPort:), length('Devel::PPPort'));
ok(Devel::PPPort::HvNAMELEN_get([]), 0);

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******************************************************************************
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##
******************************************************************************

=provides

PERL_UCHAR_MIN
PERL_UCHAR_MAX
PERL_USHORT_MIN
PERL_USHORT_MAX
PERL_SHORT_MAX
PERL_SHORT_MIN
PERL_UINT_MAX
PERL_UINT_MIN
PERL_INT_MAX
PERL_INT_MIN
PERL ULONG_MAX
PERL ULONG_MIN
PERL_LONG_MAX
PERL_LONG_MIN
PERL_ULONG_MAX
PERL_ULONG_MIN
PERL_ULONG_MAX
PERL_ULONG_MIN
PERL_ULONG_MAX
PERL_ULONG_MIN
IVSIZE
UVSIZE
IVTYPE
UVTYPE

=implementation

#ifndef I_LIMITS
# include <limits.h>
#endif

#ifndef PERL_UCHAR_MIN
#define PERL_UCHAR_MIN ((unsigned char)0)
#endif

ifndef PERL_UCHAR_MAX
ifndef UCHAR_MAX
#define PERL_UCHAR_MAX ((unsigned char)UCHAR_MAX)
else
ifndef MAXUCHAR
#define PERL_UCHAR_MAX ((unsigned char)MAXUCHAR)
else
#define PERL_UCHAR_MAX ((unsigned char)~(unsigned)0)
endif
endif
endif

ifndef PERL_USHORT_MIN
#define PERL_USHORT_MIN ((unsigned short)0)
#endif

ifndef PERL_USHORT_MAX
ifndef USHORT_MAX
#define PERL_USHORT_MAX ((unsigned short)USHORT_MAX)
else
ifndef MAXUSHORT
#define PERL_USHORT_MAX ((unsigned short)MAXUSHORT)
else
ifndef USHRT_MAX
#define PERL_USHORT_MAX ((unsigned short)USHRT_MAX)
else
#define PERL_USHORT_MAX ((unsigned short)~(unsigned)0)
endif
endif
endif
endif
endif

ifndef PERL_SHORT_MAX
ifndef SHORT_MAX
#define PERL_SHORT_MAX ((short)SHORT_MAX)
else
ifndef MAXSHORT    /* Often used in <values.h> */
#define PERL_SHORT_MAX ((short)MAXSHORT)
else
ifndef SHRT_MAX
#define PERL_SHORT_MAX ((short)SHRT_MAX)
else
#define PERL_SHORT_MAX ((short)~(short)0)
endif
endif
endif
endif
endif
# define PERL_SHORT_MAX ((short) (PERL_USHORT_MAX >> 1))
# endif
# endif
#endif

#ifndef PERL_SHORT_MIN
# ifdef SHORT_MIN
# define PERL_SHORT_MIN ((short)SHORT_MIN)
# else
# ifdef MINSHORT
# define PERL_SHORT_MIN ((short)MINSHORT)
# else
# ifdef SHRT_MIN
# define PERL_SHORT_MIN ((short)SHRT_MIN)
# else
# define PERL_SHORT_MIN (-PERL_SHORT_MAX - ((3 & -1) == 3))
# endif
# endif
# endif
#endif

#ifndef PERL_UINT_MAX
# ifdef UINT_MAX
# define PERL_UINT_MAX ((unsigned int)UINT_MAX)
# else
# ifdef MAXUINT
# define PERL_UINT_MAX ((unsigned int)MAXUINT)
# else
# define PERL_UINT_MAX (~(unsigned int)0)
# endif
# endif
#endif

#ifndef PERL_UINT_MIN
# define PERL_UINT_MIN ((unsigned int)0)
#endif

#ifndef PERL_INT_MAX
# ifdef INT_MAX
# define PERL_INT_MAX ((int)INT_MAX)
# else
# ifdef MAXINT /* Often used in <values.h> */
# define PERL_INT_MAX ((int)MAXINT)
# else
# define PERL_INT_MAX ((int)(PERL_UINT_MAX >> 1))
# endif
# endif
#endif
#ifndef PERL_INT_MIN
#  ifdef INT_MIN
#    define PERL_INT_MIN ((int)INT_MIN)
#  else
#    ifdef MININT
#      define PERL_INT_MIN ((int)MININT)
#    else
#      define PERL_INT_MIN (-PERL_INT_MAX - ((3 & -1) == 3))
#    endif
#  endif
#endif

#ifndef PERL_ULONG_MAX
#  ifdef ULONG_MAX
#    define PERL_ULONG_MAX ((unsigned long)ULONG_MAX)
#  else
#    ifdef MAXULONG
#      define PERL_ULONG_MAX ((unsigned long)MAXULONG)
#    else
#      define PERL_ULONG_MAX (~(unsigned long)0)
#    endif
#  endif
#endif

#ifndef PERL_ULONG_MIN
#  define PERL_ULONG_MIN ((unsigned long)0L)
#endif

#ifndef PERL_LONG_MAX
#  ifdef LONG_MAX
#    define PERL_LONG_MAX ((long)LONG_MAX)
#  else
#    ifdef MAXLONG
#      define PERL_LONG_MAX ((long)MAXLONG)
#    else
#      define PERL_LONG_MAX ((long) (PERL_ULONG_MAX >> 1))
#    endif
#  endif
#endif

#ifndef PERL_LONG_MIN
#  ifdef LONG_MIN
#    define PERL_LONG_MIN ((long)LONG_MIN)
#  else
#    ifdef MINLONG
#      define PERL_LONG_MIN ((long)MINLONG)
#    endif
#endif

#ifndef PERL_LONG_MIN
#  ifdef LONG_MIN
#    define PERL_LONG_MIN ((long)LONG_MIN)
#  else
#    ifdef MINLONG
#      define PERL_LONG_MIN ((long)MINLONG)
# else
# define PERL_LONG_MIN (-PERL_LONG_MAX - ((3 & -1) == 3))
# endif
# endif
#endif

#elif defined(HAS_QUAD) && (defined(convex) || defined(uts))
#if defined PERL_UQUAD_MAX
#if defined ULONGLONG_MAX
# define PERL_UQUAD_MAX ((unsigned long long)ULONGLONG_MAX)
#else
# ifdef MAXULONGLONG
# define PERL_UQUAD_MAX ((unsigned long long)MAXULONGLONG)
#else
# define PERL_UQUAD_MAX (~(unsigned long long)0)
#endif
#endif

#if defined PERL_UQUAD_MIN
#define PERL_UQUAD_MIN ((unsigned long long)0L)
#endif

#if defined PERL_QUAD_MAX
#if defined LONGLONG_MAX
# define PERL_QUAD_MAX ((long long)LONGLONG_MAX)
#else
# ifdef MAXLONGLONG
# define PERL_QUAD_MAX ((long long)MAXLONGLONG)
#else
# define PERL_QUAD_MAX ((long long) (PERL_UQUAD_MAX >> 1))
#endif
#endif

#if defined PERL_QUAD_MIN
#if defined LONGLONG_MIN
# define PERL_QUAD_MIN ((long long)LONGLONG_MIN)
#else
# ifdef MINLONGLONG
# define PERL_QUAD_MIN ((long long)MINLONGLONG)
#else
# define PERL_QUAD_MIN (-PERL_QUAD_MAX - ((3 & -1) == 3))
#endif
#endif
#endif
/* This is based on code from 5.003 perl.h */
#endif HAS_QUAD
#endif cray
__UNDEFINED__ IVTYPE int
__UNDEFINED__ IV_MIN PERL_INT_MIN
__UNDEFINED__ IV_MAX PERL_INT_MAX
__UNDEFINED__ UV_MIN PERL_UINT_MIN
__UNDEFINED__ UV_MAX PERL_UINT_MAX
#endif INTSIZE
__UNDEFINED__ IVSIZE INTSIZE
#endif
#endif
__UNDEFINED__ IVSIZE 8
__UNDEFINED__ LONGSIZE 8
__UNDEFINED__ PERL_QUAD_MIN IV_MIN
__UNDEFINED__ PERL_QUAD_MAX IV_MAX
__UNDEFINED__ PERL_UQUAD_MIN UV_MIN
__UNDEFINED__ PERL_UQUAD_MAX UV_MAX
#else
__UNDEFINED__ IVTYPE long
__UNDEFINED__ LONGSIZE 4
__UNDEFINED__ IV_MIN PERL_LONG_MIN
__UNDEFINED__ IV_MAX PERL_LONG_MAX
__UNDEFINED__ UV_MIN PERL_ULONG_MIN
__UNDEFINED__ UV_MAX PERL_ULONG_MAX
#endif
#endif IVSIZE
# ifdef LONGSIZE
#  define IVSIZE LONGSIZE
# else
#  define IVSIZE 4 /* A bold guess, but the best we can make. */
# endif
#endif

__UNDEFINED__ UVTYPE unsigned IVTYPE
__UNDEFINED__ UVSIZE IVSIZE

=xisubs

IV
iv_size()
CODE:
   RETVAL = IVSIZE == sizeof(IV);
OUTPUT:
   RETVAL

IV
uv_size()
CODE:
   RETVAL = UVSIZE == sizeof(UV);
OUTPUT:
   RETVAL

IV
iv_type()
CODE:
   RETVAL = sizeof(IVTYPE) == sizeof(IV);
OUTPUT:
   RETVAL

IV
uv_type()
CODE:
   RETVAL = sizeof(UVTYPE) == sizeof(UV);
OUTPUT:
   RETVAL

tests plan => 4
ok(&Devel::PPPort::iv_size());
ok(&Devel::PPPort::uv_size());
ok(&Devel::PPPort::iv_type());
ok(&Devel::PPPort::uv_type());

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# ---
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#
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# modify it under the same terms as Perl itself.
#
# =provides

START_MY_CXT
dMY_CXT_SV
dMY_CXT
MY_CXT_INIT
MY_CXT_CLONE
MY_CXT
pMY_CXT
pMY_CXT_
_pMY_CXT
aMY_CXT
aMY_CXT_
_aMY_CXT

=implementation

/
* Boilerplate macros for initializing and accessing interpreter-local
* data from C. All statics in extensions should be reworked to use
* this, if you want to make the extension thread-safe. See ext/re/re.xs
* for an example of the use of these macros.
*
* Code that uses these macros is responsible for the following:
* 1. #define MY_CXT_KEY to a unique string, e.g. "DynaLoader_guts"
* 2. Declare a typedef named my_cxt_t that is a structure that contains
*    all the data that needs to be interpreter-local.
* 3. Use the START_MY_CXT macro after the declaration of my_cxt_t.
* 4. Use the MY_CXT_INIT macro such that it is called exactly once
*    (typically put in the BOOT: section).
* 5. Use the members of the my_cxt_t structure everywhere as
*    MY_CXT.member.
* 6. Use the dMY_CXT macro (a declaration) in all the functions that
/* access MY_CXT. */

#if defined(MULTIPLICITY) || defined(PERL_OBJECT) || 
   defined(PERL_CAPI) || defined(PERL_IMPLICIT_CONTEXT)
#endif define START_MY_CXT

/* This must appear in all extensions that define a my_cxt_t structure,
* right after the definition (i.e. at file scope). The non-threads
* case below uses it to declare the data as static. */
#define START_MY_CXT

#if { VERSION < 5.004_68 }
/* Fetches the SV that keeps the per-interpreter data. */
#define dMY_CXT_SV 
   SV *my_cxt_sv = get_sv(MY_CXT_KEY, FALSE)
#else /* >= perl5.004_68 */
#define dMY_CXT_SV 
   SV *my_cxt_sv = *hv_fetch(PL_modglobal, MY_CXT_KEY, sizeof(MY_CXT_KEY)-1, TRUE)
#endif /* < perl5.004_68 */

/* This declaration should be used within all functions that use the
* interpreter-local data. */
#define dMY_CXT 
   dMY_CXT_SV; 
   my_cxt_t *my_cxtp = INT2PTR(my_cxt_t*,SvUV(my_cxt_sv))

/* Creates and zeroes the per-interpreter data.
* (We allocate my_cxtp in a Perl SV so that it will be released when
* the interpreter goes away.) */
#define MY_CXT_INIT 
   dMY_CXT_SV; 
   /* newSV() allocates one more than needed */ 
   my_cxt_t *my_cxtp = (my_cxt_t*)SvPVX(newSV(sizeof(my_cxt_t)-1));
   Zero(my_cxtp, 1, my_cxt_t); 
   sv_setuv(my_cxt_sv, PTR2UV(my_cxtp))

/* This macro must be used to access members of the my_cxt_t structure.
* e.g. MYCXT.some_data */
#define MY_CXT (*my_cxtp)

/* Judicious use of these macros can reduce the number of times dMY_CXT
* is used. Use is similar to pTHX, aTHX etc. */
#define pMY_CXT my_cxt_t *my_cxtp
#define pMY_CXT_ pMY_CXT.
#define _pMY_CXT ;pMY_CXT

Open Source Used In APIC-SE-BATMAN 2.1.1d 25744
```c
#define aMY_CXT     my_cxtp
#define aMY_CXT_    aMY_CXT,
#define _aMY_CXT    ,aMY_CXT
#endif /* START_MY_CXT */

#ifndef MY_CXT_CLONE
/* Clones the per-interpreter data. */
#define MY_CXT_CLONE
   dMY_CXT_SV;                                                     
   my_cxt_t *my_cxtp = (my_cxt_t*)SvPVX(newSV(sizeof(my_cxt_t)-1));
   Copy(INT2PTR(my_cxt_t*, SvUV(my_cxt_sv)), my_cxtp, 1, my_cxt_t);
   sv_setuv(my_cxt sv, PTR2UV(my_cxtp))
#endif

#else /* single interpreter */

#endif

#ifndef MY_CXT_CLONE
#define MY_CXT_CLONE    NOOP
#endif
#endif

#define MY_CXT_KEY "Devel::PPPort::_guts" XS_VERSION

typedef struct {
   /* Put Global Data in here */
   int dummy;
} my_cxt_t;
```
START_MY_CXT

=xsboot

{
  MY_CXT_INIT;
  /* If any of the fields in the my_cxt_t struct need
     * to be initialised, do it here.
   */
  MY_CXT.dummy = 42;
}

=xsubs

int
MY_CXT_1()
   CODE:
       dMY_CXT;
       RETVAL = MY_CXT.dummy == 42;
       ++MY_CXT.dummy;
   OUTPUT:
       RETVAL

int
MY_CXT_2()
   CODE:
       dMY_CXT;
       RETVAL = MY_CXT.dummy == 43;
   OUTPUT:
       RETVAL

int
MY_CXT_CLONE()
   CODE:
       MY_CXT_CLONE;
       RETVAL = 42;
   OUTPUT:
       RETVAL

=tests plan => 3

ok(&Devel::PPPort::MY_CXT_1());
ok(&Devel::PPPort::MY_CXT_2());
ok(&Devel::PPPort::MY_CXT_CLONE());

Found in path(s):
  * /opt/cola/permits/1139281956_1614508108.19/0/perl-Devel-PPPort-3.36-5.el8-1.src.rpm-cosi-expand-archive-
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#
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# modify it under the same terms as Perl itself.
#

=provides

__UNDEFINED__
SvUOK

=implementation

__UNDEFINED__  sv_setuv(sv, uv)                     \
   STMT_START {                         \
      UV TeMpUv = uv;                    \
      if (TeMpUv <= IV_MAX)              \
         sv_setiv(sv, TeMpUv);          \
      else                               \
         sv_setnv(sv, (double)TeMpUv);   \
   } STMT_END

__UNDEFINED__  newSVuv(uv)     ((uv) <= IV_MAX ? newSViv((IV)uv) : newSVnv((NV)uv))

__UNDEFINED__  sv_2uv(sv)      ((PL_Sv = (sv)), (UV) (SvNOK(PL_Sv) ? SvNV(PL_Sv) : sv_2nv(PL_Sv)))
__UNDEFINED__  SvUVX(sv)       ((UV)SvIVX(sv))
__UNDEFINED__  SvUVXx(sv)      SvUVX(sv)
__UNDEFINED__  SvUV(sv)        ((PL_Sv = (sv)), SvUV(PL_Sv))
__UNDEFINED__  XST_mUV(i,v)    (ST(i) = sv_2mortal(newSVuv(v)) )
__UNDEFINED__  XSRETURN_UV(v)  STMT_START { XST_mUV(0,v); XSRETURN(1); } STMT_END

__UNDEFINED__  PUSHu(u)  STMT_START { sv_setuv(TARG, (UV)(u)); PUSHTARG; } STMT_END

__UNDEFINED__  XPUSHu(u)  STMT_START { sv_setuv(TARG, (UV)(u)); XPUSHTARG; } STMT_END

=xsubs

SV *
sv_setuv(uv)
  UV uv
  CODE:
    RETVAL = newSViv(1);
    sv_setuv(RETVAL, uv);
  OUTPUT:
    RETVAL

SV *
newSVuv(uv)
  UV uv
  CODE:
    RETVAL = newSVuv(uv);
  OUTPUT:
    RETVAL

UV
sv_2uv(sv)
  SV *sv
  CODE:
    RETVAL = sv_2uv(sv);
  OUTPUT:
    RETVAL

UV
SvUVx(sv)
  SV *sv
  CODE:
    sv--;
    RETVAL = SvUVx(++sv);
  OUTPUT:
    RETVAL

void
XSRETURN_UV()
  PPCODE:
    XSRETURN_UV(42);

void
PUSHu()
PREINIT:
    dTARG;
PPCODE:
    TARG = sv_newmortal();
    EXTEND(SP, 1);
    PUSHu(42);
    XSRETURN(1);

void
XPUSHu()
    PREINIT:
    dTARG;
PPCODE:
    TARG = sv_newmortal();
    XPUSHu(43);
    XSRETURN(1);
=tests plan => 10

ok(&Devel::PPPort::sv_setuv(42), 42);
ok(&Devel::PPPort::newSVuv(123), 123);
ok(&Devel::PPPort::sv_2uv("4711"), 4711);
ok(&Devel::PPPort::sv_2uv("1735928559"), 1735928559);
ok(&Devel::PPPort::SvUVx("1735928559"), 1735928559);
ok(&Devel::PPPort::SvUVx(1735928559), 1735928559);
ok(&Devel::PPPort::SvUVx(0xdeadbeef), 0xdeadbeef);
ok(&Devel::PPPort::XSRETURN_UV(), 42);
ok(&Devel::PPPort::PUSHu(), 42);
ok(&Devel::PPPort::XPUSHu(), 43);

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******************************************************************************
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##
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## modify it under the same terms as Perl itself.
##
******************************************************************************

=provides
eval_pv
eval_sv
call_sv
call_pv
call_argv
call_method
load_module
vload_module
G_METHOD

/* Replace: l */
__UNDEFINED__ call_sv perl_call_sv
__UNDEFINED__ call_pv perl_call_pv
__UNDEFINED__ call_argv perl_call_argv
__UNDEFINED__ call_method perl_call_method

__UNDEFINED__ eval_sv perl_eval_sv
/* Replace: 0 */

__UNDEFINED__ PERL_LOADMOD_DENY 0x1
__UNDEFINED__ PERL_LOADMOD_NOIMPORT 0x2
__UNDEFINED__ PERL_LOADMOD_IMPORT_OPS 0x4

#ifndef G_METHOD
#define G_METHOD               64
#endif

#ifdef call_sv
#undef call_sv
#endif
#if { VERSION < 5.6.0 }
#define call_sv(sv, flags)  ((flags) & G_METHOD ? perl_call_method((char *) SvPV_nolen_const(sv),
                                       (flags) & ~G_METHOD) : perl_call_sv(sv, flags))
#else
#define call_sv(sv, flags)  ((flags) & G_METHOD ? Perl_call_method(aTHX_ (char *) SvPV_nolen_const(sv),
                                       (flags) & ~G_METHOD) : Perl_call_sv(aTHX_ sv, flags))
#endif
#endif

/* Replace perl_eval_pv with eval_pv */

#ifndef eval_pv
#if { NEED eval_pv }  
SV*
eval_pv(char *p, I32 croak_on_error)
{
  dSP;

 /* Replace perl_eval_pv with eval_pv */
SV* sv = newSVpv(p, 0);

PUSHMARK(sp);
eval_sv(sv, G_SCALAR);
SvREFCNT_dec(sv);

SPAGAIN;
sv = POPs;
PUTBACK;

if (croak_on_error && SvTRUE(GvSV(errgv)))
croak(SvPVx(GvSV(errgv), na));

return sv;
}
#endif
#endif
#ifndef vload_module
#if { NEED vload_module }

void
vload_module(U32 flags, SV *name, SV *ver, va_list *args)
{
  dTHR;
  dVAR;
  OP *veop, *imop;

  OP * const modname = newSVOP(OP_CONST, 0, name);
  /* 5.005 has a somewhat hacky force_normal that doesn't croak on
     SvREADONLY() if PL_compling is true. Current perls take care in
     ck_require() to correctly turn off SvREADONLY before calling
     force_normal_flags(). This seems a better fix than fudging PL_compling
     */
  SvREADONLY_off(((SVOP*)modname)->op_sv);
  modname->op_private |= OPpCONST_BARE;
  if (ver) {
    veop = newSVOP(OP_CONST, 0, ver);
  } else
    veop = NULL;
  if (flags & PERL_LOADMOD_NOIMPORT) {
    imop = sawparens(newNULLLIST());
  } else if (flags & PERL_LOADMOD_IMPORT_OPS) {
    imop = va_arg(*args, OP*);
  } else
    imop = NULL;
  if (flags & PERL_LOADMOD_NOIMPORT) {
  } else if (flags & PERL_LOADMOD_IMPORT_OPS) {
  }
else {
    SV *sv;
    imop = NULL;
    sv = va_arg(*args, SV*);
    while (sv) {
        imop = append_elem(OP_LIST, imop, newSVOP(OP_CONST, 0, sv));
        sv = va_arg(*args, SV*);
    }
    const line_t ocopline = PL_copline;
    COP * const ocurcop = PL_curcop;
    const int oexpect = PL_expect;

#if { VERSION >= 5.004 }
    utilize(!(flags & PERL_LOADMOD_DENY), start_subparse(FALSE, 0),
            veop, modname, imop);
#elif { VERSION > 5.003 }
    utilize(!(flags & PERL_LOADMOD_DENY), start_subparse(),
            veop, modname, imop);
#else
    utilize(!(flags & PERL_LOADMOD_DENY), start_subparse(),
            modname, imop);
#endif
    PL_expect = oexpect;
    PL_copline = ocopline;
    PL_curcop = ocurcop;
}

#endif
#endif

#ifndef load_module
#if { NEED load_module }

void
load_module(U32 flags, SV *name, SV *ver, ...)
{
    va_list args;
    va_start(args, ver);
    vload_module(flags, name, ver, &args);
    va_end(args);
}
#endif
#endif
=xsinit

#define NEED_eval_pv
#define NEED_load_module
#define NEED_vload_module

=xsubs

I32
G_SCALAR()
  CODE:
    RETVAL = G_SCALAR;
  OUTPUT:
    RETVAL

I32
G_ARRAY()
  CODE:
    RETVAL = G_ARRAY;
  OUTPUT:
    RETVAL

I32
G_DISCARD()
  CODE:
    RETVAL = G_DISCARD;
  OUTPUT:
    RETVAL

void
eval_sv(sv, flags)
  SV* sv
  I32 flags
  PREINIT:
    I32 i;
  PPCODE:
    PUTBACK;
    i = eval_sv(sv, flags);
    SPAGAIN;
    EXTEND(SP, 1);
    mPUSHi(i);

void
eval_pv(p, croak_on_error)
  char* p
  I32 croak_on_error
  PPCODE:
    PUTBACK;
EXTEND(SP, 1);
PUSHs(eval_pv(p, croak_on_error));

void
call_sv(sv, flags, ...)
    SV* sv
    I32 flags
    PREINIT:
    I32 i;
    PPCODE:
    for (i=0; i<items-2; i++)
        ST(i) = ST(i+2); /* pop first two args */
    PUSHMARK(SP);
    SP += items - 2;
    PUTBACK;
    i = call_sv(sv, flags);
    SPAGAIN;
    EXTEND(SP, 1);
    mPUSHi(i);

void
call_pv(subname, flags, ...)
    char* subname
    I32 flags
    PREINIT:
    I32 i;
    PPCODE:
    for (i=0; i<items-2; i++)
        ST(i) = ST(i+2); /* pop first two args */
    PUSHMARK(SP);
    SP += items - 2;
    PUTBACK;
    i = call_pv(subname, flags);
    SPAGAIN;
    EXTEND(SP, 1);
    mPUSHi(i);

void
call_argv(subname, flags, ...)
    char* subname
    I32 flags
    PREINIT:
    I32 i;
    char *args[8];
    PPCODE:
    if (items > 8) /* play safe */
        XSRETURN_UNDEF;
    for (i=2; i<items; i++)
args[i-2] = SvPV_nolen(ST(i));
args[items-2] = NULL;
PUTBACK;
i = call_argv(subname, flags, args);
SPAGAIN;
EXTEND(SP, 1);
mPUSHi(i);

void
call_method(methname, flags, ...)
  char* methname
  I32 flags
PREINIT:
  I32 i;
PPCODE:
  for (i=0; i<items-2; i++)
    ST(i) = ST(i+2); /* pop first two args */
    PUSHMARK(SP);
    SP += items - 2;
    PUTBACK;
i = call_method(methname, flags);
SPAGAIN;
EXTEND(SP, 1);
mPUSHi(i);

void
call_sv_G_METHOD(sv, flags, ...)
  SV* sv
  I32 flags
PREINIT:
  I32 i;
PPCODE:
  for (i=0; i<items-2; i++)
    ST(i) = ST(i+2); /* pop first two args */
    PUSHMARK(SP);
    SP += items - 2;
    PUTBACK;
i = call_sv(sv, flags | G_METHOD);
SPAGAIN;
EXTEND(SP, 1);
mPUSHi(i);

void
load_module(flags, name, version, ...)
  U32 flags
  SV *name
  SV *version
CODE:
/* Both SV parameters are donated to the ops built inside load_module, so we need to bump the refcounts. */
Perl_load_module(aTHX_flags, SvREFCNT_inc_simple(name), 
SvREFCNT_inc_simple(version), NULL);

tests plan => 52

sub eq_array
{
  my($a, $b) = @_; 
  join(':', @$a) eq join(':', @$b);
}

sub f
{
  shift;
  unshift @_, 'b';
  pop @_; 
  @_, defined wantarray ? wantarray ? 'x' : 'y' : 'z';
}

my $obj = bless [], 'Foo';

sub Foo::meth
{
  return 'bad_self' unless @_ && ref $_[0] && ref($_[0]) eq 'Foo';
  shift;
  shift;
  unshift @_, 'b';
  pop @_; 
  @_, defined wantarray ? wantarray ? 'x' : 'y' : 'z';
}

my $test;
for $test (
    # flags                      args           expected         description
    [ &Devel::PPPort::G_SCALAR, [ ],           [ qw(y 1) ],     '0 args, G_SCALAR'  ],
    [ &Devel::PPPort::G_SCALAR, [ qw(a p q) ], [ qw(y 1) ],     '3 args, G_SCALAR'  ],
    [ &Devel::PPPort::G_ARRAY,   [ ],           [ qw(x 1) ],     '0 args, G_ARRAY'   ],
    [ &Devel::PPPort::G_ARRAY,   [ qw(a p q) ], [ qw(b p x 3) ], '3 args, G_ARRAY'   ],
    [ &Devel::PPPort::G_DISCARD, [ ],           [ qw(0) ],       '0 args, G_DISCARD' ],
    [ &Devel::PPPort::G_DISCARD, [ qw(a p q) ], [ qw(0) ],       '3 args, G_DISCARD' ],
)
{
  my ($flags, $args, $expected, $description) = @$test;
  print "# --- $description ---\n";
  ok(eq_array( [ &Devel::PPPort::call_sv(&f, $flags, @Sargs) ], $expected));
ok(eq_array( [ &Devel::PPPort::call_sv(*f, $flags, @$args) ], $expected));
ok(eq_array( [ &Devel::PPPort::call_sv('f', $flags, @$args) ], $expected));
ok(eq_array( [ &Devel::PPPort::call_pv('f', $flags, @$args) ], $expected));
ok(eq_array( [ &Devel::PPPort::call_argv('f', $flags, @$args) ], $expected));
ok(eq_array( [ &Devel::PPPort::eval_sv("f(qw('@$args'))", $flags) ], $expected));
ok(eq_array( [ &Devel::PPPort::call_method('meth', $flags, $obj, @$args) ], $expected));
ok(eq_array( [ &Devel::PPPort::call_sv_G_METHOD('meth', $flags, $obj, @$args) ], $expected));
}

ok(&Devel::PPPort::eval_pv('i()', 0), 'y');
ok(&Devel::PPPort::eval_pv('f(qw(a b c))', 0), 'y');

ok(!defined $::{'less::'}, 1, "Hadn't loaded less yet");
Devel::PPPort::load_module(0, "less", undef);
ok(defined $::{'less::'}, 1, "Have now loaded less");

Found in path(s):
* /opt/cola/permits/1139281956_1614508108.19/0/perl-Devel-PPPort-3.36-5.el8-1.src.rpm-cosi-expand-archive-
2uitCuFR/Devel-PPPort-3.36.tar.gz-cosi-expand-archive-BhoheLKS/Devel-PPPort-3.36/parts/inc/call
No license file was found, but licenses were detected in source scan.

******************************************************************************
##
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## 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.
##
******************************************************************************

=provides

my_snprintf

=implementation

#if !defined(my_snprintf)
#if ( NEED my_snprintf )

int
my_snprintf(char *buffer, const Size_t len, const char *format, ...)
{
    dTHX;
    int retval;
    va_list ap;
    va_start(ap, format);

#ifdef HAS_VSNPRINTF
    retval = vsnprintf(buffer, len, format, ap);
#else
    retval = vsprintf(buffer, format, ap);
#endif
va_end(ap);
if (retval < 0 || (len > 0 && (Size_t)retval >= len))
    Perl_croak(aTHX_ "panic: my_snprintf buffer overflow");
    return retval;
}
#endif
#endif
=xsin

#define NEED_my_snprintf
=xsubs

void
my_snprintf()
    PREINIT:
    char buf[128];
    int len;
    PPCODE:
    len = my_snprintf(buf, sizeof buf, "foo%s%d", "bar", 42);
    mXPUSHi(len);
    mXPUSHs(newSVpv(buf, 0));
    XSRETURN(2);
=tests plan => 2

my($l, $s) = Devel::PPPort::my_snprintf();
ok($l, 8);
ok($s, "foobar42");

Found in path(s):
No license file was found, but licenses were detected in source scan.

#******************************************************************************
##
## Version 3.x, Copyright (C) 2004-2013, Marcus Holland-Moritz.
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####

---

=provides

/^\#s*define\s+(\w+)/

=implementation

#ifndef IVdf
#  if IVSIZE == LONGSIZE
#    define IVdf "ld"
#    define UVuf "lu"
#    define UVof "lo"
#    define UVxf "lx"
#    define UVXf "lX"
#  elif IVSIZE == INTSIZE
#    define IVdf "d"
#    define UVuf "u"
#    define UVof "o"
#    define UVxf "x"
#    define UVXf "X"
#  else
#    error "cannot define IV/UV formats"
#  endif
#endif

#ifndef NVef
#  if defined(USE_LONG_DOUBLE) && defined(HAS_LONG_DOUBLE) && defined(PERL_PRIfldbl) && { VERSION != 5.6.0 }
/* Not very likely, but let's try anyway. */
#    define NVef PERL_PRIeldbl
#    define NVff PERL_PRIfldbl
#    define NVgf PERL_PRIgldbl
#  else
#    define NVef "e"
#    define NVff "f"
#    define NVgf "g"
#  endif
#endif

=xsubs

void
croak_NVgf(num)
    NV num
PPCODE:

Perl_croak(aTHX_ "%.20" NVgf "\n", num);

=tests plan => 1

my $num = 1.12345678901234567890;

eval { Devel::PPPort::croak_NVgf($num) }; ok($@ =~ /\^1.1234567890/);

Found in path(s):
No license file was found, but licenses were detected in source scan.

# PPPort_pm.PL -- generate PPPort.pm
#
# Version 3.x, Copyright (C) 2004-2013, Marcus Holland-Moritz.
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# Version 1.x, Copyright (C) 1999, Kenneth Albanowski.
#
# This program is free software; you can redistribute it and/or
# modify it under the same terms as Perl itself.
#
use strict;
$\^W = 1;
require './parts/ppptools.pl';

my $INCLUDE = 'parts/inc';
my $DPPP = 'DPPP_';

my %embed = map { ( $_->{name} => $_ ) } parse_embed(qw(parts/embed.fnc parts/apidoc.fnc parts/ppport.fnc));

my(%provides, %prototypes, %explicit);

my $data = do { local $/; <DATA> ];
$data =~ s{^(\%\%\%\%\%(include)\$+\(\\w+\)\(\?\?\^[^$\\r\n]+\+\?\?\)\$+\}\$+\)}{eval "$1($2, $3)" or die $@ }gem;

$data = expand($data);
my @api = sort { lc $a cmp lc $b or $a cmp $b } keys %provides;

$data =~ s{^(.*)__PROVIDED_API__(\s*?)^} {join ",", map "$1\n", @api}gem;

my $len = 0;
for (keys %explicit) {
    length > $len and $len = length;
}
my $format = sprintf '%%-%ds  %%-%ds  %%s', $len+2, $len+5, $len+2, $len+5;

$data =~ s!^(.*)__EXPLICIT_API__(\s*?)^!     sprintf("$1\n", $2) . "\n"
     join('', map { sprintf "$1\n", $explicit{$_} eq 'var' ? "var: \$\{$_\}" : "\$\{$_\}", "NEED_\$\{$_\}_GLOBAL"
             sort keys %explicit)
!gem;

my %raw_base = %{&parse_todo('parts/base')};
my %raw_todo = %{&parse_todo('parts/todo')};

my %todo;
for (keys %raw_todo) {
push @{$todo{$raw_todo{$_}}}, $_;
}

# check consistency
for (@api) {
    if (exists $raw_todo{$_} and exists $raw_base{$_}) {
        if ($raw_base{$_} eq $raw_todo{$_}) {
            warn "$INCLUDE/$provides\{$_\} provides \$_, which is still marked "
            "todo for \". format_version($raw_todo{$_}) . \"\n"
        } else {
            check(2, "$\{$_\} was ported back to \". format_version($raw_todo{$_}) . "\n" (baseline revision: \". format_version($raw_base{$_}) . ").\");
        }
    }
}

my @perl_api;
for (keys %provides) {
    next if /^Perl_(.*)/ && exists $embed{$1};
    next if exists $embed{$_};
open FH, "PPPort.pm" or die "PPPort.pm: $!
";  
print FH $data;  
close FH;
exit 0;

sub include
{
  my($file, $opt) = @_; 

  print "including $file\n";

  my $data = parse_partspec("$INCLUDE/$file");

  for (@{ $data->{provides} }) {
    if (exists $provides{$_}) {
      if ($provides{$_} ne $file) {
        warn "$file: $_ already provided by $provides{$_}\n";
      }
    }
    else {
      $provides{$_} = $file;
    }
  }

  for (keys %{$data->{prototypes}}) {
    $prototypes{$_} = $data->{prototypes}{$_};
    $data->{implementation} =~ s/^$_(?=\(\s*\()/$DPPP(my_$_)/mg;
  }

  my $out = $data->{implementation};

  if (exists $opt->{indent}) {
    $out =~ s/^/$opt->{indent}/gm;
  }

  return $out;
}

sub expand
{
  my $code = shift;
  $code =~ s{^\s*# if\s+\([^\s]+\)\s*$}{\1.expand_pp_expressions($2)}gm;
  $code =~ s{^\s*__UNDEFINED__\s+\([^\s]+\)\s*$}{\1.expand_pp_expressions($2)}gm;
  $code =~ s{'\s*\([^\s]+\)\s*$}{\1.expand_pp_expressions($2)}gm;
  return $out;
}
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Perl

```perl
sub expand_undefined { $2, $1, $3 } {\rm\text{gemx;}}

$code =~ s{\^\{(\^\{\{\S\}\}\}\}__NEED_VAR__\s+(.*?)\s+(\w+)(?:\s*='[^;]+?')?\s*;\s*$}{{\text{expand_need_var($1, $3, $2, $4)}} {\text{gem;}}

$code =~ s{\^\{(\^\{\{\S\}\}\}\}__NEED_DUMMY_VAR__\s+(.*?)\s+(\w+)(?:\s*='[^;]+?')?\s*;\s*$}{{\text{expand_need_dummy_var($1, $3, $2, $4)}} {\text{gem;}}

return $code;
}

sub expand_need_var {
    my($indent, $var, $type, $init) = @_;

    $explicit{$var} = 'var';

    my $myvar = "$DPPP(my_$var)";
    $init = defined $init ? " = $init" : "";

    my $code = <<\ENDCODE;
#if defined(NEED_$var)
static $type $myvar$init;
#elif defined(NEED_$var_GLOBAL)
$type $myvar$init;
#else
extern $type $myvar;
#endif
#define $var $myvar\ENDCODE

$code =~ s/^/$indent/mg;

return $code;
}

sub expand_need_dummy_var {
    my($indent, $var, $type, $init) = @_;

    $explicit{$var} = 'var';

    my $myvar = "$DPPP(dummy_$var)";

    my $code = <<\ENDCODE;
    #if defined(NEED_DUMMY_VAR)
    static $type $myvar$init;
    #elif defined(NEED_DUMMY_VAR_GLOBAL)
    $type $myvar$init;
    #else
    extern $type $myvar;
    #endif
    #define $var $myvar\ENDCODE

    $code =~ s/^/$indent/mg;

    return $code;
}
```
$init = defined $init ? "$init" : "";

my $code = <<ENCODE;
#if defined(NEED_$var)
static $type $myvar$init;
#elif defined(NEED_${var}_GLOBAL)
$type $myvar$init;
#else
extern $type $myvar;
#endif
ENCODE

$code =~ s/^/$indent/mg;

return $code;
}

sub expand_undefined
{
    my($macro, $withargs, $def) = @_;;
    my $rv = "#ifndef $macro
#  define ";

    if (defined $def && $def =~ /[A-Z]/) {
        $rv .= sprintf "%-30s %s", $withargs, $def;
    } else {
        $rv .= $withargs;
    }

    $rv .= "\#endif";

    return $rv;
}

sub expand_pp_expressions
{
    my $pp = shift;
    $pp =~ s/\{([^}]+)\}/expand_pp_expr($1)/ge;
    return $pp;
}

sub expand_pp_expr
{
    my $expr = shift;

    if ($expr =~ /\s*need\s+([^\s]+)\s+$/) {
        my $func = $1;
        my $e = $embed{$func} or die "unknown API function '$func' in NEED\n";

        $code = $e;
    } else {
        $code = $expr;
    }

    $code =~ s/^/$indent/mg;

    return $code;
}
my $proto = make_prototype($e);
if (exists $prototypes{$func}) {
    if (compare_prototypes($proto, $prototypes{$func})) {
        check(1, "differing prototypes for $func:\n API: $proto\n PPP: $prototypes{$func}"");
        $proto = $prototypes{$func};
    }
    }
else {
    warn "found no prototype for $func\n";
    }

$explicit{$func} = 'func';

$proto =~ s/$func(?=\s\(*)/$DPPP(my_$func)/;
my $embed = make_embed($e);

return "defined(NEED_$func)\n"
  . "static $proto;\n"
  . "static\n"
  . "#else\n"
  . "extern $proto;\n"
  . "#endif"
  . "\n"
  . "$embed"
  . "\n"
  . "#if defined(NEED_$func) || defined(NEED_${func}_GLOBAL)"
    }

die "cannot expand preprocessor expression '$expr\n";
}

sub make_embed 
{
my $f = shift;
my $n = $f->{name};
my $a = do { my $x = 'a'; join ',', map { $x++ } 1 .. @{$f->{args}} };
my $lastarg = @{$f->{args}}[-1];

if ($f->{flags}{n}) {
    if ($f->{flags}{p}) {
        return "#define $n $DPPP(my_$n)"
          . "#define Perl_$n $DPPP(my_$n)"
          . "#define $n $DPPP(my_$n)"
    }
    else {
        return "#define $n $DPPP(my_$n)"
    }
}
else {

my $undef = <<UNDEF;
#ifdef $n
# undef $n
#endif
UNDEF
if ($f->{flags}{p}) {
if ($f->{flags}{f}) {
return "#define Perl_$n $DPPP(my_$n)";
}
elsif (@$lastarg && $lastarg->[0] =~ /\.\.\./) {
return $undef . "#define $n $DPPP(my_$n)\n" .
"#define Perl_$n $DPPP(my_$n)";
}
else {
return $undef . "#define $n($a) $DPPP(my_$n)(aTHX_ $a)\n" .
"#define Perl_$n $DPPP(my_$n)";
}
}
else {
return $undef . "#define $n($a) $DPPP(my_$n)(aTHX_ $a)";
}
}
}
sub check
{
my $level = shift;
if (exists $ENV{DPPP_CHECK_LEVEL} and $ENV{DPPP_CHECK_LEVEL} >= $level) {
print STDERR @_, "\n";
}
}
__DATA__
################################################################################
#
# !!!!! Do NOT edit this file directly! -- Edit PPPort_pm.PL instead. !!!!!
#
# This file was automatically generated from the definition files in the
# parts/inc/ subdirectory by PPPort_pm.PL. To learn more about how all this
# works, please read the F<HACKERS> file that came with this distribution.
#
################################################################################
#
# Perl/Pollution/Portability
#
################################################################################
#

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#
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# modify it under the same terms as Perl itself.
#
# #**************************************************************************
#
=head1 NAME

Devel::PPPort - Perl/Polllution/Portability

=head1 SYNOPSIS

Devel::PPPort::WriteFile();   # defaults to ./ppport.h
Devel::PPPort::WriteFile('someheader.h');

# Same as above but retrieve contents rather than write file
my $contents = Devel::PPPort::GetFileContents();
my $contents = Devel::PPPort::GetFileContents('someheader.h');

=head1 DESCRIPTION

Perl's API has changed over time, gaining new features, new functions,
increasing its flexibility, and reducing the impact on the C namespace
environment (reduced pollution). The header file written by this module,
typically F<ppport.h>, attempts to bring some of the newer Perl API
features to older versions of Perl, so that you can worry less about
keeping track of old releases, but users can still reap the benefit.

C<Devel::PPPort> contains two functions, C<WriteFile> and C<GetFileContents>.
C<WriteFile>'s only purpose is to write the F<ppport.h> C header file.
This file contains a series of macros and, if explicitly requested, functions
that allow XS modules to be built using older versions of Perl. Currently,
Perl versions from __MIN_PERL__ to __MAX_PERL__ are supported.

C<GetFileContents> can be used to retrieve the file contents rather than
writing it out.

This module is used by C<h2xs> to write the file F<ppport.h>.

=head2 Why use ppport.h?

You should use F<ppport.h> in modern code so that your code will work
with the widest range of Perl interpreters possible, without significant
additional work.
You should attempt older code to fully use F<ppport.h>, because the reduced pollution of newer Perl versions is an important thing. It's so important that the old polluting ways of original Perl modules will not be supported very far into the future, and your module will almost certainly break! By adapting to it now, you'll gain compatibility and a sense of having done the electronic ecology some good.

=head2 How to use ppport.h

Don't direct the users of your module to download C<Devel::PPPort>. They are most probably no XS writers. Also, don't make F<ppport.h> optional. Rather, just take the most recent copy of F<ppport.h> that you can find (e.g. by generating it with the latest C<Devel::PPPort> release from CPAN), copy it into your project, adjust your project to use it, and distribute the header along with your module.

=head2 Running ppport.h

But F<ppport.h> is more than just a C header. It's also a Perl script that can check your source code. It will suggest hints and portability notes, and can even make suggestions on how to change your code. You can run it like any other Perl program:

perl ppport.h [options] [files]

It also has embedded documentation, so you can use

perldoc ppport.h

to find out more about how to use it.

=head1 FUNCTIONS

=head2 WriteFile

C<WriteFile> takes one optional argument. When called with one argument, it expects to be passed a filename. When called with no arguments, it defaults to the filename F<ppport.h>. The function returns a true value if the file was written successfully. Otherwise it returns a false value.

=head2 GetFileContents

C<GetFileContents> behaves like C<WriteFile> above, but returns the contents of the would-be file rather than writing it out.

=head1 COMPATIBILITY
F<ppport.h> supports Perl versions from __MIN_PERL__ to __MAX_PERL__ in threaded and non-threaded configurations.

=head2 Provided Perl compatibility API

The header file written by this module, typically F<ppport.h>, provides access to the following elements of the Perl API that is not available in older Perl releases:

__PROVIDED_API__

=head2 Perl API not supported by ppport.h

There is still a big part of the API not supported by F<ppport.h>. Either because it doesn't make sense to back-port that part of the API, or simply because it hasn't been implemented yet. Patches welcome!

Here's a list of the currently unsupported API, and also the version of Perl below which it is unsupported:

=over 4

__UNsupported_API__

=back

=head1 BUGS

If you find any bugs, C<Devel::PPPort> doesn't seem to build on your system, or any of its tests fail, please file an issue here: L<https://github.com/mhx/Devel-PPPort/issues/>

=head1 AUTHORS

=over 2

=item *

Version 1.x of Devel::PPPort was written by Kenneth Albanowski.

=item *

Version 2.x was ported to the Perl core by Paul Marquess.

=item *

Version 3.x was ported back to CPAN by Marcus Holland-Moritz.
Versions >= 3.22 are maintained with support from Matthew Horsfall (alh).

=head1 COPYRIGHT

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=head1 SEE ALSO

See L<h2xs>, L<ppport.h>.

cut

package Devel::PPPort;

use strict;
use vars qw($VERSION $data);

$VERSION = '3.36';

sub _init_data
{
    $data = do { local $/; <DATA> };  
    my $pkg = 'Devel::PPPort';
    $data =~ s/__PERL_VERSION__/\$\]/g;
    $data =~ s/__VERSION__/\$VERSION/g;
    $data =~ s/__PKG__/\$pkg/g;
    $data =~ s/^|>//gm;
}

sub GetFileContents {
    my $file = shift || 'ppport.h';
    defined $data or _init_data();
    my $copy = $data;
    $copy =~ s/\bppport\b/$file/g;
    return $copy;
}
sub WriteFile
{
    my $file = shift || 'ppport.h';
    my $data = GetFileContents($file);
    open F, '>$file' or return undef;
    print F $data;
    close F;

    return 1;
}

1;

__DATA__
#endif 0
<<'SKIP';
#endif
/*
   *---------------------------------------------------------------------

   ppport.h -- Perl/Pollution/Portability Version __VERSION__

   Automatically created by __PKG__ running under perl __PERL_VERSION__.

   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

   %include ppphdoc { indent => '|>' }

   %include ppphbin

   __DATA__
   */
#endif _P_P_PORTABILITY_H_
#define _P_P_PORTABILITY_H_
#endif DPPP_NAMESPACE
#define DPPP_NAMESPACE DPPP_
#endif DPPP_NAMESPACE DPPP_
#endif

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#define DPPP_CAT2(x,y) CAT2(x,y)
#define DPPP_(name) DPPP_CAT2(DPPP_NAMESPACE, name)

%include version
%include threads
%include limits
%include uv
%include memory
%include misc
%include variables
%include mPUSH
%include call
%include newRV
%include newCONSTSUB
%include MY_CXT
%include format
%include SvREFCNT
%include newSV_type
%include newSVpv
%include SvPV
%include Sv_set
%include sv_xpvf
%include shared_pv
%include HvNAME
%include gv
%include warn

%include pvs

%include magic

%include cop

%include grok

%include snprintf

%include sprintf

%include exception

%include strlfuncs

%include pv_tools

#endif /* _P_P_PORTABILITY_H_ */

/* End of File ppport.h */

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*******************************************************************************
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##
*******************************************************************************

=provides

__UNDEFINED__

=implementation

__UNDEFINED__ SvMAGIC_set(sv, val) \\
STMT_START { assert(SvTYPE(sv) >= SVt_PVMG); \

(((XPVMG*) SvANY(sv))->xmg_magic = (val)); } STMT_END

#if { VERSION < 5.9.3 }
__UNDEFINED__ SvPVX_const(sv)  ((const char*) (0 + SvPVX(sv)))
__UNDEFINED__ SvPVX_mutable(sv)  (0 + SvPVX(sv))

__UNDEFINED__ SvRV_set(sv, val) \
STMT_START { assert(SvTYPE(sv) >= SVt_RV); \
(((XRV*) SvANY(sv))->xrv_rv = (val)); } STMT_END
#endif

#else
__UNDEFINED__ SvPVX_const(sv)  ((const char*)((sv)->sv_u.svu_pv))
__UNDEFINED__ SvPVX_mutable(sv)  ((sv)->sv_u.svu_pv)

__UNDEFINED__ SvRV_set(sv, val) \
STMT_START { assert(SvTYPE(sv) >= SVt_RV); \
((sv)->sv_u.svu_rv = (val)); } STMT_END
#endif

__UNDEFINED__ SvSTASH_set(sv, val) \
STMT_START { assert(SvTYPE(sv) >= SVt_PVMG); \
(((XPVMG*) SvANY(sv))->xmg_stash = (val)); } STMT_END

#if { VERSION < 5.004 }
__UNDEFINED__ SvUV_set(sv, val) \
STMT_START { assert(SvTYPE(sv) == SVt_IV || SvTYPE(sv) >= SVt_PVIV); \
(((XPVIV*) SvANY(sv))->xiv_iv = (IV) (val)); } STMT_END
#endif

#else
__UNDEFINED__ SvUV_set(sv, val) \
STMT_START { assert(SvTYPE(sv) == SVt_IV || SvTYPE(sv) >= SVt_PVIV); \
(((XPVUV*) SvANY(sv))->xuv_uv = (val)); } STMT_END
#endif

=xsubs

IV
TestSvUV_set(sv, val)
   SV *sv
   UV val
CODE:
   SvUV_set(sv, val);
RETVAL = SvUVX(sv) == val ? 42 : -1;
OUTPUT:
  RETVAL

IV
TestSvPVX_const(sv)
  SV *sv
  CODE:
    RETVAL = strEQ(SvPVX_const(sv), "mhx") ? 43 : -1;
OUTPUT:
  RETVAL

IV
TestSvPVX_mutable(sv)
  SV *sv
  CODE:
    RETVAL = strEQ(SvPVX_mutable(sv), "mhx") ? 44 : -1;
OUTPUT:
  RETVAL

void
TestSvSTASH_set(sv, name)
  SV *sv
  char *name
  CODE:
    sv = SvRV(sv);
    SvRFCNT_dec(SvSTASH(sv));
    SvSTASH_set(sv, (HV*) SvRFCNT_inc(gv_stashpv(name, 0)));

my $foo = 5;
ok(&Devel::PPPort::TestSvUV_set($foo, 12345), 42);
ok(&Devel::PPPort::TestSvPVX_const("mhx"), 43);
ok(&Devel::PPPort::TestSvPVX_mutable("mhx"), 44);

my $bar = [];
bless $bar, 'foo';
ok($bar->[0], 'foobar');
Devel::PPPort::TestSvSTASH_set($bar, 'bar');
ok($bar->[0], 'hacker');
package foo;
sub x { 'foobar' }
package bar;

sub x { 'hacker' }

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#############################################################################
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##
#############################################################################

=provides
gv_fetchpvn_flags

=implementation

#define gv_fetchpvn_flags
#if [ NEED gv_fetchpvn_flags ]

GV*
gv_fetchpvn_flags(pTHX_const char* name, STRLEN len, int flags, int types) {
  char *namepv = savepvn(name, len);
  GV* stash = gv_fetchpv(namepv, TRUE, SVt_PVHV);
  Safefree(namepv);
  return stash;
}
#endif
#endif

__UNDEFINED__ GvSV(gv) GvSVn(gv)
__UNDEFINED__ isGV_with_GP(gv) isGV(gv)
__UNDEFINED__ gv_fetchsv(name, flags, svt) gv_fetchpv(SvPV_nolen_const(name), flags, svt)
__UNDEFINED__ get_cvn_flags(name, namelen, flags) get_cv(name, flags)
__UNDEFINED__ gv_init_pvn(gv, stash, ptr, len, flags) gv_init(gv, stash, ptr, len, flags & GV_ADDMULTI ? TRUE : FALSE)
=xsinit

define NEED_gv_fetchpvn_flags

=xsubs

int GvSVn()
  PREINIT:
    GV* gv;
  CODE:
    RETVAL = 0;
    gv = gv_fetchpvs("Devel::PPPort::GvTest", GV_AddMulti, SVt_PVGV);
    if (GvSVn(gv) != NULL)
      { RETVAL++;  }
  OUTPUT:
    RETVAL

int isGV_with_GP()
  PREINIT:
    GV* gv;
  CODE:
    RETVAL = 0;
    gv = gv_fetchpvs("Devel::PPPort::GvTest", GV_AddMulti, SVt_PVGV);
    if (isGV_with_GP(gv))
      { RETVAL++;  }
    if (!isGV(&PL_sv_undef))
      { RETVAL++;  }
  OUTPUT:
    RETVAL

int get_cvn_flags()
  PREINIT:
    CV* xv;
  CODE:
    RETVAL = 0;
    xv = get_cvn_flags("Devel::PPPort::foobars", sizeof("Devel::PPPort::foobars")-1, 0);
    if(xv == NULL) RETVAL++;
    xv = get_cvn_flags("Devel::PPPort::foobars", sizeof("Devel::PPPort::foobars")-1, GV_AddMulti);
    if(xv && SvTYPE(xv) == SVt_PVSV) RETVAL++;
xv = get_cvn_flags("Devel::PPPort::get_cvn_flags", sizeof("Devel::PPPort::get_cvn_flags")-1, 0);
if(xv && SvTYPE(xv) == SVt_PVCV) RETVAL++;

OUTPUT:
RETVAL

SV*
gv_fetchpvn_flags()
CODE:
#if { VERSION < 5.9.2 } || { VERSION > 5.9.3 } /* 5.9.2 and 5.9.3 ignore the length param */
  RETVAL = newRV_inc((SV*)gv_fetchpvn_flags("Devel::PPPort::VERSIONFAKE", sizeof("Devel::PPPort::VERSIONFAKE")-5, 0, SVt_PV));
#else
  RETVAL = newRV_inc((SV*)gv_fetchpvn_flags("Devel::PPPort::VERSION", 0, 0, SVt_PV));
#endif

OUTPUT:
RETVAL

SV*
gv_fetchsv(name)
SV *name
CODE:
  RETVAL = newRV_inc((SV*)gv_fetchsv(name, 0, SVt_PV));

OUTPUT:
RETVAL

dvoid
gv_init_type(namesv, multi, flags)
SV* namesv
int multi
I32 flags
PREINIT:
  HV *defstash = gv_stashpv("main", 0);
  STRLEN len;
  const char * const name = SvPV_const(namesv, len);
  GV *gv = *(GV**)hv_fetch(defstash, name, len, TRUE);
PPCODE:
  if (SvTYPE(gv) == SVt_PVGV)
    Perl_croak(aTHX_ "GV is already a PVGV");
  if (multi) flags |= GV_ADDMULTI;
  gv_init_pvn(gv, defstash, name, len, flags);
XPUSHs( gv ? (SV*)gv : &PL_sv_undef);

=tests plan => 7
ok(Devel::PPPort::GvSVn(), 1);
ok(Devel::PPPort::isGV_with_GP(), 2);
ok(Devel::PPPort::get_cvn_flags(), 3);

ok(Devel::PPPort::gv_fetchpvn_flags(), Devel::PPPort::VERSION);

ok(Devel::PPPort::gv_fetchsv("Devel::PPPort::VERSION"), Devel::PPPort::VERSION);

ok(Devel::PPPort::gv_init_type("sanity_check", 0, 0), "main::sanity_check");
ok($::{sanity_check});

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####################################################################
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##
####################################################################

=provides

__UNDEFINED__

=implementation

#ifndef HAS_MEMCMP
  __UNDEFINED__ memNE(s1, s2, l) (memcmp(s1, s2, l))
  __UNDEFINED__ memEQ(s1, s2, l) (!memcmp(s1, s2, l))
#else
  __UNDEFINED__ memNE(s1, s2, l) (bcmp(s1, s2, l))
  __UNDEFINED__ memEQ(s1, s2, l) (!bcmp(s1, s2, l))
#endif

__UNDEFINED__ memEQs(s1, l, s2) \n    (sizeof(s2)-1 == l && memEQ(s1, (s2 ""), (sizeof(s2)-1)))
__UNDEFINED__ memNEs(s1, l, s2) !memEQs(s1, l, s2)

__UNDEFINED__ MoveD(s, d, n, t) memmove((char*)(d), (char*)(s), (n) * sizeof(t))
__UNDEFINED__ CopyD(s, d, n, t) memcpy((char*)(d), (char*)(s), (n) * sizeof(t))
#ifndef HAS_MEMSET
  __UNDEFINED__ ZeroD(d, n, t) memzero((char*)(d), (n) * sizeof(t))
#else
  __UNDEFINED__ ZeroD(d, n, t) memset((char*)(d), 0, (n) * sizeof(t))
#endif

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#ifndef

#define __UNDEFINED__

ZeroD(d,n,t)    ((void)memzero((char*)(d), (n) * sizeof(t)), d)
#endif

#define __UNDEFINED__

PoisonWith(d,n,t,b)  (void)memset((char*)(d), (U8)(b), (n) * sizeof(t))
#define __UNDEFINED__

PoisonNew(d,n,t)     PoisonWith(d,n,t,0xAB)
#define __UNDEFINED__

PoisonFree(d,n,t)    PoisonWith(d,n,t,0xEF)
#define __UNDEFINED__

Poison(d,n,t)        PoisonFree(d,n,t)
#define __UNDEFINED__

Newx(v,n,t)     New(0,v,n,t)
#define __UNDEFINED__

Newxc(v,n,t,c)  Newc(0,v,n,t,c)
#define __UNDEFINED__

Newxz(v,n,t)    Newz(0,v,n,t)

=xsubs

int
checkmem()

PREINIT:
    char *p;

CODE:
    RETVAL = 0;
    Newx(p, 6, char);
    CopyD("Hello", p, 6, char);
    if (memEQ(p, "Hello", 6))
        RETVAL++;
    ZeroD(p, 6, char);
    if (memEQ(p, "\0\0\0\0\0\0", 6))
        RETVAL++;
    if (memEQs(p, 6, "\0\0\0\0\0\0"))
        RETVAL++;
    Poison(p, 6, char);
    if (memNE(p, "\0\0\0\0\0\0", 6))
        RETVAL++;
    if (memNES(p, 6, "\0\0\0\0\0\0"))
        RETVAL++;
    Safefree(p);

    Newxz(p, 6, char);
    if (memEQ(p, "\0\0\0\0\0\0", 6))
        RETVAL++;
    Safefree(p);

    Newxc(p, 3, short, char);
    Safefree(p);

OUTPUT:
    RETVAL
=tests plan => 1
ok(Devel::PPPort::checkmem(), 6);
Found in path(s):
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################################################################################
#
# mktests.PL -- generate test files for Devel::PPPort
#
################################################################################
#
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#
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# modify it under the same terms as Perl itself.
#
################################################################################
use strict;
$^W = 1;
require "./parts/ppptools.pl";
my $template = do { local $/; <DATA> };
generate_tests();
sub generate_tests
{
my @tests;
my $file;
for $file (all_files_in_dir('parts/inc')) {
my($testfile) = $file =~ /(\w+)\.?$/; # VMS has a trailing dot
$testfile = "t/$testfile.t";
my $spec = parse_partspec($file);
my $plan = 0;
if (exists $spec->{tests}) {
exists $spec->{OPTIONS}{tests} &&
exists $spec->{OPTIONS}{tests}{plan}
or die "No plan for tests in $file\n";

Open Source Used In APIC-SE-BATMAN 2.1.1d 25782


print "generating $testfile\n";

my $tmpl = $template;
$tmpl =~ s/__SOURCE__/$file/mg;
$tmpl =~ s/__PLAN__/$spec->{OPTIONS}{tests}{plan}/mg;
$tmpl =~ s/^__TESTS__$/$spec->{tests}/mg;

open FH, ">$testfile" or die "$testfile: $!
";
print FH $tmpl;
close FH;

push @tests, $testfile;
}
}

return @tests;

__DATA__

# # !!!!!  Do NOT edit this file directly!  !!!!!
# # Edit mktests.PL and/or __SOURCE__ instead.
# # This file was automatically generated from the definition files in the
# parts/inc/ subdirectory by mktests.PL. To learn more about how all this
# works, please read the F<HACKERS> file that came with this distribution.
#

BEGIN {
if ($ENV{'PERL_CORE'}) {
    chdir 't' if -d 't';
    @INC = ('./lib', './ext/Devel-PPPort/'); if -d './lib' && -d './ext';
    require Config; import Config;
    use vars '%Config';
    if ($Config{'extensions'} !~ m[ Devel/PPPort ]{ [ ' ' } { ] }) {
        print "1..0 # Skip -- Perl configured without Devel::PPPort module\n";
        exit 0;
    }
}
else {
    unshift @INC, 't';
}

sub load {
eval "use Test";
require 'testutil.pl' if $@;
}

if (__PLAN__) {
  load();
  plan(tests => __PLAN__);  
}

use Devel::PPPort;
use strict;
$^W = 1;

package Devel::PPPort;
use vars 'ISA';
require DynaLoader;
ISA = qw(DynaLoader);
bootstrap Devel::PPPort;

package main;

__TESTS__

Found in path(s):
* /opt/cola/permits/1139281956_1614508108.19/0/perl-Devel-PPPort-3.36-5.el8-1.src.rpm-cosi-expand-archive-
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#******************************************************************************
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##
#******************************************************************************

=provides

PL_ppaddr
PL_no_modify
PL_DBsignal
PL_DBsingle
PL_DBsub
PL_DBtrace
PL_Sv
PL_bufend
PL_bufptr
PL_compiling
PL_copline
PL_curcop
PL_curstash
PL_debstash
PL_defgv
PL_diehook
PL_dirty
PL_dowarn
PL_errgv
PL_error_count
PL_expect
PL_hexdigit
PL_hints
PL_in_my
PL_in_my_stash
PL_laststatval
PL_lex_state
PL_lex_stuff
PL_linestr
PL_na
PL_parser
PL_perl_destruct_level
PL_perldb
PL_rsfp_filters
PL_rsfp
PL_stack_base
PL_stack_sp
PL_statcache
PL_stdingv
PL_sv_arenaroot
PL_sv_no
PL_sv_UNDEF
PL_sv_yes
PL_tainted
PL_tainting
PL_tokenbuf
PL_signals
PERL_SIGNALS_UNSAFE_FLAG

=implementation

#ifndef PERL_SIGNALS_UNSAFE_FLAG

#define PERL_SIGNALS_UNSAFE_FLAG 0x0001

Open Source Used In APIC-SE-BATMAN 2.1.1d  25785
#if { VERSION < 5.8.0 }
# define D_PPP_PERL_SIGNALS_INIT PERL_SIGNALS_UNSAFE_FLAG
#else
# define D_PPP_PERL_SIGNALS_INIT 0
#endif

__NEED_VAR__ U32 PL_signals = D_PPP_PERL_SIGNALS_INIT;

#endif

/* Hint: PL_ppaddr */
* Calling an op via PL_ppaddr requires passing a context argument
* for threaded builds. Since the context argument is different for
* 5.005 perls, you can use aTHXR (supplied by ppport.h), which will
* automatically be defined as the correct argument.
*/

#if { VERSION <= 5.005_05 }
/* Replace: 1 */
# define PL_ppaddr ppaddr
# define PL_no_modify no_modify
/* Replace: 0 */
#endif

#if { VERSION <= 5.004_05 }
/* Replace: 1 */
# define PL_DBsignal DBsignal
# define PL_DBsingle DBsingle
# define PL_DBsub DBsub
# define PL_DBtrace DBtrace
# define PL_Sv Sv
# define PL_bufend bufend
# define PL_bufptr bufptr
# define PL_compiling compiling
# define PL_copline copline
# define PL_curcop curcop
# define PL_curstash curstash
# define PL_debstash debstash
# define PL_defgv defgv
# define PL_diehook diehook
# define PL_dirty dirty
# define PL_dowarn dowarn
# define PL_errgv errgv
# define PL_error_count error_count
# define PL_expect expect
# define PL_hexdigit hexdigit
# define PL_hints hints

# define PL_in_my        in_my
# define PL_laststatval laststatval
# define PL_lex_state   lex_state
# define PL_lex_stuff   lex_stuff
# define PL_linestr     linestr
# define PL_na          na
# define PL_perl_destruct_level perl_destruct_level
# define PL_perldb      perldb
# define PL_rsfp_filters rsfp_filters
# define PL_rsfp        rsfp
# define PL_stack_base  stack_base
# define PL_stack_sp    stack_sp
# define PL_statcache   statcache
# define PL_stdingv     stdingv
# define PL_sv_arenaroot sv_arenaroot
# define PL_sv_no       sv_no
# define PL_sv_UNDEF    sv_UNDEF
# define PL_sv_YES      sv_YES
# define PL_tainted     tainted
# define PL_tainting    tainting
# define PL_tokenbuf    tokenbuf

/* Replace: 0 */
#endif

/* Warning: PL_parser */
* For perl versions earlier than 5.9.5, this is an always
* non-NULL dummy. Also, it cannot be dereferenced. Don't
* use it if you can avoid is and unless you absolutely know
* what you're doing.
* If you always check that PL_parser is non-NULL, you can
* define DPPP_PL_parser_NO_DUMMY to avoid the creation of
* a dummy parser structure.
*/

#if { VERSION >= 5.9.5 }
  #ifdef DPPP_PL_parser_NO_DUMMY
    # define D_PPP_my_PL_parser_var(var) ((PL_parser ? PL_parser : (croak("panic: PL_parser == NULL in %s:%d", __FILE__, __LINE__), (yy_parser *) NULL))->var)
  #else
    # ifdef DPPP_PL_parser_NO_DUMMY_WARNING
    #define D_PPP_parser_dummy_warning(var)
    #else
    #define D_PPP_parser_dummy_warning(var) warn("warning: dummy PL_" #var " used in %s:%d", __FILE__, __LINE__). (yy_parser *) NULL))-&gt;var)
    #endif
  #endif
  # define D_PPP_my_PL_parser_var(var)
  # endif
  #ifdef DPPP_PL_parser_NO_DUMMY_WARNING
    # define D_PPP_my_PL_parser_var(var) ((PL_parser ? PL_parser : (croak("panic: PL_parser == NULL in %s:%d", __FILE__, __LINE__), (yy_parser *) NULL))-&gt;var)
  #else
    # define D_PPP_my_PL_parser_var(var) ((PL_parser ? PL_parser : (croak("panic: PL_parser == NULL in %s:%d", __FILE__, __LINE__), (yy_parser *) NULL))-&gt;var)
  #endif
#endif
__NEED_DUMMY_VAR__ yy_parser PL_parser;
#endif

/* PL_expect, PL_copline, PL_rsfp, PL_rsfp_filters, PL_linestr, PL_bufptr, PL_bufend, PL_lex_state, PL_lex_stuff, PL_tokenbuf depends on PL_parser */
/* Warning: PL_expect, PL_copline, PL_rsfp, PL_rsfp_filters, PL_linestr, PL_bufptr, PL_bufend, PL_lex_state, PL_lex_stuff, PL_tokenbuf
 * Do not use this variable unless you know exactly what you're
 * doing. It is internal to the perl parser and may change or even
 * be removed in the future. As of perl 5.9.5, you have to check
 * for (PL_parser != NULL) for this variable to have any effect.
 * An always non-NULL PL_parser dummy is provided for earlier
 * perl versions.
 * If PL_parser is NULL when you try to access this variable, a
 * dummy is being accessed instead and a warning is issued unless
 * you define DPPP_PL_parser_NO_DUMMY_WARNING.
 * If DPPP_PL_parser_NO_DUMMY is defined, the code trying to access
 * this variable will croak with a panic message.
 */

#if define PL_expect
#define D_PPP_my_PL_parser_var(expect)
#endif
#if define PL_copline
#define D_PPP_my_PL_parser_var(copline)
#endif
#if define PL_rsfp
#define D_PPP_my_PL_parser_var(rsfp)
#endif
#if define PL_rsfp_filters
#define D_PPP_my_PL_parser_var(rsfp_filters)
#endif
#if define PL_linestr
#define D_PPP_my_PL_parser_var(linestr)
#endif
#if define PL_bufptr
#define D_PPP_my_PL_parser_var(bufptr)
#endif
#if define PL_bufend
#define D_PPP_my_PL_parser_var(bufend)
#endif
#if define PL_lex_state
#define D_PPP_my_PL_parser_var(lex_state)
#endif
#if define PL_lex_stuff
#define D_PPP_my_PL_parser_var(lex_stuff)
#endif
#if define PL_tokenbuf
#define D_PPP_my_PL_parser_var(tokenbuf)
#endif
#if define PL_in_my
#define D_PPP_my_PL_parser_var(in_my)
#endif
#if define PL_in_my_stash
#define D_PPP_my_PL_parser_var(in_my_stash)
#endif
#if define PL_error_count
#define D_PPP_my_PL_parser_var(error_count)
#endif

#endif

/* ensure that PL_parser != NULL and cannot be dereferenced */
#define NEED_PL_signals
#define NEED_PL_parser
#define DPPP_PL_parser_NO_DUMMY_WARNING

=xsin

define NEED_PL_signals
define NEED_PL_parser
define DPPP_PL_parser_NO_DUMMY_WARNING
U32 get_PL_signals_1(void) {
    #ifdef PERL_NO_GET_CONTEXT
    dTHX;
    #endif
    return PL_signals;
}

extern U32 get_PL_signals_2(void);
extern U32 get_PL_signals_3(void);
int no_dummy_parser_vars(int);
int dummy_parser_warning(void);

/* No PTRSIZE IN 5.004 and below, so PTR2IV would warn and possibly misbehave */
#if { VERSION > 5.004 }  
#define ppp_TESTVAR(var)          STMT_START { mXPUSHi(PTR2IV(&var)); count++; } STMT_END
#else
#define ppp_TESTVAR(var)          STMT_START { mXPUSHi(&var); count++; } STMT_END
#endif

#define ppp_PARSERVAR(type, var)  STMT_START {                   
    type volatile my_ ## var;    
    type volatile *my_p_ ## var; 
    my_ ## var = var;            
    my_p_ ## var = &var;         
    var = my_ ## var;            
    var = *my_p_ ## var;         
    mXPUSHi(&var != NULL);       
    count++;                     
 } STMT_END

#define ppp_PARSERVAR_dummy       STMT_START {                   
    mXPUSHi(1);                  
    count++;                     
 } STMT_END

#if { VERSION < 5.004 }  
#define ppp_rsfp_t FILE *
#else
#define ppp_rsfp_t PerlIO *
#endif

#if { VERSION < 5.6.0 }  
#define ppp_expect_t expectation
#else
#define ppp_expect_t int
#endif
int compare_PL_signals()

    CODE:
    {
        U32 ref = get_PL_signals_1();
        RETVAL = ref == get_PL_signals_2() && ref == get_PL_signals_3();
    }
    OUTPUT:
    RETVAL

SV *
PL_sv_undef()

    CODE:
    RETVAL = newSVsv(&PL_sv_undef);
    OUTPUT:
    RETVAL

SV *
PL_sv_yes()

    CODE:
    RETVAL = newSVsv(&PL_sv_yes);
    OUTPUT:
SV *
PL_sv_no()
    CODE:
        RETVAL = newSVsv(&PL_sv_no);
    OUTPUT:
        RETVAL

int
PL_na(string)
    char *string
    CODE:
        PL_na = strlen(string);
        RETVAL = PL_na;
    OUTPUT:
        RETVAL

SV *
PL_Sv()
    CODE:
        PL_Sv = newSVpv("mhx", 0);
        RETVAL = PL_Sv;
    OUTPUT:
        RETVAL

SV *
PL_tokenbuf()
    CODE:
        RETVAL = newSViv(PL_tokenbuf[0]);
    OUTPUT:
        RETVAL

SV *
PL_parser()
    CODE:
        RETVAL = newSViv(PL_parser != NULL);
    OUTPUT:
        RETVAL

SV *
PL_hexdigit()
    CODE:
        RETVAL = newSVpv((char *) PL_hexdigit, 0);
    OUTPUT:
        RETVAL

SV *
PL_hints()

CODE:
    RETVAL = newSViv((IV) PL_hints);

OUTPUT:
    RETVAL

void
PL_ppaddr(string)

    char *string

PPCODE:
    PUSHMARK(SP);
    mXPUSHs(newSVpv(string, 0));
    PUTBACK;
    ENTER;
    (void)*((PL_ppaddr[OP_UC])(aTHXR));
    SPAGAIN;
    LEAVE;
    XSRETURN(1);

void
other_variables()

PREINIT:
    int count = 0;

PPCODE:
    ppp_TESTVAR(PL_DBsignal);
    ppp_TESTVAR(PL_DBsingle);
    ppp_TESTVAR(PL_DBsub);
    ppp_TESTVAR(PL_DBtrace);
    ppp_TESTVAR(PL_compiling);
    ppp_TESTVAR(PL_curcop);
    ppp_TESTVAR(PL_curstash);
    ppp_TESTVAR(PL_debstash);
    ppp_TESTVAR(PL_defgv);
    ppp_TESTVAR(PL_diehook);
    #if { VERSION >= 5.13.7 }
    /* can't get a pointer any longer */
    mXPUSHi(PL_dirty ? 1 : 1);
    count++;
    #else
    ppp_TESTVAR(PL_dirty);
    #endif
    ppp_TESTVAR(PL_dowarn);
    ppp_TESTVAR(PL_errgv);
    ppp_TESTVAR(PL_laststatval);
    ppp_TESTVAR(PL_no_modify);
    ppp_TESTVAR(PL_perl_destruct_level);
    ppp_TESTVAR(PL_perldb);
    ppp_TESTVAR(PL_stack_base);
ppp_TESTVAR(PL_stack_sp);
ppp_TESTVAR(PL_statcache);
ppp_TESTVAR(PL_stdigv);
ppp_TESTVAR(PL_sv_arenaroot);
ppp_TESTVAR(PL_tainted);
ppp_TESTVAR(PL_tainting);

ppp_PARSERVAR(ppp_expect_t, PL_expect);
ppp_PARSERVAR(line_t, PL_copline);
ppp_PARSERVAR(ppp_rsfp_t, PL_rsfp);
ppp_PARSERVAR(AV *, PL_rsfp_filters);
ppp_PARSERVAR(SV *, PL_linestr);
ppp_PARSERVAR(char *, PL_bufptr);
ppp_PARSERVAR(char *, PL_bufend);
ppp_PARSERVAR(ppp_lex_state_t, PL_lex_state);
ppp_PARSERVAR(SV *, PL_lex_stuff);
ppp_PARSERVAR(ppp_error_count_t, PL_error_count);
ppp_PARSERVAR(ppp_in_my_t, PL_in_my);

#if { VERSION >= 5.5.0 }
ppp_PARSERVAR(HV*, PL_in_my_stash);
#else
ppp_PARSERVAR_dummy;
#endif
XSRETURN(count);

int
no_dummy_parser_vars(check)
    int check

int
dummy_parser_warning()

=tests plan => 52

ok(Devel::PPPort::compare_PL_signals());

ok(!defined(&Devel::PPPort::PL_sv_undef()));
ok(&Devel::PPPort::PL_sv_yes());
ok(!&Devel::PPPort::PL_sv_no());
ok(&Devel::PPPort::PL_na("abcd"), 4);
ok(&Devel::PPPort::PL_Sv(), "mhx");
ok(defined &Devel::PPPort::PL_tokenbuf());
ok($) >= 5.009005 || &Devel::PPPort::PL_parser();
ok(&Devel::PPPort::PL_hexdigit() =~ /^[0-9a-zA-Z]+$/);
ok(defined &Devel::PPPort::PL_hints());
ok(&Devel::PPPort::PL_ppaddr("mhx"), "MHX");

for (&Devel::PPPort::other_variables()) {

ok($_ != 0);

{
  my @w;
  my $fail = 0;
  
  local $SIG{'__WARN__'} = sub { push @w, @_ }
  ok(&Devel::PPPort::dummy_parser_warning());
}

if ($] >= 5.009005) {
  ok(@w >= 0);
  for (@w) {
    print "# $_";
    unless (1/*warning: dummy PL_bufptr used in.*module3.*:d+/i) {
      warn $_
      $fail++;
    }
  }
} else {
  ok(@w == 0);
}

ok($fail, 0);

ok(&Devel::PPPort::no_dummy_parser_vars(1) >= ($] < 5.009005 ? 1 : 0));

eval { &Devel::PPPort::no_dummy_parser_vars(0) };

if ($] < 5.009005) {
  ok($@, "");
} else {
  if ($@) {
    print "# $@
    ok($@ =- /^panic: PL_parser == NULL in.*module2.*:d+/i);
  }
  else {
    ok(1);
  }
}

Found in path(s):
No license file was found, but licenses were detected in source scan.
=provides

newSVpvn_share
__UNDEFINED__

=implementation

/* Hint: newSVpvn_share
* The SVs created by this function only mimic the behaviour of
* shared PVs without really being shared. Only use if you know
* what you're doing.
*/

#ifndef newSVpvn_share
#if { NEED newSVpvn_share }

SV *
newSVpvn_share(pTHX_ const char *src, I32 len, U32 hash)
{
    SV *sv;
    if (len < 0)
        len = -len;
    if (!hash)
        PERL_HASH(hash, (char*) src, len);
    sv = newSVpvn((char *) src, len);
    sv_upgrade(sv, SVt_PVIV);
    SvIVX(sv) = hash;
    SvREADONLY_on(sv);
    SvPOK_on(sv);
    return sv;
}
#endif
#endif
__UNDEFINED__ SvSHARED_HASH(sv) (0 + SvUVX(sv))

=xsinit

#define NEED_newSVpvn_share

=xsubs

int
newSVpvn_share()

PREINIT:
    const char *s;
    SV *sv;
    STRLEN len;
    U32 hash;

CODE:
    RETVAL = 0;
    s = "mhx";
    len = 3;
    PERL_HASH(hash, (char *) s, len);
    sv = newSVpvn_share(s, len, 0);
    s = 0;
    RETVAL += strEQ(SvPV_nolen_const(sv), "mhx");
    RETVAL += SvCUR(sv) == len;
    RETVAL += SvSHARED_HASH(sv) == hash;
    SvREFCNT_dec(sv);
    s = "foobar";
    len = 6;
    PERL_HASH(hash, (char *) s, len);
    sv = newSVpvn_share(s, -(I32) len, hash);
    s = 0;
    RETVAL += strEQ(SvPV_nolen_const(sv), "foobar");
    RETVAL += SvCUR(sv) == len;
    RETVAL += SvSHARED_HASH(sv) == hash;
    SvREFCNT_dec(sv);

OUTPUT:
    RETVAL

=tests plan => 1

ok(&Devel::PPPort::newSVpvn_share(), 6);

Found in path(s):
No license file was found, but licenses were detected in source scan.
1. DESCRIPTION

Perl's API has changed over time, gaining new features, new functions, increasing its flexibility, and reducing the impact on the C namespace environment (reduced pollution). The header file written by this module, typically F<ppport.h>, attempts to bring some of the newer Perl API features to older versions of Perl, so that you can worry less about keeping track of old releases, but users can still reap the benefit.

2. INSTALLATION

Installation of the Devel::PPPort module follows the standard Perl Way and should not be harder than:

perl Makefile.PL
make
test
make install

Note that you may need to become superuser to 'make install'.

If you're building the module under Windows, you may need to use a different make program, such as 'nmake', instead of 'make'.

3. DOCUMENTATION

To see the documentation, use the perldoc command:

perldoc Devel::PPPort
You can also visit CPAN Search and see the documentation online as pretty nice HTML. This is also where you will find the most recent version of this module:

http://search.cpan.org/~mhx/Devel-PPPort/

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4. BUGS
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If you find any bugs, Devel::PPPort doesn't seem to build on your system, or any of its tests fail, please file an issue here:

https://github.com/mhx/Devel-PPPort/issues/

to create a ticket for the module.

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5. COPYRIGHT
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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.

Found in path(s):
* /opt/cola/permits/1139281956_1614508108.19/0/perl-Devel-PPPort-3.36-5.el8-1.src.rpm-cosi-expand-archive-
No license file was found, but licenses were detected in source scan.

#########################################################
##
##  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.
##
#########################################################

=provides
newCONSTSUB
/* Hint: newCONSTSUB
* Returns a CV* as of perl-5.7.1. This return value is not supported
* by Devel::PPPort.
*/

/* newCONSTSUB from IO.xs is in the core starting with 5.004_63 */
#if { VERSION < 5.004_63 } && { VERSION != 5.004_05 } && { NEED newCONSTSUB }

/* This is just a trick to avoid a dependency of newCONSTSUB on PL_parser */
/* (There's no PL_parser in perl < 5.005, so this is completely safe) */
#define D_PPP_PL_copline PL_copline

void
newCONSTSUB(HV *stash, const char *name, SV *sv)
{
    U32 oldhints = PL_hints;
    HV *old_cop_stash = PL_curcop->cop_stash;
    HV *old_curstash = PL_curstash;
    line_t oldline = PL_curcop->cop_line;
    PL_curcop->cop_line = D_PPP_PL_copline;
    PL_hints &= ~HINT_BLOCK_SCOPE;
    if (stash)
        PL_curstash = PL_curcop->cop_stash = stash;

    newSUB(
        #if   { VERSION < 5.003_22 }
            start_subparse(),
        #elif { VERSION == 5.003_22 }
            start_subparse(0),
        #else /* 5.003_23 onwards */
            start_subparse(FALSE, 0),
        #endif
        newSVOP(OP_CONST, 0, newSVpv((char *) name, 0)),
        newSVOP(OP_CONST, 0, &PL_sv_no), /* SvPV(&PL_sv_no) == "" -- GMB */
        newSTATEOP(0, Nullch, newSVOP(OP_CONST, 0, sv))
    );

    PL_hints = oldhints;
    PL_curcop->cop_stash = old_cop_stash;
    PL_curstash = old_curstash;
    PL_curcop->cop_line = oldline;
}
void call_newCONSTSUB_1(void)
{
#ifdef PERL_NO_GET_CONTEXT
    dTHX;
#endif
    newCONSTSUB(gv_stashpv("Devel::PPPort", FALSE), "test_value_1", newSViv(1));
}

extern void call_newCONSTSUB_2(void);
extern void call_newCONSTSUB_3(void);

=tests plan => 3

&Devel::PPPort::call_newCONSTSUB_1();
ok(&Devel::PPPort::test_value_1(), 1);

&Devel::PPPort::call_newCONSTSUB_2();
ok(&Devel::PPPort::test_value_2(), 2);

&Devel::PPPort::call_newCONSTSUB_3();
ok(&Devel::PPPort::test_value_3(), 3);

Found in path(s):
No license file was found, but licenses were detected in source scan.
=head1 NAME

HACKERS - Devel::PPPort internals for hackers

=head1 SYNOPSIS

So you probably want to hack C<Devel::PPPort>?

Well, here's some information to get you started with what's lying around in this distribution.

=head1 DESCRIPTION

=head2 How to build 366 versions of Perl

C<Devel::PPPort> supports Perl versions between 5.003 and bleadperl. To guarantee this support, I need some of these versions on my machine. I currently have 366 different Perl version/configuration combinations installed on my laptop.

As many of the old Perl distributions need patching to compile cleanly on newer systems (and because building 366 Perls by hand just isn't fun), I wrote a tool to build all the different versions and configurations. You can find it in F<devel/buildperl.pl>. It can currently build the following Perl releases:

```plaintext
5.003
5.004 - 5.004_05
5.005 - 5.005_04
5.6.x
5.7.x
5.8.x
5.9.x
5.1x.x
```

=head2 Fully automatic API checks

Knowing which parts of the API are not backwards compatible and probably need C<Devel::PPPort> support is another problem that's not easy to deal with manually. If you run

```bash
perl Makefile.PL --with-apicheck
```

a C file is generated by F<parts/apicheck.pl> that is compiled and linked with C<Devel::PPPort>. This C file has the purpose of using each of the public API functions/macros once.

The required information is derived from C<parts/embed.fnc> (just
a copy of bleedperl's C<embed.fnc>, C<parts/apidoc.fnc> (which
is generated by F<devel/mkapidoc.sh> and simply collects the rest
of the apidoc entries spread over the Perl source code) and
C<parts/ppport.fnc> (which lists all API provided purely by
Devel::PPPort).
The generated C file C<apicheck.c> is currently about 500k in size
and takes quite a while to compile.

Usually, C<apicheck.c> won't compile with older perls. And even if
it compiles, there's still a good chance of the dynamic linker
failing at C<make test> time. But that's on purpose!

We can use these failures to find changes in the API automatically.
The two Perl scripts F<devel/mktodo> and F<devel/mktodo.pl>
repeatedly run C<Devel::PPPort> with the apicheck code through
all different versions of perl. Scanning the output of the compiler
and the dynamic linker for errors, the files in F<parts/todo/> are
generated. These files list all parts of the public API that don't
work with less than a certain version of Perl.

This information is in turn used by F<parts/apicheck.pl> to mask
API calls in the generated C file for these versions, so the
process can be stopped by the time F<apicheck.c> compiles cleanly
and the dynamic linker is happy. (Actually, this process may generate
false positives, so by default each API call is checked once more
afterwards.)

Running C<devel/mktodo> takes about an hour, depending of course
on the machine you're running it on. If you run it with
the C<--nocheck> option, it won't recheck the API calls that failed
in the compilation stage and it'll take significantly less time.
Running with C<--nocheck> should usually be safe.

When running C<devel/mktodo> with the C<--base> option, it will
generate the I<baseline> todo files by disabling all functionality
provided by C<Devel::PPPort>. These are required for implementing
the C<--compat-version> option of the C<ppport.h> script. The
baseline todo files hold the information about which version of
Perl lacks a certain part of the API.

However, only the documented public API can be checked this way.
And since C<Devel::PPPort> provides more macros, these would not be
affected by C<--compat-version>. It's the job of F<devel/scanprov>
to figure out the baseline information for all remaining provided
macros by scanning the include files in the F<CORE> directory of
various Perl versions.

The whole process isn't platform independent. It has currently been
tested only under Linux, and it definitely requires at least C\texttt{gcc} and the C\texttt{nm} utility.

It's not very often that one has to regenerate the baseline and todo files. If you have to, you can either run F\texttt{devel/regenerate} or just execute the following steps by hand:

=over

=item *

You need a whole bunch of different Perls. The more, the better. You can use F\texttt{devel/buildperl.pl} to build them. I keep my perls in F\texttt{/tmp/perl}, so most of the tools take this as a default.

=item *

You also need a freshly built bleadperl that is in the path under exactly this name. (The name of the executable is currently hardcoded in F\texttt{devel/mktodo} and F\texttt{devel/scanprov}.)

=item *

Remove all existing todo files in the F\texttt{parts/base} and F\texttt{parts/todo} directories.

=item *

Update the API information. Copy the latest F\texttt{embed.fnc} file from bleadperl to the F\texttt{parts} directory and run F\texttt{devel/mkapidoc.sh} to collect the remaining information in F\texttt{parts/apidoc.fnc}.

=item *

Build the new baseline by running

perl devel/mktodo --base

in the root directory of the distribution. When it's finished, move all files from the F\texttt{parts/todo} directory to F\texttt{parts/base}.

=item *

Build the new todo files by running

perl devel/mktodo

in the root directory of the distribution.
Finally, add the remaining baseline information by running

```perl
perl Makefile.PL && make
perl devel/scanprov --mode=write
```

=head2 Implementation

Residing in F<parts/inc/> is the "heart" of C<Devel::PPPort>. Each of the files implements a part of the supported API, along with hints, dependency information, XS code and tests. The files are in a POD-like format that is parsed using the functions in F<parts/ppptools.pl>.

The scripts F<PPPort_pm.PL>, F<PPPort_xs.PL> and F<mktests.PL> all use the information in F<parts/inc/> to generate the main module F<PPPort.pm>, the XS code in F<RealPPPort.xs> and various test files in F<t/>.

All of these files could be generated on the fly while building C<Devel::PPPort>, but not having the tests in C<t/> will confuse TEST/harness in the core. Not having F<PPPort.pm> will be bad for viewing the docs on C<search.cpan.org>. So unfortunately, it's unavoidable to put some redundancy into the package.

=head2 Adding stuff to Devel::PPPort

First, check if the code you plan to add fits into one of the existing files in F<parts/inc/>. If not, just start a new one and remember to include it from within F<PPPort_pm.PL>.

Each file holds all relevant data for implementing a certain part of the API:

=over 2

=item *

A list of the provided API in the C<provides> section.

=item *

The implementation to add to F<ppport.h> in the C<implementation> section.
The code required to add to PPPort.xs for testing the implementation. This code goes into the C<xshhead>, C<xshinit>, C<xshmisc>, C<xshboot> and C<xshsubs> section. Have a look at the template at the bottom of F<PPPort_xs.PL> to see where the code ends up.

The tests in the C<tests> section. Remember not to use any fancy modules or syntax elements, as the test code should be able to run with Perl 5.003, which, for example, doesn't support C<my> in C<for>-loops:

for my $x (1, 2, 3) { }    # won't work with 5.003

You can use C<ok()> to report success or failure:

ok($got == 42);
ok($got, $expected);

Regular expressions are not supported as the second argument to C<ok>, because older perls do not support the C<qr> operator.

It's usually the best approach to just copy an existing file and use it as a template.

=head2 Implementation Hints

In the C<implementation> section, you can use

__UNDEFINED__ macro    some definition

instead of

#define macro    some definition
#endif

The macro can have optional arguments and the definition can even span multiple lines, like in

__UNDEFINED__ SvMAGIC_set(sv, val) \
   STMT_START { assert(SvTYPE(sv) >= SV_PVMG); \ 
   (((XPVMG*) SvANY(sv))->xmg_magic = (val)); } STMT_END
This usually makes the code more compact and readable. And you only have to add `__UNDEFINED__` to the `provided` section.

Version checking can be tricky if you want to do it correct. You can use

```c
#if { VERSION < 5.9.3 }
#endif
```

instead of

```c
#if ((PERL_VERSION < 9) || (PERL_VERSION == 9 && PERL_SUBVERSION < 3))
#endif
```

The version number can be either of the new form `<5.x.x>` or of the older form `<5.00x_yy>`. Both are translated into the correct preprocessor statements. It is also possible to combine this with other statements:

```c
#if { VERSION >= 5.004 } && !defined(sv_vcatpvf)
  /* a */
#elif { VERSION < 5.004_63 } && { VERSION != 5.004_05 }
  /* b */
#endif
```

This not only works in the `implementation` section, but also in the `xsubs`, `xsininit`, `xsmisc`, `xshead` and `xboot` sections.

=head2 Testing

To automatically test `Devel::PPPort` with lots of different Perl versions, you can use the `soak` script. Just pass it a list of all Perl binaries you want to test.

=head2 Special Makefile targets

You can use

```bash
make regen
```

To regenerate all of the autogenerated files. To get rid of all generated files (except for `parts/todo/*` and `parts/base/*`), use

```bash
make purge_all
```

That's it.

=head2 Submitting Patches
If you've added some functionality to C<Devel::PPPort>, please consider submitting a patch with your work to GitHub here: L<https://github.com/mhx/Devel-PPPort/issues/>, or by sending a Pull Request.

When submitting patches, please only add the relevant changes and don't include the differences of the generated files. You can use the C<purge_all> target to delete all autogenerated files.

=head2 Integrating into the Perl core

When integrating this module into the Perl core, be sure to remove the following files from the distribution. They are either not needed or generated on the fly when building this module in the core:

MANIFEST
META.yml
PPPort.pm

=head1 COPYRIGHT

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Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

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=head1 SEE ALSO

See L<ppport.h> and L<devel/regenerate>.

=cut

No license file was found, but licenses were detected in source scan.

###PPPort_xs.PL -- generate RealPPPort.xs

```perl
#PPPort_xs.PL -- generate RealPPPort.xs
```

Open Source Used In APIC-SE-BATMAN 2.1.1d 25807
use strict;
$^W = 1;
require "/parts/ppptools.pl";

my %SECTION = (
    xshead => { code => "", header => "/* ---- code from __FILE__ ---- */" },
    xsinit => { code => "", header => "/* ---- code from __FILE__ ---- */" },
    xsmisc => { code => "", header => "/* ---- code from __FILE__ ---- */" },
    xsboot => { code => "", header => "/* ---- code from __FILE__ ---- */", indent => "\t" },
    xsubs  => { code => "", header => "## XSUBs for testing the implementation in __FILE__
                #---------------------------------------------------------------
                ENDHEADER
} );

if (not exists $ENV{PERL_NO_GET_CONTEXT} or $ENV{PERL_NO_GET_CONTEXT}) {
    $SECTION{xsub}{code} .= <<END;
#define PERL_NO_GET_CONTEXT
END
}

my $file;
my $sec;

for $file (all_files_in_dir('parts/inc')) {
    my $spec = parse_partspec($file);

    my $msg = 0;
    for $sec (keys %SECTION) {
        if (exists $spec->{$sec}) {
            $msg++ or print "adding XS code from $file\n";
            if (exists $SECTION{$sec}{header}) {
                my $header = $SECTION{$sec}{header};
                $header .= s/__FILE__/\$file/g;
                $SECTION{$sec}{code} .= $header . "\n";
            }
            $SECTION{$sec}{code} .= $spec->{$sec} . "\n";
        }
    }
}
my $data = do { local $/; <DATA> };

for $sec (keys %SECTION) {
    my $code = $SECTION{$sec}{code};
    if (exists $SECTION{$sec}{indent}) {
        $code =~ s/^/$SECTION{$sec}{indent}/gm;
    }
    $code =~ s/[\r\n]+$/;
    $data =~ s/^__\U$sec\E__$/$code/m;
}

open FH, "RealPPPort.xs" or die "RealPPPort.xs: $!

print FH $data;
close FH;

exit 0;

__DATA__

/*******************************************************************************
* !!!!! Do NOT edit this file directly! -- Edit PPPort_xs.PL instead. !!!!! *
* This file was automatically generated from the definition files in the    *
* parts/inc/ subdirectory by PPPort_xs.PL. To learn more about how all this *
* works, please read the F<HACKERS> file that came with this distribution. *
*******************************************************************************
* Perl/Pollution/Portability
*******************************************************************************
* 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. 
*******************************************************************************

/* ============= BEGIN XSHEAD ============= */

__XSHEAD__
/* =========== END XSHEAD ============================================================== */

#include "EXTERN.h"
#include "perl.h"
#include "XSUB.h"

/* =========== BEGIN XSINIT ============================================================== */
__XSINIT__
/* =========== END XSINIT ============================================================== */

#include "ppport.h"

/* =========== BEGIN XSMISC ============================================================== */
__XSMISC__
/* =========== END XSMISC ============================================================== */

MODULE = Devel::PPPort      PACKAGE = Devel::PPPort

BOOT:
__XSBOOT__

__XSUBS__

Found in path(s):
No license file was found, but licenses were detected in source scan.

******************************************************************************
##
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## 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.
##******************************************************************************

=provides
caller_cx
__UNDEFINED__
=implementation

#ifdef USE_ITHREADS

__UNDEFINED__ CopFILE(c)   ((c)->cop_file)
__UNDEFINED__ CopFILEGV(c) (CopFILE(c) ? gv_fetchfile(CopFILE(c)) : Nullgv)
__UNDEFINED__ CopFILE_set(c,pv)   ((c)->cop_file = savepv(pv))
__UNDEFINED__ CopFILESV(c) (CopFILE(c) ? GvSV(gv_fetchfile(CopFILE(c))) : Nullsv)
__UNDEFINED__ CopFILEAV(c) (CopFILE(c) ? GvAV(gv_fetchfile(CopFILE(c))) : Nullav)
__UNDEFINED__ CopSTASHPV(c) (CopSTASHPV(c) ? HvNAME(c) : Nullch)
__UNDEFINED__ CopSTASH_set(c,pv) (CopSTASHPV(c) ? HvNAME(c) : Nullch)
__UNDEFINED__ CopSTASH_eq(c,hv) ((hv) && (CopSTASHPV(c) == HvNAME(hv)) || (CopSTASHPV(c) & HvNAME(hv)) && strEQ(CopSTASHPV(c), HvNAME(hv))))

#else

__UNDEFINED__ CopFILEGV(c) ((c)->cop_filegv)
__UNDEFINED__ CopFILE_set(c,gv) (CopFILEGV(c) ? gv_fetchfile(c) : (GV*)SvREFCNT_inc(gv))
__UNDEFINED__ CopFILE_set(c,pv) CopFILEGV_set(c,gv) = (GV*)SvREFCNT_inc(gv)
__UNDEFINED__ CopFILESV(c) (CopFILEGV(c) ? GvSV(CopFILEGV(c)) : Nullsv)
__UNDEFINED__ CopFILEAV(c) (CopFILEGV(c) ? GvAV(CopFILEGV(c)) : Nullav)
__UNDEFINED__ CopFILE(c) (CopFILESV(c) ? SvPVX(CopFILESV(c)) : Nullch)
__UNDEFINED__ CopSTASH(c) (CopSTASH(c) ? HvNAME(CopSTASH(c)) : Nullch)
__UNDEFINED__ CopSTASH_set(c,hv) (CopSTASH(c) ? HvNAME(CopSTASH(c)) : Nullch)
__UNDEFINED__ CopSTASHPV(c) (CopSTASHPV(c) ? HvNAME(CopSTASHPV(c)) : Nullch)
__UNDEFINED__ CopSTASH_eq(c,hv) (CopSTASH(c) == (hv))
#endif /* USE_ITHREADS */

#else

#endif /* USE_ITHREADS */

#endif [ VERSION >= 5.6.0 ]

#if defined(NEED_caller_cx) || defined(NEED_caller_cx_GLOBAL)

static I32 DPPP_dopoptosub_at(const PERL_CONTEXT *cxstk, I32 startingblock)
{
    I32 i;

    for (i = startingblock; i >= 0; i--) {
        register const PERL_CONTEXT * const cx = &cxstk[i];
        switch (CxTYPE(cx)) {
            default:

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continue;
case CXt_EVAL:
case CXt_SUB:
case CXt_FORMAT:
    return i;
}
}
return i;
}
#endif

#if { NEED caller_cx }

const PERL_CONTEXT *
caller_cx(pTHX_ I32 count, const PERL_CONTEXT **dbcxp)
{
    register I32 cxix = DPPP_dopoptosub_at(cxstack, cxstack_ix);
    register const PERL_CONTEXT *cx;
    register const PERL_CONTEXT *ccstack = cxstack;
    const PERL_SI *top_si = PL_curstackinfo;

    for (;;) {
        /* we may be in a higher stacklevel, so dig down deeper */
        while (cxix < 0 && top_si->si_type != PERLSI_MAIN) {
            top_si = top_si->si_prev;
            ccstack = top_si->si_cxstack;
            cxix = DPPP_dopoptosub_at(ccstack, top_si->si_cxix);
        }
        if (cxix < 0)
            return NULL;
        /* caller() should not report the automatic calls to &DB::sub */
        if (PL_DBsub && GvCV(PL_DBsub) && cxix >= 0 &&
            ccstack[cxix].blk_sub.cv == GvCV(PL_DBsub))
            count++;
        if (!count--)
            break;
        cxix = DPPP_dopoptosub_at(ccstack, cxix - 1);
    }

    cx = &ccstack[cxix];
    if (dbcxp) *dbcxp = cx;

    if (CxTYPE(cx) == CXt_SUB || CxTYPE(cx) == CXt_FORMAT) {
        const I32 dbcxix = DPPP_dopoptosub_at(ccstack, cxix - 1);
        /* We expect that ccstack[dbcxix] is CXt_SUB, anyway, the
         * field below is defined for any cx. */
        /* caller() should not report the automatic calls to &DB::sub */
        if (PL_DBsub && GvCV(PL_DBsub) &&
            dbcxix >= 0 &&
            ccstack[dbcxix].blk_sub.cv == GvCV(PL_DBsub))
    }
}
cx = &ccstack[dbcxix];
}

return cx;
}

#endif
#endif /* caller_cx */
#endif /* 5.6.0 */

=xsin
#define NEED_caller_cx

=xsubs

char *
CopSTASHPV()
CODE:
    RETVAL = CopSTASHPV(PL_curcop);
OUTPUT:
    RETVAL

cchar *
CopFILE()
CODE:
    RETVAL = CopFILE(PL_curcop);
OUTPUT:
    RETVAL

#if { VERSION >= 5.6.0 }

void
caller_cx(level)
    I32 level
PREINIT:
    const PERL_CONTEXT *cx, *dbcx;
    const char *pv;
    const GV *gv;
PPCODE:
    cx = caller_cx(level, &dbcx);
    if (!cx) XSRETURN_EMPTY;

    EXTEND(SP, 4);

    pv = CopSTASHPV(cx->blk_oldcop);
    ST(0) = pv ? sv_2mortal(newSVpv(pv, 0)) : &PL_sv_undef;
    gv = CvGV(cx->blk_sub.cv);

    /* Rest of the function code... */
#endif
ST(1) = isGV(gv) ? sv_2mortal(newSVpv(GvNAME(gv), 0)) : &PL_sv_undef;

pv = CopSTASHPV(dbcx->blk_oldcop);
ST(2) = pv ? sv_2mortal(newSVpv(pv, 0)) : &PL_sv_undef;

gv = CvGV(dbcx->blk_sub.cv);
ST(3) = isGV(gv) ? sv_2mortal(newSVpv(GvNAME(gv), 0)) : &PL_sv_undef;

XSRETURN(4);

#endif /* 5.6.0 */

e=tests plan => 28

my $package;
{
  package MyPackage;
  $package = &Devel::PPPort::CopSTASHPV();
}
print "# $package\n";
ok($package, "MyPackage");

my $file = &Devel::PPPort::CopFILE();
print "# $file\n";
ok($file =~ /cop/i);

BEGIN {
  if ($] < 5.006000) {
    # Skip
    for (1..28) {
      ok(1, 1);
    }
    exit;
  }
}

BEGIN {
  package DB;
  no strict "refs";
  local $^P = 1;
  sub sub { &$DB::sub }
}

{ package One; sub one { Devel::PPPort::caller_cx($_[0]) } }
{
  package Two;
  sub two { One::one(@_) }
  sub dbtwo {
    BEGIN { $^P = 1 }
}
One::one(@_);
BEGIN { $^P = 0 }
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1.1820 binutils 2.23.52.0.1 55.el7

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++++++++++++++++

Dean Elsner wrote the original gas for vax.  [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors
Open Source Used In APIC-SE-BATMAN 2.1.1d  25866

(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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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:

    a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library
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Appendix: How to Apply These Terms to Your New Libraries

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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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"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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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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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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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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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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* Encodes and decodes to and from Base64 notation.

* Homepage: [http://iharder.net/base64](http://iharder.net/base64).

* Example:

```java
String encoded = Base64.encode( myByteArray );
byte[] myByteArray = Base64.decode( encoded );
```

* The `options` parameter, which appears in a few places, is used to pass several pieces of information to the encoder.
* In the "higher level" methods such as `encodeBytes( bytes, options )` the options parameter can be used to indicate such things
  * as first gzipping the bytes before encoding them, not inserting linefeeds, and encoding using the URL-safe and Ordered dialects.

* Note, according to [RFC3548](http://www.faqs.org/rfcs/rfc3548.html), Section 2.1, implementations should not add line feeds unless explicitly told to do so. I've got Base64 set to this behavior now, although earlier versions broke lines by default.

* The constants defined in Base64 can be OR-ed together to combine options, so you might make a call like this:

```java
String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DO_BREAK_LINES );
```

* to compress the data before encoding it and then making the output have newline characters.

* Also...

```java
String encoded = Base64.encodeBytes( crazyString.getBytes() );
```
<ul>
<li>v2.3.7 - Fixed subtle bug when base 64 input stream contained the value 01111111, which is an invalid base
64 character</li>
<li>but should not throw an ArrayIndexOutOfBoundsException either. Led to discovery of mishandling (or potential<br>for better<br>handling) of other bad input characters. You should now get an IOException if you try decoding something that<br>has bad<br>characters in it.</li>
<li>v2.3.6 - Fixed bug when breaking lines and the final byte of the encoded string ended in the last column; the<br>buffer was<br>not properly shrunk and contained an extra (null) byte that made it into the string.</li>
<li>v2.3.5 - Fixed bug in {@link #encodeFromFile} where estimated buffer size was wrong for files of size 31, 34,<br>and 37</li>
<li>bytes.</li>
<li>v2.3.4 - Fixed bug when working with gzipped streams whereby flushing the Base64.OutputStream closed the<br>Base64 encoding<br>(by padding with equals signs) too soon. Also added an option to suppress the automatic decoding of gzipped<br>streams. Also<br>added experimental support for specifying a class loader when using the<br>{@link #decodeToObject(String, int, ClassLoader)} method.</li>
<li>v2.3.3 - Changed default char encoding to US-ASCII which reduces the internal Java footprint with its<br>CharEncoders and so<br>forth. Fixed some javadocs that were inconsistent. Removed imports and specified things like java.io.IOException<br>explicitly</li>
<li:inline.</li>
<li>v2.3.2 - Reduced memory footprint! Finally refined the "guessing" of how big the final encoded data will be so that<br>the<br>code doesn't have to create two output arrays: an oversized initial one and then a final, exact-sized one. Big win<br>when using<br>the {@link #encodeBytesToBytes(byte[])} family of methods (and not using the gzip options which uses a<br>different mechanism</li>
<li>with streams and stuff).</li>
<li>v2.3.1 - Added {@link #encodeBytesToBytes(byte[], int, int, int)} and some similar helper methods to be<br>more efficient</li>
<li>with memory by not returning a String but just a byte array.</li>
<li>v2.3 - <strong>This is not a drop-in replacement!</strong> This is two years of comments and bug fixes queued up and<br>finally executed. Thanks to everyone who sent me stuff, and I'm sorry I wasn't able to distribute your fixes to everyone<br>else. Much bad coding was cleaned up including throwing exceptions where necessary instead of returning null values or<br>something similar. Here are some changes that may affect you:</li>
</ul>
* Does not break lines, by default. This is to keep in compliance with RFC3548.
* Throws exceptions instead of returning null values. Because some operations (especially those that may permit
  * the GZIP option) use IO streams, there is a possibility of an java.io.IOException being thrown. After some
discussion and
  * thought, I've changed the behavior of the methods to throw java.io.IOExceptions rather than return null if ever
there's an
  * error. I think this is more appropriate, though it will require some changes to your code. Sorry, it should have been
done
  * this way to begin with.
* Removed all references to System.out, System.err, and the like. Shame on me. All I can say is sorry they were
  * ever there.
* Throws NullPointerExceptions and IllegalArgumentExceptions as needed such as when passed
  * arrays are null or
  * offsets are invalid.
* Cleaned up as much javadoc as I could to avoid any javadoc warnings. This was especially annoying before
  * people who
  * were thorough in their own projects and then had gobs of javadoc warnings on this file.
* v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug when using very small files
  * (~&lt; 40 bytes).
* v2.2 - Added some helper methods for encoding/decoding directly from one file to the next. Also added a
main() method to
  * support command line encoding/decoding from one file to the next. Also added these Base64 dialects:
* The default is RFC3548 format.
* Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates URL and file name
  * friendly format as described in
* Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates URL and file name
  * friendly format that preserves
  * lexical ordering as described in http://www.faqs.org/qa/rfcc-1940.html
* Special thanks to Jim Kellerman at http://www.powerset.com/ for contributing the new
  * Base64 dialects.
* v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods
  * for reading and
  * writing to and from files.
* v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like
  * EBCDIC).
* v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.
* v2.0 - I got rid of methods that used booleans to set options. Now everything is more consolidated and cleaner.
The code
  * now detects when data that's being decoded is gzip-compressed and will decompress it automatically. Generally
* cleaner. You'll probably have to change some method calls that you were making to support the new options format ( <tt>int</tt>s that you "OR" together).</li>
* <li>v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using <tt>decode( String s, boolean gzipCompressed )</tt>.</li>
* Added the ability to “suspend” encoding in the Output Stream so you can turn on and off the encoding if you need to embed
* base64 data in an otherwise "normal" stream (like an XML file).</li>
* <li>v1.5 - Output stream passes on flush() command but doesn't do anything itself. This helps when using GZIP streams. Added
* the ability to GZip-compress objects before encoding them.</li>
* <li>v1.4 - Added helper methods to read/write files.</li>
* <li>v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.</li>
* <li>v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream where last buffer being read, if not
* completely full, was not returned.</li>
* <li>v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.</li>
* <li>v1.3.3 - Fixed I/O streams which were totally messed up.</li>
* <li> </li>
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* with plenty of well-wishing instead! Please visit <a href="http://iharder.net/base64">http://iharder.net/base64</a>
* periodically to check for updates or to contribute improvements.
* 
* @author Robert Harder
* @author rob@iharder.net
* @version 2.3.7
*/

Found in path(s):
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/websockets/core/protocol/version07/Base64.java
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/**
 * An extension to {@link AbstractConfidentialityHandler} that uses the Host header from the incoming message
 * and specifies the confidential address by just switching the port.
 *
 * @author <a href="mailto:darran.lofthouse@jboss.com">Darran Lofthouse</a>
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/
jar/io/undertow/protocols/ssl/SNISSLEXplorer.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-
jar/io/undertow/protocols/ssl/SNISSLContextSpi.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-
jar/io/undertow/protocols/ssl/SNISSLContext.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-
jar/io/undertow/protocols/ssl/SNISSLContext.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-
jar/io/undertow/protocols/ssl/SNISSLContext.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-
jar/io/undertow/protocols/alpn/ALPNEngineManager.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-
jar/io/undertow/protocols/sasl/SSTLSSLPolicy.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-
jar/io/undertow/protocols/alpn/DefaultAlpnEngineManager.java
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jar/io/undertow/server/handlers/cache/DirectBufferCache.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-
jar/io/undertow/protocols/alpn/OpenSSLAlpnProvider.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-
jar/io/undertow/attribute/ResponseCookieAttribute.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-
jar/io/undertow/security/impl/SecurityContextImpl.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-
jar/io/undertow/attribute/RequestPathAttribute.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-
jar/io/undertow/websockets/core/WebSocketLogger.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-
jar/io/undertow/util/PathTemplate.java
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jar/io/undertow/server/handlers/encoding/ContentEncodingRepository.java

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* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/session/SslSessionConfig.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/UndertowLogger.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/server/handlers/NameVirtualHostHandler.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/attribute/IdentUsernameAttribute.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/security/handlers/AuthenticationCallHandler.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/websockets/core/WebSocketFrameType.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/security/idm/Credential.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/websockets/client/WebSocketClientNegotiation.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/server/handlers/proxy/SimpleProxyClientProvider.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/util/PathTemplateMatcher.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/predicate/PathTemplatePredicate.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/conduits/WriteTimeoutStreamSinkConduit.java

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* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/UndertowOptions.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-util/DateUtils.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-util/Session.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-conduits/GzipStreamSourceConduit.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-conduits/DebuggingStreamSinkConduit.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-websockets/spi/AsyncWebSocketHttpServerExchange.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-websockets/client/WebSocketClientHandshake.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-server/handlers/HttpContinueReadHandler.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-server/handlers/RequestBufferingHandler.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-util/FlexBase64.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-server/handlers/builder/HandlerBuilder.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-client/http/HttpClientExchange.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-client/http/ClientFixedLengthStreamSinkConduit.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-server/handlers/PredicateContextHandler.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow/io/UndertowInputStream.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow/attribute/ResponseTimeAttribute.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-websockets/core/protocol/version07/WebSocket07TextFrameSourceChannel.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-server/handlers/SecureCookieHandler.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-server/handlers/CanonicalPathHandler.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow/security/handlers/AuthenticationConstraintHandler.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-client/http/HttpClientExchange.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-predicate/SecurePredicate.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow/protocols/http2/Http2PingStreamSourceChannel.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/server/session/SessionCookieConfig.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/attribute/ResolvedPathAttribute.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/protocols/ssl/SslConduit.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/server/handlers/BlockingHandler.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/util/HeaderTokenParser.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/server/protocol/ParseTimeoutUpdater.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/server/handlers/MetricsHandler.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/server/handlers/proxy/ProxyClient.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/security/idm/DigestAlgorithm.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/server/handlers/SetAttributeHandler.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/protocols/alpn/JDK8HackAlpnProvider.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/util/Transfer.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/websockets/core/protocol/version07/WebSocket07BinaryFrameSinkChannel.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/websockets/core/protocol/version07/WebSocket07TextFrameSinkChannel.java
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* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/connector/ByteBufferPool.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/server/handlers/SSLHeaderHandler.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/util/FileUtils.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/protocols/http2/Http2DataStreamSinkChannel.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/server/handlers/encoding/ContentEncodingProvider.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/util/ChainedHandlerWrapper.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/util/ImmediatePooledByteBuffer.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/util/PooledObject.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/util/URLUtils.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/websockets/core/protocol/version07/WebSocket07PingFrameSourceChannel.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/conduits/AbstractFixedLengthStreamSinkConduit.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/conduits/ChunkReader.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/util/HttpString.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/util/BadRequestException.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/protocols/alpn/JDK9AlpnProvider.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/util/Headers.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow/security/api/NotificationReceiver.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/protocols/ajp/AjpUtils.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/util/ImmediateConduitFactory.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-websockets/core/protocol/version07/WebSocket07CloseFrameSinkChannel.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-websockets/core/protocol/version08/Hybi08Handshake.java
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* /opt/cola/permits/1102171875_1603488130.24/0/undertow-websockets/core/WebSocketUtilities.java
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* /opt/cola/permits/1102171875_1603488130.24/0/undertow/security/impl/AuthenticationInfoToken.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow/attribute/ExchangeAttributeBuilder.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow/attribute/RequestSchemeAttribute.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow/server/protocol/http/Http2SslSessionInfo.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow/server/handlers/ChannelUpgradeHandler.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow/security/handlers/CachedAuthenticatedSessionHandler.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow/attribute/ExchangeAttributeBuilder.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow/predicate/PredicateBuilder.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow/server/handlers/ChannelUpgradeHandler.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow/attribute/ExchangeAttribute.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow/security/handlers/CachedAuthenticatedSessionHandler.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow/attribute/ExchangeAttribute.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow/util/PipeliningExecutor.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/server/protocol/ajp/AjpServerConnection.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-websockets/core/function/ChannelFunction.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-server/session/SessionListener.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/predicate/Predicates.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/util/ETagUtils.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/websockets/core/protocol/version07/WebSocket07CloseFrameSourceChannel.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/client/ajp/AjpClientExchange.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/server/handlers/ResponseRateLimitingHandler.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/websockets/core/Handshake.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-websockets/core/protocol/Handshake.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-websockets/core/protocol/HeaderMap.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-websockets/core/protocol/QValueParser.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow/websockets/core/protocol/containsPredicate.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-websockets/core/protocol/ContainsPredicate.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-websockets/core/protocol/Predicate.java
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jar/io/undertow/server/handlers/LocalNameResolvingHandler.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-
jar/io/undertow/UndertowMessages.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-
jar/io/undertow/attribute/ResponseHeaderAttribute.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-
jar/io/undertow/server/handlers/proxy/mod_cluster/ModClusterController.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-
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* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-
jar/io/undertow/server/session/SessionConfig.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-
jar/io/undertow/io/BlockingReceiverImpl.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-
jar/io/undertow/util/Certificates.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-
jar/io/undertow/websockets/core/protocol/version13/Hybi13Handshake.java
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* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-
jar/io/undertow/client/ajp/AjpClientProvider.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-
jar/io/undertow/attribute/RelativePathAttribute.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-
jar/io/undertow/websockets/core/protocol/version07/Masker.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-
jar/io/undertow/attribute/QueryParameterAttribute.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-
jar/io/undertow/server/handlers/ConfiguredPushHandler.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-
jar/io/undertow/server/handlers/PathHandler.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-
jar/io/undertow/server/handlers/resource/RangeAwareResource.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-
jar/io/undertow/server/protocol/ajp/AjpReadListener.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-
jar/io/undertow/server/protocol/http/HttpContinue.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-
jar/io/undertow/server/protocol/ajp/AjpServerRequestConduit.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-
jar/io/undertow/client/http/HttpClientProvider.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-
jar/io/undertow/server/handlers/PredicateHandler.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-
jar/io/undertow/conduits/AbstractFramedStreamSinkConduit.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-
jar/io/undertow/protocols/http2/Http2PingParser.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-
jar/io/undertow/client/http/HttpClientProvider.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-
jar/io/undertow/server/handlers/PredicateHandler.java
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#
io.undertow.protocols.alpn.JDK8HackAlpnProvider
io.undertow.protocols.alpn.JettyAlpnProvider
io.undertow.protocols.alpn.JDK9AlpnProvider
io.undertow.protocols.alpn.OpenSSLAlpnProvider

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  * /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/server/handlers/proxy/ProxyConnectionPoolConfig.java
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*/
/**
 * Handler responsible for checking of confidentiality is required for the requested resource and if so rejecting the
 * request and redirecting to a secure address.
 * @author <a href="mailto:darran.lofthouse@jboss.com">Darran Lofthouse</a>
 */
/**
 * Use the HttpServerExchange supplied to check if this request is already 'sufficiently' confidential.
 * Here we say 'sufficiently' as sub-classes can override this and maybe even go so far as querying the actual
 * SSLSession.
 * @param exchange - The {@link HttpServerExchange} for the request being processed.
 * @return true if the request is 'sufficiently' confidential, false otherwise.
 */
/**
 * Use the HttpServerExchange to identify if confidentiality is required.
 * This method currently returns true for all requests, sub-classes can override this to provide a custom check.
 * TODO: we should deprecate this and just use a predicate to decide to execute the handler instead
 * @param exchange - The {@link HttpServerExchange} for the request being processed.
 * @return true if the request requires confidentiality, false otherwise.
 */
/**
 * All sub-classes are required to provide an implementation of this method, using the HttpServerExchange for the
 * current request return the address to use for a redirect should confidentiality be required and the request not be
 * confidential.
 * @param exchange - The {@link HttpServerExchange} for the request being processed.
 * @return The {@link URI} to redirect to.
 */

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 */

/**
 * Returns an array containing all of the elements in this deque, in
 * proper sequence (from first to last element).
 *
 * <p>The returned array will be "safe" in that no references to it are
 * maintained by this deque. (In other words, this method must allocate
 * a new array). The caller is thus free to modify the returned array.
 *
 * <p>This method acts as bridge between array-based and collection-based
 * APIs.
 *
 * @return an array containing all of the elements in this deque
 */

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* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/util/PortableConcurrentDirectDeque.java
* /opt/cola/permits/1102171875_1603488130.24/0/undertow-core-2-0-26-final-sources-jar/io/undertow/util/FastConcurrentDirectDeque.java
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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1.1839 mattetti-filebuffer v1.0.0

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===============

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### 1.1850 swagger-core 2.1.7

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Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.
It should serve as a pretty good example of how to get carried away. :-)
From spcecdt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: spcecdt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)
   id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcecdt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
   id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcecdt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcecdt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
"ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~spcecdt/
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
To: chet@po.cwru.edu
Subject: Re: ksh scripts
Message-ID: <9505092233.aa13001@deepthought.armory.com>

Sure. The canonical versions are available on ftp.armory.com; you might
want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:
} Subject: ksh scripts
} From odin.ins.cwru.edu!chet Tue May  9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
}   9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
} Read-Receipt-To: chet@po.CWRU.Edu
} MIME-Version: 1.0
} Content-Type: text/plain; charset=us-ascii
} Status: OR
}
} Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for
} the FSF.
}
} I picked up a tar file of ksh scripts you wrote from an anon FTP site
{ a while back. I'd like your permission to include modified versions
{ of some of them in the next major bash distribution (with proper credit
{ given, of course). Is it OK if I do that?
{ }
{ Chet Ramey
{ }
{ --
{ "The lyf so short, the craft so long to lerne." - Chaucer
{ }
{ Chet Ramey, Case Western Reserve University Internet: chet@po.CWRU.Edu
{ }-- End of excerpt from Chet Ramey

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1.1855 libcap-ng 0.7.9 2

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1.1863 xkeyboard-config 2.28 1.el8

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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_credential.c
lib/gssapi/mechglue/g_canonical_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_display_name.c
lib/gssapi/mechglue/g_display_status.c
lib/gssapi/mechglue/g_duplicate_name.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_credential.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_credential.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_release_buffer.c
lib/gssapi/mechglue/g_release_credential.c
lib/gssapi/mechglue/g_release_name.c
lib/gssapi/mechglue/g_release_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
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lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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   # Contributions to the urllib3 project

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  * 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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* SSL fingerprint and alternative hostname verification*
* Bugfixes in testsuite*

*Sune Kirkeby <mig@ibofoibi.dk>*
*Optional SNI-support for Python 2 via PyOpenSSL.*

*Marc Schlaich <marc.schlaich@gmail.com>*
*Various bugfixes and test improvements.*

*Bryce Boe <bbzbryce@gmail.com>*
*Correct six.moves conflict*
*Fixed pickle support of some exceptions*

*Boris Figovsky <boris.figovsky@ravellosystems.com>*
*Allowed to skip SSL hostname verification*

*Cory Benfield <https://lukasa.co.uk/about/>*
*Stream method for Response objects.*
*Return native strings in header values.*
*Generate 'Host' header when using proxies.*

*Jason Robinson <jaywink@basshero.org>*
*Add missing WrappedSocket.fileno method in PyOpenSSL*

*Audrius Butkevicius <audrius.butkevicius@elastichosts.com>*
*Fixed a race condition*

*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 <juanyc@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>
  * HttpHeadersDict 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 <graffatcolmimgov@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 <abacababadacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration
* Tomas Tomecek <ttomecek@redhat.com>
  Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  App Engine environment tests.
  Documentation re-write.

* John Krauss <https://github.com/talos>
  Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  Logging efficiency improvements, spelling fixes, Travis config.
* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl 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 Tziakos <mail@itziakos.gr>
  * Fix \`\`util.selectors._fileobj_to_fd\`\` to accept \`\`long\`\`.
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to \`\`contrib.securetransport\`\`

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add \`\`HTTPResponse.geturl\`\` method to provide \`\`urllib2.urlopen().geturl()\`\` behavior

* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
  * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
  * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
  * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
  * Remove Authorization header regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
  * Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
  * Remove a spurious TypeError from the exception chain inside HTTPConnectionPool._make_request(), also for BaseExceptions.

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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**LZMA decompressor**: 

src/lib/lzma/lzmadec.c

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1.1877 iptables 1.4.21-2+b1

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Metadata-Version: 2.1
Name: Jinja2
Version: 2.11.1
Summary: A very fast and expressive template engine.
Home-page: https://palletsprojects.com/p/jinja/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets
Maintainer-email: contact@palletsprojects.com
License: BSD-3-Clause
Project-URL: Code, https://github.com/pallets/jinja
Description: Jinja

=====

Jinja is a fast, expressive, extensible templating engine. Special
placeholders in the template allow writing code similar to Python
syntax. Then the template is passed data to render the final document.

It includes:
- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- I18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja's philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by restricting functionality too much.

Installing
----------

Install and update using `pip`:

.. code-block:: text

    $ pip install -U Jinja2


In A Nutshell
-------------

.. code-block:: jinja

    {% extends "base.html" %}
    {% block title %}Members{% endblock %}
    {% block content %}
    <ul>
    {% for user in users %}
    <li><a href="{{ user.url }}">{{ user.username }}</a></li>
    {% endfor %}
    </ul>
    {% endblock %}
Links
-----

- Website: https://palletsprojects.com/p/jinja/
- Documentation: https://jinja.palletsprojects.com/
- Releases: https://pypi.org/project/Jinja2/
- Code: https://github.com/pallets/jinja
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Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
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Classifier: Topic :: Text Processing :: Markup :: HTML
Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*

Description-Content-Type: text/x-rst
Provides-Extra: i18n

Found in path(s):
* /opt/cola/permits/1160880531_1620412710.41/0/jinja2-2-11-1-1-tar-gz/Jinja2-2.11.1/src/Jinja2.egg-info/PKG-INFO
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import io
import re
from setuptools import find_packages
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
    readme = f.read()
with io.open("src/jinja2/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r'__version__ = "(.*)"', f.read(), re.M).group(1)

setup(
    name="Jinja2",
    version=version,
    url="https://palletsprojects.com/p/jinja/",
    project_urls={
        "Documentation": "https://jinja.palletsprojects.com/",
        "Code": "https://github.com/pallets/jinja",
        "Issue tracker": "https://github.com/pallets/jinja/issues",
    },
    license="BSD-3-Clause",
    author="Armin Ronacher",
    author_email="armin.ronacher@active-4.com",
    maintainer="Pallets",
    maintainer_email="contact@palletsprojects.com",
    description="A very fast and expressive template engine.",
    long_description=readme,
    classifiers=[
        "Development Status :: 5 - Production/ Stable",
        "Environment :: Web Environment",
        "Intended Audience :: Developers",
        "License :: OSI Approved :: BSD License",
        "Operating System :: OS Independent",
        "Programming Language :: Python",
        "Programming Language :: Python :: 2",
        "Programming Language :: Python :: 2.7",
        "Programming Language :: Python :: 3",
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        "Programming Language :: Python :: 3.6",
        "Programming Language :: Python :: 3.7",
        "Programming Language :: Python :: 3.8",
        "Programming Language :: Python :: Implementation :: CPython",
        "Programming Language :: Python :: Implementation :: PyPy",
        "Topic :: Internet :: WWW/ HTTP :: Dynamic Content",
        "Topic :: Software Development :: Libraries :: Python Modules",
        "Topic :: Text Processing :: Markup :: HTML",
    ],
    packages=find_packages("src"),
    package_dir={"": "src"},
    include_package_data=True,
    python_requires">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*,",
    install_requires=["MarkupSafe>=0.23"],
    extras_require=["i18n": ["Babel">=0.8"]],
    entry_points={"babel.extractors": ["jinja2 = jinja2.ext:babel_extract[i18n]"]},
)
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* Response gzip and deflate encoding support
* Better unicode support for filepost using StringIO buffers

* btcoconnor <brian@btcoconnor.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

* Thomas Kluyver <thomas@kluyver.me.uk>
* Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
* Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
* IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
* Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
* Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
* Support for TLS SNI
* API unification of ssl_version/cert_reqs
* SSL fingerprint and alternative hostname verification
* Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
* Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
* Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
* Correct six.moves conflict
* Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
* Allowed to skip SSL hostname verification
* Cory Benfield <https://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* 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 <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 <javydb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>  
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
* Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alexis.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 Tziakos <mail@itziakos.gr>
  * Fix `util.selectors._fileobj_to_fd` to accept `long`.
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to `contrib.securetransport`

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add `HTTPResponse.geturl` method to provide `urllib2.urlopen().geturl()` behavior
* Bruce Merry <https://www.brucemerry.org.za>
* Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
* Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
* Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
* Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
* Remove Authorization header regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
* Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
* Remove a spurious TypeError from the exception chain inside
  HTTPConnectionPool._make_request(), also for BaseExceptions.

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]

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/**
 * A method-level constraint, that evaluates a script expression against the
 * annotated method or constructor. This constraint can be used to implement
 * validation routines that depend on several parameters of the annotated
 * executable.
 */

* Script expressions can be written in any scripting or expression language,
* for which a <a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a>
* ("Scripting for the Java<sup>TM</sup> Platform") compatible engine can be
* found on the classpath. To refer to a parameter within the scripting
* expression, use its name as obtained by the active
* [ @link java.validation.ParameterNameProvider ]. By default, [ @code arg0], [ @code arg1 ] etc.
* will be used as parameter names.

* The following listing shows an example using the JavaScript engine which
* comes with the JDK:
* 
* ```java
* {@code @ParameterScriptAssert(script = "arg0.before(arg1)", lang = "javascript")
* public void createEvent(Date start, Date end) { ... }
* }
* ```
* 
* Can be specified on any method or constructor.

* @author Gunnar Morling
*/

Found in path(s):
* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-
  jar/org/hibernate/validator/constraints/ParameterScriptAssert.java
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*/
/**
* Retrieves constraint related meta data for the parameters of the given
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*
* @param executable The executable of interest.
*
* @return A list with parameter meta data for the given executable.
*/

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* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-
jar/org/hibernate/validator/cfg/context/TypeConstraintMappingContext.java
* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-
jar/org/hibernate/validator/cfg/defs/NullDef.java
* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-
jar/org/hibernate/validator/cfg/defs/pl/package-info.java
* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-
jar/org/hibernate/validator/internal/constraintvalidators/bv/time/past/PastValidatorForLocalTime.java
* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-
jar/org/hibernate/validator/internal/engine/constraintvalidation/ClassBasedValidatorDescriptor.java
* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-
jar/org/hibernate/validator/internal/constraintvalidators/bv/time/pastorpresent/AbstractPastOrPresentInstantBasedValidator.java
* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-
jar/org/hibernate/validator/internal/metadata/core/MetaConstraints.java
* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-
jar/org/hibernate/validator/internal/constraintvalidators/bv/ScriptAssertContext.java
* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-
jar/org/hibernate/validator/internal/engine/groups/ValidationOrderGenerator.java
* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-
jar/org/hibernate/validator/internal/engine/path/PathImpl.java
* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-
jar/org/hibernate/validator/internal/engine/groups/Group.java
* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-
jar/org/hibernate/validator/path/package-info.java
* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-
jar/org/hibernate/validator/internal/metadata/descriptor/ConstraintDescriptorImpl.java
* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-
jar/org/hibernate/validator/internal/constraintvalidators/bv/notempty/NotEmptyValidatorForCollection.java
* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-
jar/org/hibernate/validator/internal/engine/valueextraction/ReadOnlySetPropertyValueExtractor.java
* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-
jar/org/hibernate/validator/internal/util/logging/formatter/ExecutableFormatter.java
* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-jar/org/hibernate-validator/validator/internal/constraintvalidators/bv/number/bound/MaxValidatorForLong.java
* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-jar/org/hibernate-validator/validator/internal/util/logging/formatter/CollectionOfClassesObjectFormatter.java
* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-jar/org/hibernate-validator/spi/cfg/ConstraintMappingContributor.java
* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-jar/org/hibernate.validator/internal/constraintvalidators/bv/number/bound/MaxValidatorForBigInteger.java
* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-jar/org/hibernate.validator/spi/group/package-info.java
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* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-jar/org/hibernate.validator/validator/internal/constraintvalidators/bv/number/bound/MinValidatorForNumber.java
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* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-jar/org/hibernate.validator/validator/constraints/CodePointLength.java
* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-jar/org/hibernate.validator/validator/internal/engine/resolver/TraverseAllTraversableResolver.java
* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-jar/org/hibernate.validator/validator/spi/group/package-info.java
* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-jar/org/hibernate.validator/validator/constraints/br/CPF.java
* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-jar/org/hibernate.validator/validator/constraints/br/CPF.java
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* /opt/cola/permissions/1110675267_1606843789.2/0/hibernate-validator-6.0.17-final-sources-4-
  jar/org/hibernate/validation/internal/constraint validators/bv/notempty/NotEmptyValidatorForArraysOfFloat.java
* /opt/cola/permissions/1110675267_1606843789.2/0/hibernate-validator-6.0.17-final-sources-4-
  jar/org/hibernate/validation/conf/defs/LuhnCheckDef.java
* /opt/cola/permissions/1110675267_1606843789.2/0/hibernate-validator-6.0.17-final-sources-4-
  jar/org/hibernate/validation/conf/defs/NotNullDef.java
* /opt/cola/permissions/1110675267_1606843789.2/0/hibernate-validator-6.0.17-final-sources-4-
  jar/org/hibernate/validation/spi/resourceloading/ResourceBundleLocator.java
* /opt/cola/permissions/1110675267_1606843789.2/0/hibernate-validator-6.0.17-final-sources-4-
  jar/org/hibernate/validation/conf/defs/DefaultPackageStaxBuilder.java
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  jar/org/hibernate/validation/conf/defs/Version.java
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* /opt/cola/permits/110675267_1606843789.2/0/hibernate-validator-6.0.17-final-sources-4-jar/org/hibernate/validator/config/defs/bv/CNPJDef.java
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* /opt/cola/permits/110675267_1606843789.2/0/hibernate-validator-6.0.17-final-sources-4-
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* /opt/cola/permits/110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-jar/org/hibernate/validator/internal/util/privilegedactions/GetDeclaredMethodHandle.java
* /opt/cola/permits/110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-jar/org/hibernate/validator/cfg/context/PropertyTarget.java
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* /opt/cola/permits/110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/sign/NegativeOrZeroValidatorForInteger.java
* /opt/cola/permits/110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-jar/org/hibernate/validator/internal/constraintvalidators/bv/size/SizeValidatorForMap.java
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1.1908 sysv-init 2.96-2.1ubuntu1

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl
These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.1913 fdisk 2.34.0

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1.1919 json-smart 2.3

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- 'Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-
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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>
This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 1, or (at your option) any later version.

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. See the GNU General Public License for more details.

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

   Gnomovision version 69, Copyright (C) 19xx name of author
   Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
   This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here a sample; alter the names:

   Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (a program to direct compilers to make passes at assemblers) written by James Hacker.

   <signature of Ty Coon>, 1 April 1989
   Ty Coon, President of Vice

That's all there is to it!

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b) use the modified Package only within your corporation or organization.

c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

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b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) accompany any non-standard executables with their corresponding Standard Version executables, giving the non-standard executables non-standard names, and clearly documenting the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

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The End

#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so that tests still pass for people intentionally working on older versions:
if ($opt eq '--now') {
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
sub readme_year
# returns the latest copyright year from the top-level README file
{
  open my $readme, '<', '../README' or die "Opening README failed: $!";

  # The copyright message is the first paragraph:
  local $/ = "";
  my $copyright_msg = <$readme>;

  my ($year) = $copyright_msg =~ /.*(\d{4,})/s
    or die "Year not found in README copyright message '$copyright_msg'";

  $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
  my $output = runperl switches => ['-v'];
  my ($year) = $output =~ /copyright 1987\s+\b(\d{4,})\b/i
    or die "Copyright statement not found in perl -v output '$output'";

  $year;
}

1.1933 perl-cpan-meta-yaml 0.018-397.el8
1.1933.1 Available under license:
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that you may choose to grant warranty protection to some or all third parties, at your option).

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the simplest and most usual way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this General Public License.

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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.
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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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@item
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
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be optional: if the application does not supply it, the square
root function must still compute square roots.)
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Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect
transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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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
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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You should also get your employer (if you work as a programmer) or your
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necessary. Here is a sample; alter the names:

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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

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When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating
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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1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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1.1937 joni 2.1.6

1.1938 lucene-queries 7.7.0
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The snowball stopword lists in
   analysis/common/src/resources/org/apache/lucene/analysis/snowball
were developed by Martin Porter and Richard Boulton.
The full snowball package is available from
   http://snowball.tartarus.org/

The KStem stemmer in
   analysis/common/src/org/apache/lucene/analysis/en
was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst)
under the BSD-license.

The Arabic, Persian, Romanian, Bulgarian, Hindi and Bengali analyzers (common) come with a default
stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:
   analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
   analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
   analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
   analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
   analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
   analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt

The German, Spanish, Finnish, French, Hungarian, Italian, Portuguese, Russian and Swedish light stemmers
(common) are based on BSD-licensed reference implementations created by Jacques Savoy and
Ljiljana Dolamic. These files reside in:
   analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
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   analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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by the Egothor project http://egothor.sf.net/, created by Leo Galambos, Martin Kvapil,
and Edmond Nolan.
The Polish analyzer (stempel) comes with a default stopword list that is BSD-licensed created by the Carrot2 project. The file resides in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt. See http://project.carrot2.org/license.html.

The SmartChineseAnalyzer source code (smartcn) was provided by Xiaoping Gao and copyright 2009 by www.imdict.net.

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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Protocol Buffers for Go with Gadgets

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Go support for Protocol Buffers - Google's data interchange format

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"
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1.1959 shadow-utils 4.6-8.el7_9.0atomix1

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  <li>TU-Darmstadt, Computer Science Department, RBG, for the initial lightweight client side TLS implementation, which is based on MicroTLS and for help with qTESLA</li>
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Micro Focus - additional support towards further developing the TLS/DTLS API and the BCJSSE provider.

People

Tito Pena &lt;Fortunato.Pena@AdNovum.CH&gt; - initial RC5 implementation

Michael Lee &lt;yfl@mira.net&gt; - initial RC6 implementation, MD2 implementation

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Jonathan Knudsen &lt;jonathan@LearningPatterns.com&gt; - porting information and restrictions when using the lightweight library with the MIDP environment.

Markus Niedermann &lt;markus.niedermann@softwired-inc.com&gt; - porting information and restrictions when using the lightweight library with the MIDP environment.

Mike Benham &lt;moxie@thoughtcrime.org&gt; - detection and fixing of an incorrect weak key in the DES key generation support classes. Suggestions for simplifying DESedeParameter objects. Optimisations for the Blowfish engine and BufferedBlockCipher class.

Soren Hilmer &lt;hilmer@mail.tele.dk&gt; - initial implementation of netscape certificate request classes.

Uwe Guenther &lt;uwe@cesc.de&gt; - detection and fixing of 3 incorrect semi-weak keys in the DES key
Markus Bradtke &lt;mab@informatik.uni-kiel.de&gt; - fixing of a logic error in the JDKKeyStore class.

Waclaw Sierek &lt;waclaw.sierek@tpg.pl&gt; - fix to setOddParity in the DESParameter class. Assistance with adding ordering to X509 names for certificate generation, proper processing of byte strings in the ASN1 package, further simplifications and additional classes to improve pkcs7 support, bug fixes in CertPath API.

Ly-Na Phu &lt;lyna.phu@init-consulting.de&gt; - assistance in the addition of ISO 9796-1 padding.

Stefan K&ouml;psell &lt;sk13@mail.inf.tu-dresden.de&gt; - making the jdk 1.1 version of the collections API available. For further details see http://sourceforge.net/projects/jcf/.

Carmen Bastiaans &lt;cbastiaa@microbits.com.au&gt; - fixing the improper null pointer problem in the setting of certificates in the PKCS12 key store.

Tomas Gustavsson &lt;tomasm@primekey.se&gt; - initial implementation of the AuthorityInformationAccess, SubjectKeyIdentifier, AuthorityKeyIdentifier, CRLNumber, CRLReason, CertificatePolicies, V2TBSCertListGenerator, and X509V2CRLGenerator classes in the ASN.1 library. Additions to GeneralName class, other bug fixes in the X.509 package. Initial implementation of the CertificationRequest classes. getRevocationReason() patch for OCSP. Patch to SemanticsInformation to prevent ClassCastException.

Eugen Kuleshov &lt;euxx@#064;hotmail.com&gt; - optimisations for Blowfish, assistance with PKCS12/keytool interoperability.

Megan Woods &lt;meganwoods@#064;sekurafille.com&gt; - initial implementation of ECIES.

Christian Geuer-Pollmann &lt;geuerp@#064;apache.org&gt; - adding IV's to the AESWrap implementations. Initial implementation of DESedeWrap.

Michael M&amp;#252;hle &lt;michael@#064;mouling.de&gt; - contributing the initial CertPath implementation and compatibility classes, fixing provider bug in JDK 1.1 java.security.cert.CertificateFactory compatibility class.

Michael Mansell &lt;me@#064;michaelmansell.com&gt; - fixing the parsing of the empty DER set in the ASN.1 library.

Eike Recker &lt;eike.recker@#064;gmx.de&gt; - fixing misspelling of provider reference for RSA/1 and RSA/2.

Chris Southern &lt;CSouthern@#064;baltimore.com&gt; - fixing misuse of specified provider in the PKCS10 certification request class.

Sidney Markowitz &lt;sidney@#064;sidney.com&gt; - fixing null pointed exception on unknown OID in X509Name class, initial implementation of the three AES engines.

Chris Kerr &lt;ckerr@#064;filonet.ca&gt; - initial implementation of the cms, asn1.cms, and the mail/smime packages, assistance in simplifying the ASN.1 package, miscellaneous other optimisations, NIST CertPath certification test, PKIXPolicyNode class, CertPath subtree validation and policy tree construction. We also wish to acknowledge the generosity of Filonet Corporation for allowing Chris to make the initial cms and mail/smime packages available to us.

Mike Bean &lt;mbean@#064;lucentradius.com&gt; - fixing the fall through bug in the IV algorithm parameters class.

Martin Petraschek &lt;e9526225@#064;student.tuwien.ac.at&gt; - fixing ASN1 tagging so tag values up to 30 are now supported.
Jess Garms &lt;jgarms&#064;yahoo.com&gt; - fixing 112/168 key size bug for DESede key generation.

Mike Bremford &lt;mike&#064;big.faceless.org&gt; - contributing the initial PKCS7 implementation.

Shankar Srinivasan &lt;sr002&#064;yahoo.com&gt; - S/Mime interoperability testing and debugging.

Stef Hoeben &lt;ilsestef&#064;skynet.be&gt; - adding Montgomery multiplication to the BigInteger class.

Klaudiusz Ciosk &lt;kciosk&#064;max.com.pl&gt; - improving the compatibility of the SMIME package with the Sun JCE.

Thomas Houtekier &lt;Thomas.Houtekier&#064;tetrade.net&gt; - S/Mime testing and debugging. Interoperability with Biztalk.

Don Hillsberry &lt;hillsber&#064;dialcorp.com&gt; - S/Mime testing and debugging.

Kazuo Furuya &lt;kfuruya&#064;infoteria.co.jp&gt; - fixing root certificate chaining bug in PKCS12 key store.

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Joel Hockey &lt;joel.hockey&#064;qcipayments.com&gt; - initial work on the openSSL PEM processing.

John Steenbruggen &lt;JohnS&#064;geotrust.com&gt; - fixing CertificationRequestInfo to handle cert request info objects without attribute blocks.

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John Serock &lt;jserock&#064;hotmail.com&gt; - fixing null pointer exception in constructor for ExtendedKeyUsage. Fixing of base OID bug in KeyPurposeId.

Sascha Weinreuter &lt;Sascha.Weinreuter&#064;cit.de&gt; - fixed SMIME saveChanges() bug.

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Tim Sakach &lt;tsakach&#064;certivo.net&gt; - SMIME v2 compatibility patches.

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Sebastian Clau&szlig; &lt;sc2&#064;inf.tu-dresden.de&gt; - adding randomness setting to the certificate and CRL generators.

Nicolas Bielza &lt;nicolas.bielza&#064;alligacom.com&gt; - isolating the tagging bug in the ASN.1 library that was misrepresenting some ASN.1 constructed data types. Contributions to the streaming S/MIME classes.

Casey Marshall &lt;rsdio&#064;metastatic.org&gt; - spotting the slow down in Diffie-Hellman key generation.

Rick Zeldes &lt;rick.zeldes&#064;eds.com&gt; - initial code for CMS/SMIME CompressedData.

Jarek Gawor &lt;gawor&#064;mcs.anl.gov&gt; - patch to SMIMEGenerator for preventing class cast exceptions with BodyParts containing Multipart objects.

Brett Neumeier &lt;brett&#064;rnd.cx&gt; - patch to OriginatorIdentifierOrKey object, improvements to encoders package, introduction of UrlBase64.

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J&ouml;rn von Kattch&eacute;e &lt;J.Kattchee&#064;seeburger.de&gt; - patch to SMIMEGenerator for preventing class cast exceptions with BodyParts containing Multipart objects.

Matteo Artuso &lt;matartuso&#064;libero.it&gt; - picking up the possible overread in ASN1InputStream.

Julian Morrison &lt;julian&#064;extropy.demon.co.uk&gt; - spotting the slow down in Diffie-Hellman key generation.

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<li>J&ouml;rn Schwarze &lt;JSchwarze&#064;ulc.de&gt; - Locale fix for the clean room JCE.</li>
<li>Bryan Lovquist &lt;bkl&#064;cps.com.au&gt; - Other provider compatibility fixes for CMS signing.</li>
<li>Artem Portnoy &lt;Artem_Portnoy&#064;ibi.com&gt; - generalisations for CMSProcessableBodyPart in S/MIME. Header fix for mime messages.</li>
<li>Michael H&auml;usler &lt;haeusler&#064;ponton-consulting.de&gt; - missing OID update for SHA1 with RSA Signature.</li>
<li>Johann Seland &lt;johans&#064;netfonds.no&gt; - general toString for BigInteger class.</li>
<li>Johannes Nicolai &lt;johannes.nicolai&#064;064novosec.com&gt; - further enhancements to OCSP response generation, fix to CertificateID issuer.</li>
<li>Marc Doberva &lt;marc.doberva&#064;064ilex-si.com&gt; - help in isolating the JSSE/BC RSA key issue.</li>
<li>Jan Dvorak &lt;jan.dvorak&#064;064mathan.cz&gt; - initial implementation of the light weight Null block cipher.</li>
<li>Joe Cohen &lt;jcohen&#064;forumsys.com&gt; - converting the ArrayOutOfBoundsException in DERInputStream into what it should have been.</li>
<li>Chris Long &lt;aclong&#064;ece.cmu.edu&gt; - adding public key decoding to PEMReader.</li>
<li>Hes Siemelink &lt;hes&#064;064izecom.com&gt; - findIssuer fix for CertPathBuilder, toMimeMessage converter for Mail API, getSize() fix for zero length messages in SMIMEMessage.</li>
<li>Stefan Puiu &lt;stefanpuiuro&#064;yahoo.com&gt; - initial implementation V3 policy mapping, policy qualifier objects in ASN.1 X.509 package.</li>
<li>Marc Dvorak &lt;m_dvorak&#064;cryptotech.com.pl&gt; - patch to DERMPString.equals() function in X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator, ReadOnceInputStream testing utility in MIME tests.</li>
<li>Michal Dvorak &lt;M_Dvorak&#064;064kb.cz&gt; - getNextUpdate patch for OCSP SingleResp.</li>
<li>Antoon Bosselaers &lt;Antoon.Bosselaers&#064;esat.kuleuven.ac.be&gt; - help with RipeMD320 implementation.</li>
<li>Peter Sylvester &lt;Peter.Sylvester&#064;edelweb.fr&gt; - improvements to the ASN.1 BasicConstraints object.</li>
<li>Antoon Bosselaers &lt;Antoon.Bosselaers&#064;064esat.kuleuven.ac.be&gt; - help with RipeMD320 implementation.</li>
<li>Stefan Puiu &lt;stefanpuiuro&#064;yahoo.com&gt; - initial implementation V3 policy mapping, policy qualifier objects in ASN.1 X.509 package.</li>
<li>Ian Haywood &lt;ian&#064;haywood.bpa.nu&gt; - addition of getSignatureType to PKPSignature.</li>
<li>justin Kolb &lt;jkolb&#064;064pristx.com&gt; - patch to DSA signature generation in OpenPGP. Fix for the unexpected "Unexpected end of ZLIB input stream" exception.</li>
<li>Jiri Urbanec &lt;jiri.urbanec&#064;064logicacmg.com&gt; - patch to fix defect in DERMPString.equals() function in X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator, ReadOnceInputStream testing utility in MIME tests.</li>
<li>Ralf Hauser &lt;ralfhauser&#064;064gmx.ch&gt; - patch to exception handling in PublicKeyRing, PEMReader, 1.4 build script, X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator, ReadOnceInputStream testing utility in MIME tests.</li>
<li>Michal Dvorak &lt;m_dvorak&#064;cryptotech.com.pl&gt; - patch to DERMPString.equals() function in X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator, ReadOnceInputStream testing utility in MIME tests.</li>
<li>Mariusz Bandola &lt;mariusz.bandola&#064;064cryptotech.com.pl&gt; - patch to DERGeneralizedTime. Compliance patch for OCSP TBSRequest class. Patch to X509Name for delaing with general objects in sequences.</li>
<li>Brien Oberstein &lt;brien.oberstein&#064;transacttools.net&gt; - patch to S2K algorithm in PGP, initial PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUtility.</li>
<li>Andrew Thornton &lt;andrew&#064;064carnet.cam.ac.uk&gt; - patch to RSA PUBLIC KEY in PEMReader.</li>
<li>Antoon Bosselaers &lt;Antoon.Bosselaers&#064;064esat.kuleuven.ac.be&gt; - help with RipeMD320 implementation.</li>
initial implementation of DERGeneralString, addition of settable signed object info to CMS\SignedDataGenerator, patch to DH key agreement.</li>
<li>W.R. Dittmer &lt;wdittmer@#064cs.vu.nl&gt; - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPSecretKey to fix nullpointer exception.</li>
<li>Perez Paz Luis Alberto &lt;laperez@#064banxico.org.mx&gt; - patch to use of BitString in X.500 name.</li>
<li>James Wright &lt;James_Wright@#064harte-hanks.com&gt; - patches for dealing with "odd" ArmoredInputStreams.</li>
<li>Jim Ford &lt;jim@#064muirford.com&gt; - patch to PGPSecretKey to avoid null pointer exception on encoding secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for newly created v4 signatures.</li>
<li>Michael Hausler &lt;haeusler@#064ponton-consulting.de&gt; - extra aliases for provider.</li>
<li>Sai Pullabhootla &lt;psai@#064linoma.com&gt; - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.</li>
<li>Joseph Miller &lt;joseph@#064digiweb.net.nz&gt; - addition of ZeroBytePadding.</li>
<li>Lars &lt;xyz@#064sagemenmark.dk&gt; - patch to explicit padded mode for CBC block cipher MAC.</li>
<li>Jeroen van Vianen &lt;jeroen@#064vanvianen.nl&gt; - the Signed and Encrypted mail example.</li>
<li>Jun Sun &lt;JSun@#064diversinet.com&gt; - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.</li>
<li>Petr Dukem &lt;pdukem@#064email.cz&gt; - patch to CMS\SignedDataGenerator to allow it to work with PKCS11 providers.</li>
<li>Filipe Silva &lt;filipe.silva@#064wedoconsulting.com&gt; - patch to fix overread issue in BCPGInputStream.</li>
<li>Alpesh Parmar &lt;alps@#064linuxmail.org&gt; - patch for class cast problem in PGPPublicKey.getSignatures().</li>
<li>Jay Gengelbach &lt;jgengelbach@#064webmethods.com&gt; - patch to fix isSigningKey in PGPSecretKey class, patch to hashedPackets in PGP signatureGenerator, initial cut for indefinite length output.</li>
<li>Doug &lt;doug@#064tigerprivacy.com&gt; - public key ring patches for ElGamal Signatures, problem key ring data.</li>
<li>Matthew Mundy &lt;mmundy1@#064umbc.edu&gt; - infinite loop prevention patch to PKCSS2ParametersGenerator.</li>
<li>Tom Cargill &lt;targill@#064proicon.com&gt; - spelling patch in provider.</li>
<li>Breitenstrom Christian &lt;C.Breitenstrom@#064t-systems.com&gt; - compatibility patch to SignaturePacket, DetachedSignatureProcessor.</li>
<li>Zanotti Mirko &lt;zanotti@#064cad.it&gt; - patch to ordered equality test for X509Name.</li>
<li>Nicola Scendonzi &lt;nscendonzi@#064babelps.it&gt; - patch to add sorting to CertPath validation.</li>
<li>Yvette Skytttaauml; &lt;ville.skyttaauml;@#064iki.fi&gt; - patch to CRL\DistPoint for cRLIssuer field. KeyStore compliance on add patches. DiffieHellman patch for provider compliance. Support for PEM object "TRUSTED CERTIFICATE". Exception handling patch in PEM\Reader. JavaDoc clean up.</li>
<li>Bruce Gordon &lt;bruce.gordon@#064savvis.net&gt; - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPGInputStream.</li>
<li>Miles Whiteley &lt;Miles.Whiteley@#064savvis.net&gt; - "223" fix for BCPGInputStream new packets.</li>
<li>Albert Moliner &lt;amoliner@#064evintia.com&gt; - initial TSP implementation.</li>
<li>Carlos Lozano &lt;carlos@#064evintia.com&gt; - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.</li>
<li>Javier Delgadillo &lt;javi@#064javi.codewarp.org&gt; - initial Mozilla PublicKeyAndChallenge classes.</li>
<li>Joni Hakala &lt;joni.hakala@#064cern.ch&gt; - initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo. We also wish to thank the &lt;a href="http://www.eugee.org">EGEE project</a> for making the work available.
Rolf Schillinger &lt;rolf@064sir-wum.de&gt; - initial implementation of Attribute Certificate generation.

Sergey Batkin &lt;Sergey_Batkin@064yahoo.com&gt; - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411.

Franck Leroy &lt;Franck.Leroy@064keynectis.com&gt; - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.

Atsuhiko Yamanaka &lt;ynnk@064jcraft.com&gt; - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.

Nickolay Bolshakov &lt;tyrex@064reksoft.ru&gt; - patch for class cast exception in AuthorityInformationAccess class.

Soren Hilmer &lt;soren.hilmer@tietoenator.com&gt; - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.

Steve Mitchell &lt;mitchell@064intertrust.com&gt; - patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP.

Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.

Dirk Eisner &lt;D.Eisner@seeburger.de&gt; - initial implementation of ISO 78164-4 padding.

Julien Pasquier &lt;julienpasquier@064free.fr&gt; - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.

Matteo &lt;matartuso@064libero.it&gt; - sequence patch to ASN1Dump.

Andrew Paterson &lt;andrew.paterson@064burnsecs.com&gt; - patches to PGP tools, isRevoked method on PGPPublicKey.

Vladimir Molotkov &lt;vladimir.n.molotkov@064intel.com&gt; - extensive provider exception handling compliance testing.

Florin Kollan &lt;adlocflo@064web.de&gt; - fix to ElGamalKeyParameters equality testing.

Pavel Vassiliev &lt;paulvas@064gmail.com&gt; - Initial GOST28147Mac implementation.

Tom Pesman &lt;tom@064tnux.net&gt; - addition of DES-ede encryption for RSAPrivate keys to PEMWriter.

Lukasz Kowalczyk &lt;lukasz.b.kowalczyk@064gmail.com&gt; - patch to fix parsing issue with OpenSSL PEM based certificate requests.

Arndt Hasch &lt;Arndt.Hasch@maxence.de&gt; - additional fix for partial reading with new style PGP packets.

Fix Bernd (KCDP 11) &lt;bernd.fix@credit-suisse.com&gt; - fix for 31 byte issue and exception throwing by Whirlpool.

David M. Lee &lt;dmlee@Crossroads.com&gt; - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.

Mike Dillon &lt;md5@064embody.org&gt; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.

Joel Rees &lt;rees@ddcom.co.jp&gt; - patch for out of bounds problem in getDecoderStream method.

Chris Schultz &lt;cschultz@064gmail.com&gt; - fix for InputStream constructor for X509V2AttributeCertificate.

David M. Lee &lt;dmlee@064Crossroads.com&gt; - implementation assistance with streaming CMS classes.

Joel Rees &lt;rees@064ddcom.co.jp&gt; - fix to correct getOID methods from returning same set on X.509 attribute certificates.

Francesc Sau &lt;francesc.sau@064partners.netfocus.es&gt; - micro fix for tsp Accuracy class.
Larry Bugbee &lt;bugbee@mac.com&gt; - initial ECNR implementation.

Remi Blancher &lt;Remi.Blancher@keynectis.com&gt; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.

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Andreas Schwier &lt;andreas.schwier@064cardcontact.de&gt; - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-ED2 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.

David Josse &lt;david.josse@transacttools.net&gt; - Patch for trailer function in version 2 signature packets.

Kishimoto Kazuhiko &lt;kazu-k@064hi-ho.ne.jp&gt; - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.

Lawrence Tan &lt;lwrnctan@064gmail.com&gt; - Large field OID sample test data. Missing key types in JDKKeyFactory.

Carlos Valiente &lt;superdupont@064gmail.com&gt; - Addition of CRL writing to the PEMWriter class.

Keyon AG, Martin Christinat, &lt;a href="http://www.keyon.ch"&gt;http://www.keyon.ch&lt;/a&gt; - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.

Olaf Keller, &lt;olaf.keller.bc@064bluewin.ch&gt; - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.

J&ouml;rg Eichhorn &lt;eichhorn@064ponton-consulting.de&gt; - patch to fix EOF read on SharedFileInputStream, support for F2m compression.

Karsten Ohme &lt;widerstand@064t-online.de&gt; - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp contributions to F2m compression. F2m decoding for ECPUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings.

Carlos Lozano Ruiz &lt;carlos@tradise.com&gt; - patch for &lt;ctrl&gt;&lt;m&gt; only handling in CRLFOutputStream.

John Alfred Prufrock &lt;j.a.prufrock@064gmail.com&gt; - mods to GOST-3411 and MD2 to support ExtendedDigest.

Stefan Neusatz Guilhen &lt;stneusatz@064gmail.com&gt; - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.

Marzio Lo Giudice &lt;marzio.logiudice@064gmail.com&gt; - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.

Georg Lippold &lt;georg.lippold@064gmx.de&gt; - initial implementation of NaccacheStern cipher.

Chris Viles &lt;chris_viles@064yahoo.com&gt; - fix to SignatureSubpacket critical bit setting.

Pasi Eronen &lt;pasi.eronen@064nokia.com&gt; - extra toString() support for ASN.1 library. Initial patch for large OID components.

and patch for blank line handling in ArmoredInputStream. Addition of getSignatureAlgorithmID to BasicOCSPResp. Reset fix for SM2 signatures, performance improvements for SHA-3. Clean up of CMP EncryptedValueBuilder, additional functionality on PollReqContent. Bug fix for endianness issue in cSHAKE left encode method.</li><li>Maria Ivanova &lt;maria.ivanova&#064;gmail.com&gt; - support for tags > 30 in ASN.1 parsing.</li><li>Armin H&uuml;berling &lt;arminha&#064;student.ethz.ch&gt; - first cut of internationalisation, initial PKIX validation classes.</li><li>Marius Schilder &lt;mschilder&#064;google.com&gt; - main set of test vectors for Bleichenbacher's forgery attack.</li><li>Xavier Le Vouch &lt;xavier&#064;britannysoftware.com&gt; - general code clean ups.</li><li>Erik Tews &lt;e_tews&#064;cdc.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding.</li><li>Thomas Dixon &lt;reikomusha&#064;gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.</li><li>Frank Cornelis &lt;info&#064;frankcornelis.be&gt; - addition of crlAccessMethod in X509ObjectIdentifiers.</li><li>Rui Joaquim &lt;rjoaquim&#064;064cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.</li><li>David Stacey &lt;DStacey&#064;allantgroup.com&gt; - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.</li><li>Martijn Brinkers &lt;list&#064;064mitm.nl&gt; - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.</li><li>Julius Davies &lt;juilisdavies&#064;gmail.com&gt; - additional modes and algorithm support in PEMReader.</li><li>Matthias &lt;g&#064;064rtnr.de&gt; - GnuPG compatibility changes for PBEFileProcessor.</li><li>Olga K&auml;thler &lt;olga.kaethler&#064;064hjp-consulting.com&gt; - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.</li><li>Germano Rizzo &lt;germano.rizzo&#064;gmail.com&gt; - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.</li><li>N&uuml;aucute;ria Mar&iacute; &lt;nnumaa&#064;064hotmail.com&gt; - patch for alternate data type recognition in CMSignedDataParser.</li><li>Janis Schuller &lt;js&#064;064tzi.de&gt; - addition of NotationData packets for OpenPGP.</li><li>Michael Samblanet &lt;mike&#064;064samblanet.com&gt; - patches towards improved Sun/default provider support in CMS.</li><li>Mike StJohns &lt;stjohns&#064;064comcast.net&gt; - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.</li><li>Ramon Keller &lt;ramon.keller&#064;064gmx.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.</li><li>Mark Nelson &lt;mark&#064;064nbr.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.</li><li>Eugene Golushkov &lt;eugene_gff&#064;ukr.net&gt; - mask fix to single byte read in TlsInputStream.</li><li>Julien Pasquier &lt;julienpasquier&#064;064free.fr&gt; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.</li><li>Peter Knopp &lt;pknopp&#064;064mtg.de&gt; - fix for named curve recognition in ECGOST key generation.</li><li>Jakub Gwozd &lt;jgwozdiu&#064;064rpg.pl&gt; - addition of getTsa() to TimeStampTokenInfo.</li><li>Bartosz Malkowski &lt;bmalkow&#064;064tigase.org&gt; - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.</li><li>Tal Yakobi &lt;tal.yacobi&#064;064octavian-tech.com&gt; - fix for issue in OpenPGP examples [#BJA-55].</li><li>Massimiliano Ziccardi &lt;massimiliano.ziccardi&#064;064gmail.comt&gt; - support for counter signature reading
in CMS API, update for multiple counter signature attributes.</li>
<li>Andrey Pavlenko &lt;andrey.a.pavlenko&#064;gmail.com&gt; - security manager patch for PKCS1Encoding property check.</li>
<li>J Ross Nicoll &lt;jrn&#064;me.uk&gt; - improved exception handling for getInstance() in ASN.1 library.</li>
<li>Matthew Stevenson &lt;mavricknz&#064;yahoo.com&gt; - patch to construtor for CRMF CertSequence.</li>
<li>Gabriele Contini &lt;gcontini&#064;hotpop.com&gt; - identified a bug in ASN.1 library with handling of unterminated NDEF's.</li>
<li>Roelof Naude &lt;roelof.naude&#064;epiuse.com&gt; - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.</li>
<li>Patrick Peck &lt;peck&#064;signaturen.at&gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.</li>
<li>Michael LeMay &lt;lemaymd&#064;lemaymd.com&gt; - identified problem with EAX [#BJA-93].</li>
<li>Alex Dupre &lt;ale&#064;FreeBSD.org&gt; - fix to use of Signature rather than SignatureSpi in provider [BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [BJA-102].</li>
<li>Michael Schoene &lt;michael&#064;sigrid-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().</li>
<li>Jon Larrañaga &lt;ilarra&#064;allanbank.com&gt; - speedups for OpenPGPCFB mode, clean room JCE patches.</li>
<li>Rui Hodai &lt;rui&#064;ntts.co.jp&gt; - speed ups for Camellia implementation, CamelliaLightEngine.</li>
<li>Emir Bucalovic &lt;emir.bucalovic&#064;mail.com&gt; - initial implementation of Grain-v1 and Grain-128.</li>
<li>Torbjorn Svensson &lt;tobbe79&#064;mail.com&gt; - initial implementation of Grain-v1 and Grain-128.</li>
<li>Paul FitzPatrick &lt;bouncycastle_pfitz&#064;fitzpatrick.cc&gt; - error message fix to X509LDAPCertStoreSpi, comparison fix to BCSPKeyPair.</li>
<li>Henrik Andersson &lt;h.andersson&#064;gmail.com&gt; - addition of UniquelIssuerID to certificate generation.</li>
<li>Cagdas Cirit &lt;cagdascirit&#064;mail.com&gt; - subjectAlternativeName fix for x509CertStoreSelector.</li>
<li>Harakiri &lt;harakiri_23&#064;yahoo.com&gt; - datahandler patch for attached parts in SMIME signatures.</li>
<li>Pedro Henriques &lt;pmahenriques&#064;gmail.com&gt; - explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.</li>
<li>Lothar Kinneringer &lt;l.kinneringer&#064;gmail.com&gt; - verbose mode for ASN1Dump, support for DERExternal.</li>
<li>Richard Farr &lt;rfarr.se&#064;gmail.com&gt; - initial SRP-6a implementation.</li>
<li>Thomas Castiglione &lt;t.castiglione&#064;ibm.com&gt; - patch to encoding for CRMF OptionalValidity.</li>
<li>Elisabetta Romani &lt;e.romani&#064;sogei.it&gt; - patch for recognising multiple counter signatures.</li>
<li>Robin Lundgren &lt;r737lundgren&#064;gmail.com&gt; - CMPCertificate constructor from X509CertificateStructure fix.</li>
<li>Petr Kadlec &lt;mormegil&#064;centrum.cz&gt; - fix to sign extension key and IV problem in HC-128, HC-256.</li>
<li>Andreas Antener &lt;antener.a&#064;gmx.ch&gt; - fix to buffer reset in AsymmetricBufferedBlockCipher.</li>
<li>Harendra Rawat &lt;hsrawat&#064;yahoo.com&gt; - fix for BERConstructedOctetString.
Rolf Lindemann &lt;lindemann@064trustcenter.de&gt; patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].

Alex Artamonov &lt;alexart.home@064gmail.com&gt; name lookup patch for GOST-2001 parameters.

Mike Lyons &lt;mlyons@064layer7tech.com&gt; work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.

Chris Cole &lt;chris_h_cole@064yahoo.com&gt; identified a problem handling null passwords when loading a BKS keystore.

Tomas Krivanek &lt;tom@064attack.cz&gt; added checking of Sender header to SignedMailValidator.

Michael &lt;emfau@064t-online.de&gt; correction of field error in getResponse method in CertRepMessage.

Trevor Perrin &lt;trevor@064cryptography.com&gt; addition of constant time equals to avoid possible timing attacks.

Markus Kil &lt;markus@064primekey.se&gt; several enhancements to TimeStampResponseGenerator.

Dario Novakovic &lt;darianis@064yahoo.com&gt; fix for NPE when checking revocation reason on CRL without extensions.

Michael Smith &lt;msmith@064cbnco.com&gt; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.

Andrea Zilio &lt;andrea.zilio@064gmail.com&gt; fix for PEM password encryption of private keys.

Alex Birkett &lt;alex@064birkett.co.uk&gt; added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].

Wayne Grant &lt;waynedgrant@064gmail.com&gt; additional OIDs for PKCS10 and certificate generation support.

Frank Cornelis &lt;info@064frankcornelis.be&gt; additional support classes for CAdES, enhancements to OCSP classes.

Jan Dittberner &lt;jan@064dittberner.info&gt; addHeader patch for SMIME generator.

Bob McGowan &lt;boab.mcgoo@064btinternet.com&gt; patch to support different object and mgf digests in PSS signing.

Ivo Matheis &lt;matheis@064seeburger.de&gt; fix to padding verification in ISO-9796-1.

Marco Sandrini &lt;nessche@064gmail.com&gt; patch to add IV to ISO9797Alg3Mac.

Alf Malf &lt;alfalufaluf@064hotmail.com&gt; removal of unnecessary limit in CMSContentInfoParser.

Alfonso Massa &lt;alfonso massa@064insiel.it&gt; contributions to CMS time stamp classes.

Giacomo Boccardo &lt;gboccardo@064unimaticaspa.it&gt; initial work on CMSTimeStampedDataParser.

Arnis Tartu &lt;arnis@064at.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.

Janusz Sikociski &lt;J.Sikocinski@064gdzie.pl&gt; addition of Features subpacket support to OpenPGP API.

Juri Hudolejev &lt;jhudolejev@064gdzie.pl&gt; JavaDoc fix to CMSSignedDataParser.

Liane Velten &lt;lian.evelten@064hpj-consulting.com&gt; fine tuning of code for DHParameters validation.

Shawn Willden &lt;swillden@064google.com&gt; additional functionality to PGPKeyRing.

Atanas Krachev &lt;akrachev@064gmail.com&gt; added support for revocation signatures in OpenPGP.

Mickael Laiking &lt;mickael.laiking@064keynectis.com&gt; initial cut of EAC classes.

Tim Buktu &lt;tibuktu@064hotmail.com&gt; Initial implementation of NTRU signing and encryption.

Bernd &lt;bernd@064gmail.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.

Steing Inge Morisbak &lt;stein.inge.morisbak@064BEKK.no&gt; Test code for lower case Hex data in PEM headers.
Andreas Schmid &lt;andreas.schmid@#064tnetcom&gt; Additional expiry time check in PGPPublicKeys.

Phil Steitz &lt;phil.steitz@#064gmail.com&gt; Final patch eliminating JCE dependencies in the OpenPGP BC classes.


Petar Petrov &lt;p.petrov@#064bers-soft.com&gt; Testing and debugging of UTF-8 OpenPGP passwords.

Daniel Fitzpatrick &lt;daniel.f.nwr@#064gmail.com&gt; Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.

Andy Neilson &lt;Andy.Neilson@#064quest.com&gt; a further patches to deal with multiple providers and PEMReader.

Ted Shaw &lt;xiao.xj@#064gmail.com&gt; patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.

Eleriseth &lt;Eleriseth@WPECGLtYbVi8Rl6Y7Vz2Lvl2EUVW99v3yNV3IWOOG8.fms&gt; speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.

Kenny Root &lt;kenny@#064the-b.org&gt; patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.

Maarten Bodewes &lt;maarten.bodewes@#064gmail.com&gt; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.

Philip Clay &lt;pilf_b@#064yahoo.com&gt; Initial implementation of J-PAKE.

Brian Carlstrom &lt;bdc@#064carlstrom.com&gt; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.

Samuel Lidén Borell &lt;samuel@#064primekey.se&gt; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder.

Sergio Demian Lerner &lt;sergiolerner@#064certimix.com&gt; pointing out isInfinity issue in ECDSASigner signature verification.

Tim Whittington &lt;Tim.Whittington@#064onionhealth.com&gt; patch to remove extra init call in CMac, additional of Memoable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Nokeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSD BCrypt, PGP API documentation and code quality work.

Marcus Lundblad &lt;marcus.lundblad@#064primekey.se&gt; patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.

Andrey Zhozhin &lt;zhozhin@#064xrm.ru&gt; patch for override of TSP SignerInfo attributes.

Sergey Tiunov &lt;t5555d@#064gmail.com&gt; initial cut of DVCS classes.

Damian Kolas &lt;tfatredyy@#064gmail.com&gt; ASN1Sequence patch for class cast issue in X9Curve.

Ash Hughes &lt;ashley.hughes@#064blueyonder.co.uk&gt; patches for supporting PGPPrivateKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().

Daniel Hirscher &lt;dev@#064daniel-hirscher.de&gt; patch to support parsing of explicit EC parameters in PEM files.
<li>Daniele Ricci &lt;daniele.athome&#064gmail.com&gt; initial implementation of EC keys for OpenPGP and RFC6637 support.</li>
<li>Matti Aarnio &lt;matti.aarnio&#064methics.fi&gt; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes.</li>
<li>Babak Najafi &lt;bnajafi&#064akamai.com&gt; fixes to OpenPGP NotationData to prevent truncation problems.</li>
<li>Eric M&amp;uuml;ller &lt;eric.mueller&#064sage.de&gt; additional standard algorithm name lookups in JcaPEMKeyConverter.</li>
<li>Mathias Herberts &lt;Mathias.Herberts&#064gmail.com&gt; fix to intOff usage in RFC3394WrapEngine.</li>
<li>Daniil Ivanov &lt;daniil.ivanov&#064gmail.com&gt; addition of provider support for GOST HMAC SecretKeyFactory.</li>
<li>Daniele Grasso &lt;daniele.grasso86&#064gmail.com&gt; contributions to final Key calculation code for SRP6.</li>
<li>Andrey Utkin &lt;cindrhc&#064gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.</li>
<li>Arnis Tartu &lt;arnis&#064ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.</li>
<li>AxelVDB &lt;axel-vdb&#064riseup.net&gt; initial implementation of Shacal2.</li>
<li>Roberto Tyley &lt;rtyley&#064gmail.com&gt; further work on completing gradle build.</li>
<li>Waldemar Dick &lt;wdick&#064devmue.de&gt; code improvement in x500 ASN.1 package.</li>
<li>Sid Steward &lt;sid.steward&#064gmail.com&gt; code improvements to ASN1Boolean.</li>
<li>Alex Klyubin &lt;klyubin&#064gmail.com&gt; AlgorithmParameters check for EC key agreement.</li>
<li>Jonathan Gillett &lt;gsoc.student&#064gmail.com&gt; Initial support for block cipher IVs in IESEngine, IESMAC length check bug fix.</li>
<li>Andreas Reiter &lt;andreas.reiter&#064gmail.com&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.</li>
<li>Kieran Miller &lt;kieran.miller&#064gmail.com&gt; initial implementation for RFC 5649 key wrap with padding.</li>
<li>Oliver Ehli &lt;ehli&#064arago.de&gt; Additional support for BSI plain ECDSA in the provider.</li>
<li>Daniel Heldt &lt;Daniel.Heldt&#064cryptovision.com&gt; Initial support for encodable state message digests.</li>
<li>Robert Bushman &lt;bouncycastle&amp;#064traxel.com&gt; Clean up of DirectKeySignature example.</li>
<li>Maurice Aarts &lt;aarts&#064riscure.com&gt; updated to KDF generator to follow NIST SP 800-108.</li>
<li>Franziskus Kiefer &lt;https://github.com/franziskuskiefer&gt; initial implementation of Cramer-Shoup.</li>
<li>KB Sriram &lt;mail_kb&#064yahoo.com&gt; testing for odd encodings for PGP User Attribute Subpackets.</li>
<li>Marco Schulze &lt;marco&#064nightlabs.de&gt; Reported verification bug in GenericSigner.</li>
<li>Oliver Ehli &lt;ehli&#064arago.de&gt; Reported verification bug in GenericSigner.</li>
<li>Martin Schaef &lt;https://github.com/martinschaef&gt; contributed a code-cleanup patch.</li>
<li>dstutz &lt;https://github.com/dstutz&gt; added iteration count setters to PKCS#12 PBE mac/key generator builders.</li>
<li>Tobias Wich &lt;tobias.wich&#064csec.de&gt; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.</li>
<li>Hauke Mehrtens &lt;hauke&#064ecsec.de&gt; TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.</li>
<li>Daniel Zimmerman &lt;dmz&#064galois.com&gt; Further key quality improvements to RSAKeyPairGenerator.</li>
<li>Jens Kapitza &lt;jt.kapitza&#064schwarze-allianz.de&gt; Iterable support in OpenPGP API, code cleanup in OpenPGP API.
<li>Johan Eklund &lt;johan@064primekey.se&gt; update to RFC 6960 for OCSPObjectIdentifiers.</li>
<li>nikosn &lt;https://github.com/nikosn&gt; Fix to encoding of EC private keys to ensure encoding matches order length.</li>
<li>Axel von dem Bruch &lt;axel-vdb@064riseup.net&gt; Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.</li>
<li>Derek Atkins &lt;derek@064hiftp.com&gt; Documentation fixes to X9ObjectIdentifiers.</li>
<li>Peter Jr Halicky &lt;peto@064halicky.sk&gt; Correction to notification/error message handling in SignedMailValidator.</li>
<li>lartiguePierre &lt;https://github.com/lartiguePierre&gt; Fix for counter signature SID in CMSSignedData.</li>
<li>Thomas Belot &lt;thomas.belot+BC@064gmail.com&gt; initial CertPathLoopTest for demonstrating stack overflow issue.</li>
<li>Rich DiCroce &lt;https://github.com/rdicroce&gt; Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.</li>
<li>BJouml;rn Kautler &lt;https://github.com/Vampire&gt; Refinements to cert path validation (authority key addition, certificate order preservation).</li>
<li>Dominik Sch&uuml;rmann &lt;https://github.com/dschuermann&gt; method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.</li>
<li>Michael &lt;MSKnete@064web.de&gt; initial fix for bitStrength issue for OpenPGP EC keys.</li>
<li>Tobias Wagner &lt;tobias.wagner@064n-design.de&gt; Fix SecureRandom handling in BcAsymmetricKeyWrapper [BJA-536].</li>
<li>Sergio Giro &lt;siro@064google.com&gt; Fixed adding of additional stores from CRL distribution point [BJA-537]. Fixed missing null check for CRL certificate issuer [BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.</li>
<li>bschuette &lt;https://github.com/bschuette&gt; Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.</li>
<li>Leonard Dallot &lt;https://github.com/dallotTazTag&gt; Fix to S2K usage of none on changing passwords on keys without passwords originally.</li>
<li>Jan Willem Janssen &lt;j.w.janssen+bouncycastle@064lxtreme.nl&gt; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.</li>
<li>Sebastian Oerding &lt;sebastian.oerding@robotron.de&gt; Fixes to toString() in x509.CertificatePolicies.</li>
<li>Kai Kramer &lt;kai.kramer@064gmail.com&gt; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.</li>
<li>Benoit Charles &lt;benoit.charles@opentrust.com&gt; Fix for IES data length check on decryption.</li>
<li>Niko &lt;nfink95@064gmail.com&gt; fix to cast issue in getOutputSize() for ECIES.</li>
<li>akwizgran &lt;https://github.com/akwizgran&gt; Fixed clone of key in Blake2bDigest copy constructor, blake2b reset issue for variant keys.</li>
<li>Matthias Edelhoff &lt;Matthias.Edelhoff@064cryptovision.com&gt; BasicConstraintsValidation pathlen fix in PKIX certpath classes.</li>
<li>Łukasz Deputat &lt;lukasz.deputat@064gmail.com&gt; Fixed bugs in TlsUtils read methods [BJA-592].</li>
<li>Justin Ludwig &lt;https://github.com/justinludwig&gt; Iterator fix for PGPObj ectFactory to handle stream packets at start of iterated data.</li>
<li>Andr&eacute; Berenguel &lt;https://github.com/berenguel&gt; Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi.</li>
<li>Slawomir Jaranowski &lt;https://github.com/slaweckjaranowski&gt; Patch to make cipher/hash/signature name methods in PGP internal API public.</li>
<li>Andrey Vasilyev &lt;https://github.com/andrey-vasilyev&gt; Initial implementation of GOST R 34.11-2012.
William Glanton &lt;wglanton77#064gmail.com&gt; Fixed bug in Poly1305 [#BJA-620].

Joseph Naegele &lt;njnaegele#064grierforensics.com&gt; Patch for handling multiple certificates in a DANE SMIMEA entry.


The Google Security Team (Project Wycheproof) &lt;https://github.com/google/wycheproof&gt; defect analysis and additional test cases for the provider.

Gorka Irazoqui &lt;girazoki#064wpi.edu&gt; from Intel Security Center of Excellence &lt;https://security-center.intel.com&gt; detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.

Joerg Senekowitsch &lt;joerg.senekowitsch#064veridos.com&gt; patch to deal with hard coded boolean in EAC ECDSAPublicKey.

Alexandr Krivoshta &lt;wipe#064ya.ru&gt; N4 calculation fix to GOFB mode.

Na Yu &lt;na.yu#064samsung.com&gt; Constructor patches to CMC PKIData.

Evan格elos Karasiolisi &lt;ekarasiolisi#064mtg.de&gt; Corrected use of explicit tagging in X.509 PolicyConstraints class.

VivleSoren &lt;https://github.com/VivleSoren&gt; additional constructor for McElieseeCCA2PrivateKeyParameters.

mtausig &lt;https://github.com/mtausig&gt; JavaDoc fix for MCSEncryptedDataGenerator.


Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland#064stud.tu-darmstadt.de&gt; Initial XMSS/XMSSMT implementation.

didisoft &lt;https://github.com/didisoft&gt; test code for PGP signature removal involving user ids.

Mike Safoнов &lt;https://github.com/MikeSafoнов&gt; initial implementation of GOST3410-2012 for lightweight provider and JCA, parameters patches for ECGOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.

Artem Storozhuk &lt;storojs72#064gmail.com&gt; initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.

Andreas Glaser &lt;andreas.glaser#064gi-de.com&gt; patch to recognise ANSI curves for PKCS#10 requests.

codeborne &lt;https://github.com/cbxp&gt; patch to correct OIDs used in public key digest parameters for ECGOST-2012.

FauxFaux &lt;https://github.com/FauxFaux&gt; patch for JDK 1.9 update to DRBG.java.

4garbage &lt;https://github.com/4garbage&gt; patch to allow GOST3410-94 private keys encoded as integers.

ekszz &lt;https://github.com/ekszz&gt; corrections to SM2 signer to include default identity value.

jminer &lt;https://github.com/jminer&gt; fix to Blake2b for hashes in range of 2**64-127 to 2**64.

str4d &lt;https://github.com/str4d&gt; initial implementation of Blake2s.

Scott Woodward &lt;scott#064bit3consulting.com&gt; performance fixes for CTRSP800DRBG.

David Straw &lt;https://github.com/isomarcte&gt; fix for off by one error in SCRYPT bounds checking.

chris mccown &lt;0xchrismccown#064gmail.com&gt; identification of serialisation issue with XMSS/XMSSMT private keys (see also CVE-2018-1000613).

ZZMarquis &lt;https://github.com/ZZMarquis&gt; offset patch for SM2 decrypt.

Andreas Kretschmer &lt;https://github.com/Akretsch&gt; NPE fix for CertTemplate.getVersion().

Armin LunkeП, Michael Tautenhahn &lt;&gt; identification of M-R test issue on higher certainty values in RSA key pair generation.
<li>Vincent Breitmoser &lt;https://github.com/Valodim&gt; fix to ignore unnecessary checksum calculator on PGP secret key encryption.</li>
<li>Adam Vartanian &lt;https://github.com/flooey&gt; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().</li>
<li>Bernd &lt;https://github.com/ecki&gt; Fix to make PGPUtility.pipeFileContents use buffer and not leak file handle.</li>
<li>Shartung &lt;https://github.com/shartung&gt; Additional EC Key Agreement algorithms in support of German BSI TR-03111.</li>
<li>Paul Schaub &lt;https://github.com/vanitasviteae&gt; bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.</li>
<li>Nick of Nexxar &lt;https://github.com/nros&gt; update to OpenPGP package to handle a broader range of EC curves.</li>
<li>catbref &lt;https://github.com/catbref&gt; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).</li>
<li>gerlion &lt;https://github.com/gerlion&gt; detection of concurrency issue with pre-1.60 EC math library.</li>
<li>fgrieu &lt;fgrieu#064gmail.com&gt; identification and suggested fixes for possible timing vulnerability in OAEPEncoding and RSACoreEngine.</li>
<li>MTG &lt;https://github.com/mtgag&gt; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.</li>
<li>Andreas Gadermaier &lt;up.gadermaier#064gmail.com&gt; initial version of Argon2 PBKDF algorithm.</li>
<li>Tony Washer &lt;tony.washer@yahoo.co.uk&gt; review of qTesla, Java 1.9 module code.</li>
<li>Vincent Bouckaert &lt;https://github.com/veebee&gt; initial version of RFC 4998 ASN.1 classes.</li>
<li>Tony Washer &lt;https://github.com/tonywasher&gt; ECIESKeyEncapsulation fix for use of OldCofactor mode.</li>
<li>Aurimas Liutikas &lt;https://github.com/liutikas&gt; JavaDoc patches to ReasonsMask.</li>
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1.1978 x-crypto v0.0.0-20190820162420-60c769a6c586

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* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/META-INF/validation-configuration-1.0.xsd
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/META-INF/validation-mapping-2.0.xsd
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/META-INF/validation-configuration-1.1.xsd
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 *
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 */
/**
 * A method-level constraint, that evaluates a script expression against the
 * annotated method or constructor. This constraint can be used to implement
 * validation routines that depend on several parameters of the annotated
 * executable.
 * </p>
 * <p>
 * Script expressions can be written in any scripting or expression language,
 * for which a <a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a>
 * "Scripting for the Java<sup>TM</sup> Platform") compatible engine can be
 * found on the classpath. To refer to a parameter within the scripting
 * expression, use its name as obtained by the active
 * [link javax.validation.ParameterNameProvider]. By default, [@code arg0], [@code arg1] etc.
 * will be used as parameter names.
 * </p>
 * <p>
 * The following listing shows an example using the JavaScript engine which
 * comes with the JDK:
 * </p>
 * <pre>
 * [@code @ParameterScriptAssert(script = "arg0.before(arg1)", lang = "javascript")
 * public void createEvent(Date start, Date end) { ... }
 */
* }  
* </pre>  
* <p>  
* Can be specified on any method or constructor.  
* </p>  
*  
* @author Gunnar Morling  
*/

Found in path(s):  
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-  
  jar/org/hibernate/validator/constraints/ParameterScriptAssert.java  
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*/  
/**  
**  
* Retrieves constraint related meta data for the parameters of the given  
* executable.  
*  
* @param executable The executable of interest.  
*  
* @return A list with parameter meta data for the given executable.  
*/

Found in path(s):  
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-  
  jar/org/hibernate/validator/internal/metadata/provider/AnnotationMetaDataProvider.java  
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* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-
jar/org/hibernate/validator/internal/util/ConcurrentReferenceHashMap.java
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* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-
jar/org/hibernate/validator/internal/util/TypeHelper.java

1.1980 alsa 1.1.8 1.el7
1.1980.1 Available under license :

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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1.1982 intel-multus-cni 3.3

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http://github.com/gogo/protobuf

Go support for Protocol Buffers - Google's data interchange format

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tomb - support for clean goroutine termination in Go.

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1.1983 e2fsprogs 1.42.9 16.el7

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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*/
Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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#
# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image::$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(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)

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Theodore Ts'o
23-June-2007

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system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
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(This file is under construction.)-*- text -*-

If you've contributed to gas and your name isn't listed here, it is
not meant as a slight. I just don't know about it. Email me, 
nickc@redhat.com and I'll correct the situation.

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the documentation, and info on specific files will go into an AUTHORS 
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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for
gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several
processors, breaking gas up to handle multiple object file format
backends (including heavy rewrite, testing, an integration of the coff
and b.out backends), adding configuration including heavy testing and
verification of cross assemblers and file splits and renaming,
converted gas to strictly ansi C including full prototypes, added
support for m680[34]0 & cpu32, considerable work on i960 including a
coff port (including considerable amounts of reverse engineering), a
sparc opcode file rewrite, decstation, rs6000, and hp300hpux host
ports, updated “know” assertions and made them work, much other
reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan.
Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of
Buffalo University and Torbjorn Granlund of the Swedish Institute of
Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS
back end (tc-mips.c, tc-mips.h), and contributed Rose format support
that hasn't been merged in yet. Ralph Campbell worked with the MIPS
code to support a.out format.
Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-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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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

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 this service 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 make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software
sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation 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
b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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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.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

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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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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.

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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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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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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.

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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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1.1985 strace 4.24-6.el7
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The Arabic, Persian, Romanian, Bulgarian, Hindi and Bengali analyzers (common) come with a default stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:

- `analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt`
- `analysis/common/src/resources/org/apache/lucene/analysis/fi/stopwords.txt`
- `analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt`
- `analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt`

See [http://members.unine.ch/jacques.savoy/clef/index.html](http://members.unine.ch/jacques.savoy/clef/index.html).

The German, Spanish, Finnish, French, Hungarian, Italian, Portuguese, Russian and Swedish light stemmers (common) are based on BSD-licensed reference implementations created by Jacques Savoy and Ljiljana Dolamic. These files reside in:

- `analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java`
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- `analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java`

The Stempel analyzer (stempel) includes BSD-licensed software developed by the Egothor project [http://egothor.sf.net/](http://egothor.sf.net/), created by Leo Galambos, Martin Kvapil, and Edmond Nolan.

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The SmartChineseAnalyzer source code (smartcn) was provided by Xiaoping Gao and copyright 2009 by www.imdict.net.

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**1.1991 jq 1.5 12.el8**

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1.1992 openshift-imagebuilder v1.1.4

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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"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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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable “work that uses the Library”, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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1.1994 golangci-golangci-lint v1.42.1

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The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS
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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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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
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1.1995 python-chardet 2.2.1 3.el7

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1.2000 docker v1.13.1

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---
title: License your installation
description: Learn how to license your Docker Trusted Registry installation.
keywords: docker, dtr, install, license
---

By default, you don't need to license your Docker Trusted Registry. When installing DTR, it automatically starts using the same license file used on your Docker Universal Control Plane cluster.

However, there are some situations when you have to manually license your DTR installation:

* When upgrading to a new major version,
* When your current license expires.

## Download your license

Go to [Docker Store](https://store.docker.com/bundles/docker-datacenter) and download your license.

![](../../images/license-1.png)

## License your installation

---
Once you've downloaded the license file, you can apply it to your DTR installation. Navigate to the **DTR web UI**, and then go to the **Settings page**.

Click the **Apply new license** button, and upload your new license file.

## Where to go next

* [Use your own TLS certificates](use-your-own-tls-certificates.md)

After installing Docker Universal Control Plane, you need to license your installation. Here's how to do it.

## Download your license

Go to [Docker Store](https://store.docker.com/bundles/docker-datacenter) and download your UCP license or get a free trial license.

## License your installation

Once you've downloaded the license file, you can apply it to your UCP installation. Navigate to the **UCP web UI**, and then go to the **Settings page**.

On the **License** page you can upload the new license.

Click **Upload License** for the changes to take effect.

## Where to go next

* [Install UCP](../install/index.md)
* [Install UCP offline](../install/install-offline.md)

Description: Learn how to license your Docker Trusted Registry installation.
By default, you don't need to license your Docker Trusted Registry. When installing DTR, it automatically starts using the same license file used on your Docker Universal Control Plane cluster.

However, there are some situations when you have to manually license your DTR installation:

* When upgrading to a new major version,
* When your current license expires.

## Download your license

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![](../images/license-1.png)

## License your installation

Once you've downloaded the license file, you can apply it to your DTR installation. Navigate to the **DTR web UI**, and then go to the **Settings page**.

![](../images/license-2.png)

Click the **Apply new license** button, and upload your new license file.

## Where to go next

* [Install DTR](index.md)
* [Install DTR offline](install-offline.md)

Docker Universal Control Plane has two types of users: administrators and
regular users. Administrators can make changes to the UCP cluster, while regular users have permissions that range from no access to full control over volumes, networks, images, and containers.

## Administrator users

In Docker UCP, only users with administrator privileges can make changes to cluster settings. This includes:

* Managing user and team permissions,
* Managing cluster configurations like adding and removing nodes to the cluster.

## Default permission levels

Regular users can’t change cluster settings, and they are assigned with a default permission level.

The default permission level specify the permission a user has to access or edit resources. You can choose from four permission levels that range from no access to full control over the resources.

<table>
<thead>
<tr>
<th>Default permission level</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>No Access</code></td>
<td>The user can’t view any resource, like volumes, networks, images, or containers.</td>
</tr>
<tr>
<td><code>View Only</code></td>
<td>The user can view volumes, networks and images, but can’t create any containers.</td>
</tr>
<tr>
<td><code>Restricted Control</code></td>
<td>The user can view and edit volumes, networks, and images. They can create containers, but can’t see other users containers, run <code>docker exec</code>, or run containers that require privileged access to the host.</td>
</tr>
<tr>
<td><code>Full Control</code></td>
<td>The user can view and edit volumes, networks, and images. They can create containers without any restriction, but can’t see other users containers.</td>
</tr>
</tbody>
</table>

When a user only has a default permission assigned, only them and admin users can see the containers they deploy in the cluster.

**NOTE**: Full-control users can utilize host-mounted volumes, which can potentially gain access to sensitive material on the cluster. We recommend giving full-control permissions to users you would trust with admin-level access.

## Team permission levels

Teams allow you to define fine-grain permissions to containers that have the label `com.docker.ucp.access.label` applied to them.

There are four permission levels:
<table>
<thead>
<tr>
<th>Team permission level</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>No Access</code></td>
<td>The user can't view containers with this label.</td>
</tr>
<tr>
<td><code>View Only</code></td>
<td>The user can view but can't create containers with this label.</td>
</tr>
<tr>
<td><code>Restricted Control</code></td>
<td>The user can view and create containers with this label. The user can't run <code>docker exec</code>, or containers that require privileged access to the host.</td>
</tr>
<tr>
<td><code>Full Control</code></td>
<td>The user can view and create containers with this label, without any restriction.</td>
</tr>
</tbody>
</table>

## Where to go next

* [Create and manage users](create-and-manage-users.md)
* [Create and manage teams](create-and-manage-teams.md)

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Docker Trusted Registry allows you to define fine-grain permissions over image repositories.
## Administrator users

Users are shared across Docker Datacenter. When you create a new user in Docker Universal Control Plane, that user becomes available in DTR and vice versa. When you create an administrator user in DTR, that user is a Docker Datacenter administrator, with permissions to:

* Manage users across Docker Datacenter,
* Manage DTR repositories and settings,
* Manage the whole UCP cluster.

## Team permission levels

Teams allow you to define the permissions a set of users has for a set of repositories. Three permission levels are available:

<table>
<thead>
<tr>
<th>Repository operation</th>
<th>read</th>
<th>read-write</th>
<th>admin</th>
</tr>
</thead>
<tbody>
<tr>
<td>View/ browse</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Pull</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Push</td>
<td></td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Delete tags</td>
<td></td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>Edit description</td>
<td></td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>Set public or private</td>
<td></td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>Manage user access</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Delete repository</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Team permissions are additive. When a user is a member of multiple teams, they have the highest permission level defined by those teams.

## Overall permissions

Here's an overview of the permission levels available in DTR:

* Anonymous users: Can search and pull public repositories.
* Users: Can search and pull public repos, and create and manage their own repositories.
* Team member: Everything a user can do, plus the permissions granted by the teams the user is member of.
* Team admin: Everything a team member can do, and can also add members to the team.
* Organization admin: Everything a team admin can do, can create new teams, and add members to the organization.
* DDC admin: Can manage anything across UCP and DTR.

## Where to go next

* [Authentication and authorization](index.md)

---

description: Learn about the permission levels available in Docker Trusted Registry.
keywords: docker, registry, security, permissions
Docker Trusted Registry allows you to define fine-grain permissions over image repositories.

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<td></td>
<td>x</td>
</tr>
<tr>
<td>Delete repository</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Team permissions are additive. When a user is a member of multiple teams, they have the highest permission level defined by those teams.

## Overall permissions

Here's an overview of the permission levels available in DTR:

* Anonymous users: Can search and pull public repositories.
* Users: Can search and pull public repos, and create and manage their own repositories.
* Team member: Everything a user can do, plus the permissions granted by the teams the user is member of.
* Team admin: Everything a team member can do, and can also add members to the team.
* Organization admin: Everything a team admin can do, can create new teams, and add members to the organization.
* DDC admin: Can manage anything across UCP and DTR.

## Where to go next

* [Authentication and authorization](index.md)

---

description: Learn about the permission levels available in Docker Universal Control Plane.
keywords: authorization, authentication, users, teams, UCP
title: Permission levels

---

Docker Universal Control Plane has two types of users: administrators and regular users. Administrators can make changes to the UCP cluster, while regular users have permissions that range from no access to full control over volumes, networks, images, and containers.

### Administrator users

In Docker UCP, only users with administrator privileges can make changes to cluster settings. This includes:

* Managing user and team permissions,
* Managing cluster configurations like adding and removing nodes to the cluster.

### Default permission levels

Regular users can't change cluster settings, and they are assigned with a default permission level.

The default permission level specify the permission a user has to access or edit resources. You can choose from four permission levels that range from no access to full control over the resources.

<table>
<thead>
<tr>
<th>Default permission level</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>No Access</code></td>
<td>The user can't view any resource, like volumes, networks, images, or containers.</td>
</tr>
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<td><code>View Only</code></td>
<td>The user can view volumes, networks and images, but can't create any containers.</td>
</tr>
<tr>
<td><code>Restricted Control</code></td>
<td>The user can view and edit volumes, networks, and images. They can create containers, but can't see other users containers, run <code>docker exec</code>, or run containers that require privileged access to the host.</td>
</tr>
<tr>
<td><code>Full Control</code></td>
<td>The user can view and edit volumes, networks, and images. They can create containers without any restriction, but can't see other users containers.</td>
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</tbody>
</table>

If a user has Restricted Control or Full Control default permissions, they can create resources without labels,
only the user and Admins can see and access the resources. Default permissions also affect ability for a user to access things that can't have labels, images and nodes.

## Team permission levels

Teams and labels give the administrator fine-grained control over permissions. Each team can have multiple labels. Each label has a key of `com.docker.ucp.access.label`. The label is then applied to the containers, services, networks, secrets and volumes. Labels are not currently available for nodes and images. DTR has its own permissions.

There are four permission levels:

<table>
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<th>Team permission level</th>
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## Where to go next

* [Create and manage users](create-and-manage-users.md)
* [Create and manage teams](create-and-manage-teams.md)

---

description: Learn how to license your Docker Universal Control Plane installation.

keywords: Universal Control Plane, UCP, install, license
title: License UCP

---

After installing Docker Universal Control Plane, you need to license your installation. Here's how to do it.

## Download your license

Go to [Docker Store](https://store.docker.com/bundles/docker-datacenter) and download your UCP license or get a free trial license.

![license-ucp-1.png](../images/license-ucp-1.png)
## License your installation

Once you've downloaded the license file, you can apply it to your UCP installation. Navigate to the **UCP web UI**, and then go to the **Settings page**.

On the **License** page you can upload the new license.

Click **Upload License** for the changes to take effect.

## Where to go next

* [Install UCP](index.md)
* [Install UCP offline](install-offline.md)

By default, you don't need to license your Docker Trusted Registry. When installing DTR, it automatically starts using the same license file used on your Docker Universal Control Plane cluster.

However, there are some situations when you have to manually license your DTR installation:

* When upgrading to a new major version,
* When your current license expires.

## Download your license

Go to [Docker Store](https://store.docker.com/bundles/docker-datacenter) and download your license.

Once you've downloaded the license file, you can apply it to your DTR
installation. Navigate to the **DTR web UI**, and then go to the **Settings page**.

![](../images/license-2.png)

Click the **Apply new license** button, and upload your new license file.

## Where to go next

* [Install DTR](index.md)
* [Install DTR offline](install-dtr-offline.md)

---

description: Learn about the permission levels available in Docker Trusted Registry.
keywords: docker, registry, security, permissions
title: Permission levels in DTR

---

Docker Trusted Registry allows you to define fine-grain permissions over image repositories.

### Administrator users

Users are shared across Docker Datacenter. When you create a new user in Docker Universal Control Plane, that user becomes available in DTR and vice versa. When you create an administrator user in DTR, that user is a Docker Datacenter administrator, with permissions to:

* Manage users across Docker Datacenter,
* Manage DTR repositories and settings,
* Manage the whole UCP cluster.

### Team permission levels

Teams allow you to define the permissions a set of user has for a set of repositories. Three permission levels are available:

<table>
<thead>
<tr>
<th>Repository operation</th>
<th>read</th>
<th>read-write</th>
<th>admin</th>
</tr>
</thead>
<tbody>
<tr>
<td>View/ browse</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Pull</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>Push</td>
<td></td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>Delete tags</td>
<td></td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>Edit description</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Set public or private</td>
<td></td>
<td></td>
<td>x</td>
</tr>
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</table>

When a user only has a default permission assigned, only them and admin users can see the containers they deploy in the cluster.

**NOTE**: Full-control users can utilize host-mounted volumes, which can potentially gain access to sensitive material on the cluster. We recommend giving full-control permissions to users you would trust with admin-level access.

## Team permission levels

Teams and labels give the administrator fine-grained control over permissions. Each team can have multiple labels. Each label has a key of `com.docker.ucp.access.label`. The label is then applied to the containers, services, networks, secrets and volumes. Labels are not currently available for nodes and images. DTR has its own permissions.

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## Where to go next

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![./images/license-ucp-2.png]

Click **Upload License** for the changes to take effect.

## Where to go next

* [Install UCP](install-production.md)
* [Install UCP offline](install-offline.md)

1.2001 go-openapi-errors v0.19.9

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/**
* The classes in this package make JDBC easier to use and reduce the likelihood of common errors. In particular, they:
  * <ul>
  * <li>Simplify error handling, avoiding the need for try/catch/finally blocks in application code.
  * <li>Present exceptions to application code in a generic hierarchy of unchecked exceptions, enabling applications to catch data access exceptions without being dependent on JDBC, and to ignore fatal exceptions there is no value in catching.
  * <li>Allow the implementation of error handling to be modified to target different RDBMSes without introducing proprietary dependencies into application code.
  * </ul>

* This package and related packages are discussed in Chapter 9 of Expert One-On-One J2EE Design and Development by Rod Johnson (Wrox, 2002).

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 * &lt;p&gt;&lt;b&gt;NOTE&lt;/b&gt;: Needs to be invoked after the involved PreparedStatements have
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 * Otherwise, the database resources for the temporary BLOBs might stay allocated.
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*/
/**
* Implement this interface when parameters need to be customized based on the connection. We might need to do this to make use of proprietary features, available only with a specific Connection type.
*
* @author Rod Johnson
* @author Thomas Risberg
* @see CallableStatementCreatorFactory#newCallableStatementCreator(ParameterMapper)
* @see org.springframework.jdbc.object.StoredProcedure#execute(ParameterMapper)
*/
/**
* Create a Map of input parameters, keyed by name.
* @param con a JDBC connection. This is useful (and the purpose of this interface) if we need to do something RDBMS-specific with a proprietary Connection implementation class. This class conceals such proprietary details. However, it is best to avoid using such proprietary RDBMS features if possible.
* @return a Map of input parameters, keyed by name (never { @code null})
* @throws SQLException if an SQLException is encountered setting parameter values (that is, there's no need to catch SQLException)
*/

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* /opt/ws_local/PERMITS_SQL/1068412495_1594388232.98/0/spring-jdbc-5-2-5-release-sources-1-
Jar file contents:

jar/org/springframework/jdbc/SQLWarningException.java
* /opt/ws_local/PERMITS_SQL/1068412495_1594388232.98/0/spring-jdbc-5-2-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412495_1594388232.98/0/spring-jdbc-5-2-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412495_1594388232.98/0/spring-jdbc-5-2-5-release-sources-1-
  jar/org/springframework/jdbc/datasource/lookup/SingleDataSourceLookup.java

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* /opt/ws_local/PERMITS_SQL/1068412495_1594388232.98/0/spring-jdbc-5-2-5-release-sources-1-jar/org/springframework/jdbc/EmbeddedDatabaseFactoryBean.java
* /opt/ws_local/PERMITS_SQL/1068412495_1594388232.98/0/spring-jdbc-5-2-5-release-sources-1-jar/org/springframework/jdbc/core/metadata/SqlServerCallMetaDataProvider.java
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* /opt/ws_local/PERMITS_SQL/1068412495_1594388232.98/0/spring-jdbc-5-2-5-release-sources-1-jar/org/springframework/jdbc/support/CustomSQLExceptionCodesTranslation.java
* /opt/ws_local/PERMITS_SQL/1068412495_1594388232.98/0/spring-jdbc-5-2-5-release-sources-1-jar/org/springframework/jdbc/support/xml/XmlJdbc4SqlXmlHandler.java
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* /opt/ws_local/PERMITS_SQL/1068412495_1594388232.98/0/spring-jdbc-5-2-5-release-sources-1-jar/org/springframework/jdbc/repository/DefaultLobHandler.java
* /opt/ws_local/PERMITS_SQL/1068412495_1594388232.98/0/spring-jdbc-5-2-5-release-sources-1-jar/org/springframework/jdbc/datasource/DelegatingDataSource.java
* /opt/ws_local/PERMITS_SQL/1068412495_1594388232.98/0/spring-jdbc-5-2-5-release-sources-1-jar/org/springframework/jdbc/core/metadata/OracleCallMetaDataProvider.java

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* /opt/ws_local/PERMITS_SQL/1068412495_1594388232.98/0/spring-jdbc-5-2-5-release-sources-1-jar/org/springframework/jdbc/core/metadata/DerbyTableMetaDataProvider.java
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* /opt/ws_local/PERMITS_SQL/1068412495_1594388232.98/0/spring-jdbc-5-2-5-release-sources-1-jar/org/springframework/jdbc/core/metadata/ DerbyTableMetaDataProvider.java
java/jar/33656
* /opt/ws_local/PERMITS_SQL/1068412495_1594388232.98/0/spring-jdbc-5-2-5-release-sources-1-jar/springframework/jdbc/object/StoredProcedure.java
* /opt/ws_local/PERMITS_SQL/1068412495_1594388232.98/0/spring-jdbc-5-2-5-release-sources-1-jar/springframework/jdbc/core/simple/SimpleJdbcTemplate.java
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/**
 * Strategy interface for translating between [@link SQLException SQLExceptions]
 * and Spring's data access strategy-agnostic [@link DataAccessException]
 * hierarchy.
 * 
 * @author Rod Johnson
 * @author Juergen Hoeller
 * @see org.springframework.dao.DataAccessException
 */

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1.2011 libunistring 0.9.10 1

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1.2014 slf4j 1.7.30

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Julian Seward, jseward@bzip.org
bzlib/libbz2 version 1.0.6 of 6 September 2010

---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the
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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#!perl

copyright.t

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

cut

use strict;
use Config;
BEGIN { require './test.pl' }
if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{

    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = " ";
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*\b\d{4,}/s
    or die "Year not found in README copyright message $copyright_msg";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{

my $output = runperl switches => ['-v'];
my ($year) = $output =~ /copyright 1987.\d{4,}/i
    or die "Copyright statement not found in perl -v output '$output'";
$year;
}

1.2016 libsepol 3.0 1

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libraries into non-free programs.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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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.
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   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

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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!

1.2017 gophercloud v0.15.0
1.2017.1 Available under license:

package RESOURCE

import (  
    "github.com/gophercloud/gophercloud"  
    "github.com/gophercloud/gophercloud/pagination"
)

// RESOURCE represents...
type Resource struct {

}
type commonResult struct {
  gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.
type GetResult struct {
  commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
type CreateResult struct {
  commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
type DeleteResult struct {
  gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
  commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
  pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
  resources, err := ExtractResources(r)
  return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
  var s struct {
    Links struct {
      Next  string `json:"next"
      Previous string `json:"previous"
    } `json:"links"
  }
}
err := r.ExtractInto(&s)
if err != nil {
    return "", err
}
return s.Links.Next, err

// ExtractResources returns a slice of Resources contained in a single page of results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
    var s struct {
        Resources []Resource `json:"resources"
    }
    err := (r.(ResourcePage)).ExtractInto(&s)
    return s.Resources, err
}

// Extract interprets any commonResult as a Resource.
func (r commonResult) Extract() (*Resource, error) {
    var s struct {
        Resource *Resource `json:"resource"
    }
    err := r.ExtractInto(&s)
    return s.Resource, err
}

Contributor Tutorial
====================
This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code
========================
At this point, you should have:
- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project’s service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the
We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests
----------------------

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* [https://github.com/gophercloud/gophercloud/pull/584](https://github.com/gophercloud/gophercloud/pull/584)
* [https://github.com/gophercloud/gophercloud/pull/586](https://github.com/gophercloud/gophercloud/pull/586)
* [https://github.com/gophercloud/gophercloud/pull/587](https://github.com/gophercloud/gophercloud/pull/587)
* [https://github.com/gophercloud/gophercloud/pull/594](https://github.com/gophercloud/gophercloud/pull/594)
You can also use the provided [template](/docs/contributor-tutorial/template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

### What to Include in a Pull Request

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're [testing](step-04-acceptance-testing.md) with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition,
each package has a `doc.go` file which should be created or amended with
details of your Pull Request, where appropriate.

Dealing with Related Pull Requests
----------------------------------

If you plan to open more than one Pull Request, it's only natural that code
from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement
the code in question. Each Pull Request can be merged in any order because
it's self contained.

Use the following `git` workflow to implement this method:

```
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of
  merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request.
Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```
```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

Step 6: Code Review

---------------

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review

---------------

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:
1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used.

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes
------------------

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal
-------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

```go
package testing

import (
    "fmt"
    "net/http"
    "testing"

    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

// ListResult provides a single page of RESOURCE results.
const ListResult = `{
    }
`
// GetResult provides a Get result.
const GetResult = `{ }
`

// CreateRequest provides the input to a Create request.
const CreateRequest = `{ }
`

// UpdateRequest provides the input to a Update request.
const UpdateRequest = `{ }
`

// UpdateResult provides an update result.
const UpdateResult = `{ }
`

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{ }

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{ }

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{ }

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "GET")
th.TestHeader(t, r, "Accept", "application/json")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
w.Header().Set("Content-Type", "application/json")
w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, ListResult)
// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the // test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the // test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, CreateRequest)

        w.WriteHeader(http.StatusCreated)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the // test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "DELETE")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.WriteHeader(http.StatusNoContent)
    })
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the // test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "PATCH")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, UpdateRequest)
w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, UpdateResult)
}
}
package testing

import {
"testing"
"github.com/gophercloud/gophercloud/openstack/service/vN/resources"
"github.com/gophercloud/gophercloud/pagination"
th "github.com/gophercloud/gophercloud/testhelper"
"github.com/gophercloud/gophercloud/testhelper/client"
}

func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)
    count := 0
        count++

        actual, err := resources.ExtractResources(page)
        th.AssertNoErr(t, err)
        th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
        return true, nil
    })
    th.AssertNoErr(t, err)
    th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)
    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
    actual, err := resources.ExtractResources(allPages)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}
func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleGetResourceSuccessfully(t)

    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleCreateResourceSuccessfully(t)

    createOpts := resources.CreateOpts{
        Name: "resource two",
    }

    actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
    th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)

    res := resources.Delete(client.ServiceClient(), "9fe1d3")
    th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleUpdateResourceSuccessfully(t)

    updateOpts := resources.UpdateOpts{
        Description: "Staging Resource",
    }

    actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

package RESOURCE
import (  "github.com/gophercloud/gophercloud"  "github.com/gophercloud/gophercloud/pagination"
)

// ListOptsBuilder allows extensions to add additional parameters to  
// the List request

type ListOptsBuilder interface {  
  ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.

type ListOpts struct {
  }  

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {  
  q, err := gophercloud.BuildQueryString(opts)  
  return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {  
  url := listURL(client)  
  if opts != nil {  
    query, err := opts.ToResourceListQuery()  
    if err != nil {  
      return pagination.Pager{Err: err}
    }
    url += query
  }
    return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
  })
}

// Get retrieves details of a RESOURCE.

func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {  
  resp, err := client.Get(getURL(client, id), &r.Body, nil)  
  _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
  return
}

// CreateOptsBuilder allows extensions to add additional parameters to  
// the Create request.


type CreateOptsBuilder interface {  
  ToResourceCreateMap() (map[string]interface{}, error)
}
// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    resp, err := client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    resp, err := client.Delete(deleteURL(client, id), nil)
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {

b, err := opts.ToResourceUpdateMap()
if err != nil {
    r.Err = err
    return
}
resp, err := client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
    OkCodes: []int{200},
})
_, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
return

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package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

// Step 7: Congratulations!
// ================

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

Step 4: Acceptance Testing
// =========================

If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?
Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

/*
Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/

package RESOURCE

Step 2: Create an Issue

-------------------------------

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

-------------

When reporting a bug, please try to provide as much information as you can.
The following issues are good examples for reporting a bug:

* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
* https://github.com/gophercloud/gophercloud/issues/647

Feature Request
---------------

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is to start a discussion about whether or not the feature should be included in Gophercloud. We don't want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project
These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

**Step 3: Code Hunting**

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621).

In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package.

Meaning, we want to change:

```go
type Network struct {
    ID string `json:"id"`
    Name string `json:"name"`
    AdminStateUp bool  `json:"admin_state_up"`
    Status string `json:"status"`
    Subnets []string `json:"subnets"`
    TenantID string `json:"tenant_id"`
    Shared  bool     `json:"shared"
}
```

... to look like

```go

```

```go
type Network struct {
    ID string `json:"id"`
    Name string `json:"name"`
    AdminStateUp bool `json:"admin_state_up"`
    Status string `json:"status"`
    Subnets []string `json:"subnets"`
}`
```
TenantID              string   `json:"tenant_id"`
Shared                bool     `json:"shared"`
AvailabilityZoneHints []string `json:"availability_zone_hints"
```

We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/).

However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying that the API docs aren't useful or that the contributors who work on the API docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[]string`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
Code Hunting Tips

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

Step 1: Read Our Guides

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

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*/

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Chad Walters <chad@powerset.com>
-TJSONProtocol for C++ and Java

Nitay <nitayj@gmail.com>
-Support for "make check"

William Morgan <w@adap.tv>
-Miscellaneous Ruby improvements

Ben Maurer <bmaurer@andrew.cmu.edu>
-Restructuring the way Autoconf is used

Patrick Collison <patrick@collison.ie>
-Smalltalk bindings

Dave Simpson <dave@powerset.com>
-Better support for connection tracking in the C++ server
-Miscellaneous fixes

Igor Afanasyev <afan@evernote.com>
-Perl HttpClient and bugfixes

Todd Berman <tberman@imeem.com>
-MinGW port of the compiler
-C# bindings
-MS build task

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Release 20070917
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Dave Engberg <engberg@gmail.com>
-JavaBean/JavaDoc enhancements

Andrew McGeachie <geechorama@gmail.com>
-Cocoa/Objective-C support

Ben Maurer <bmaurer@andrew.cmu.edu>
-Python performance enhancements, fastbinary support

Andrew Lutomirski <andy@luto.us>
-Added optional/required keywords for C++ objects
-Added comparison operators for C++ structs

Johan Oskarsson <johan@oksarsson.nu>
-Java findbugs compliance fixes

Paul Saab <ps@powerset.com>
-IPv6 support for TSocket in C++/Python

Kevin Clark <kevin@powerset.com>
-Significant overhaul of Ruby code generation and servers

Simon Forman <sforman@gmail.com>
-TProcessorFactory abstraction for Java servers

Jake Luciani <jakers@gmail.com>
-Perl code generation, libraries, test code

David Reiss <dreiss@stanford.edu>
-strings.h include fix for bzero
-endianness fixes on TBinaryProtocol double serialization
-improved ntohll, htonlI implementation

Dan Li <dto@dev.java.net>
-Java TestServer and Tutorial Fixes

Kevin Ko <kevin.s.ko@gmail.com>
-Fix for unnecessary std::string copy construction in Protocol/Exception

Paul Querna <pquerna@apache.org>
-Autoconf error message fix for libevent detection
-clock_gettime implementation for OSX

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Release 20070401
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#*STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

--------------------------------------------------------------------------

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1.2045 e2fsprogs 1.44.5 1+deb10u3

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Index: tdbsa/tdb.c
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss
custom-line interface parsing library. It is currently
distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
Open Source Used In APIC-SE-BATMAN 2.1.1d  28209

# 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 is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Gadi Oxman, August 1995

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1.2046 ingest-geoip 6.8.3

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1.2048 go-redis-redis v5.2.9
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1.2049 unzip 6.0-21.el7_9.0atomix1
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Please read LICENSE first to find out what is allowed to do with
Info-ZIP's UnZip code.

------------------------------------------------------------------------
There are currently two explicit copyrights on portions of UnZip
code (at least, of which Info-ZIP is aware):
Jim Luther's Mac OS File Manager interface code; and Christopher Evans'
MacBinaryIII coding code (for the MacOS port). These copyrights
are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered
by the new Info-ZIP license. For details, please read the accompanying
file LICENSE. The terms and conditions in this license supersede the
copyright conditions of the contributions by Igor Mandrichenko
(vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c),
Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket
UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompression
core routines, previously put into the public domain). All these
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Frequently Asked Questions regarding (re)distribution of Zip and UnZip
are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys
claims a patent on LZW encoding and on LZW decoding _in an apparatus
that performs LZW encoding_, but the patent appears to exempt a stand-
alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed
otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program.

For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

* MoreFiles

* A collection of File Manager and related routines

* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
* with significant code contributions by Nitin Ganatra
* (Apple Macintosh Developer Technical Support Emeritus)
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The following copyright applies to the Mac OS "macbin3" decoding code
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* MacBinaryIII.h
*
* Copyright 1997 Christopher Evans (cevans@poppybank.com)
* 
* Basic encoding and decoding of Macintosh files to the
* MacBinary III spec.
* -----------------------------------------------------------------------------
* This source is copyrighted by Christopher Evans (cevans@poppybank.com)
* (available at ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit
* homepage of Leonard Rosenthal  leonardr@netcom.com)

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that this code is freely reusable until we are proved wrong...

-----------------------------------------------------------------------------

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The following copyright applies to the full-featured unreduce.c
(now distributed separately):

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* Do not use any of this in a commercial product.

Regarding the first stipulation, Mr. Smith was tracked down in southern
California some years back [Samuel H. Smith, The Tool Shop; as of mid-
May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS),
71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that
he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said.

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduce code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

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- from Steve P. Miller.

The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to):
Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.
The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

1.2050 audit 2.8.5-2ubuntu6
1.2050.1 Available under license:

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

  Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cffe2bb5b6.

  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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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
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<xsl:variable name="isc.copyright.text">

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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1.2076 slf4j-log4j 1.7.30

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html
org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

-----

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
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  <artifactId>jctools-core</artifactId>
  <version>3.0.0</version>
  <name>Java Concurrency Tools Core Library</name>
  <description>Java Concurrency Tools Core Library</description>
  <packaging>bundle</packaging>

  <dependencies>
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      <artifactId>hamcrest-all</artifactId>
      <version>${hamcrest.version}</version>
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<url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>

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No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Bnd-LastModified: 1578049665284
Build-Jdk: 1.8.0_232
Built-By: yak
Bundle-Description: Java Concurrency Tools Core Library
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Java Concurrency Tools Core Library
Bundle-SymbolicName: org.jctools.core
Bundle-Version: 3.0.0
Created-By: Apache Maven Bundle Plugin
Export-Package: org.jctools.maps;version="3.0.0",org.jctools.util;version="3.0.0",org.jctools.queues.spec;version="3.0.0",uses="org.jctools.queues",org.jctools.queues.spec;version="3.0.0",org.jctools.queues.atomic;version="3.0.0",uses="org.jctools.queues.org.jctools.queues.spec"
Import-Package: sun.misc;resolution:=optional
Require-Capability: osgi.ee;filter="(&osgi.ee=JavaSE)(version=1.6)"
Tool: Bnd-4.2.0.201903051501

1.2080 sed 4.2.2 5.el7
1.2080.1 Available under license:

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1.2083 iperf 3.1.7 2.el7

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  jar/io/netty/channel/epoll/Native.java
* /opt/cola/permits/1151781995_1617981755.5/0/netty-transport-native-epoll-4-1-63-final-sources-
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 */
* Set the `TCP_MD5SIG` option on the socket. See `linux/tcp.h` for more details.
* Keys can only be set on, not read to prevent a potential leak, as they are confidential.
* Allowing them being read would mean anyone with access to the channel could get them.
*/
/**
* Set the `TCP_QUICKACK` option on the socket.
* See <a href="https://linux.die.net//man/7/tcp">TCP_QUICKACK</a> for more details.
*/

Found in path(s):
* /opt/cola/permits/1151781995_1617981755.5/0/netty-transport-native-epoll-4-1-63-final-sources-jar/io.netty.channel.epoll/EpollSocketChannelConfig.java

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* /opt/cola/permits/1151781995_1617981755.5/0/netty-transport-native-epoll-4-1-63-final-sources-jar/io.netty.channel.epoll/AbstractEpollStreamChannel.java
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*/
/**
  * Set the [@code TCP_MD5SIG] option on the socket. See [@code linux/tcp.h] for more details.
  * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
  * Allowing them being read would mean anyone with access to the channel could get them.
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import (   
"bytes"
"io/ioutil"
"os"
)
"path/filepath"
"strings"
"testing"
)

var sentinels = []string{
"Copyright",
"Google",
'Licensed under the Apache License, Version 2.0 (the "License");',
}

func TestLicense(t *testing.T) {
  t.Parallel()
  err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
    if err != nil {
      return err
    }
    if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
      return nil
    }
    if strings.HasSuffix(path, ".pb.go") {
      // .pb.go files are generated from the proto files.
      // .proto files must have license headers.
      return nil
    }
    if path == "bigtable/cmd/cbt/cbtdoc.go" {
      // Automatically generated.
      return nil
    }
    if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
      // BSD license, which is compatible, is embedded in the file.
      return nil
    }
    src, err := ioutil.ReadFile(path)
    if err != nil {
      return nil
    }
    src = src[:300] // Ensure all of the sentinel values are at the top of the file.
    // Find license
    for _, sentinel := range sentinels {
      if !bytes.Contains(src, []byte(sentinel)) {
        t.Errorf("%v: license header not present. want %q", path, sentinel)
        return nil
      }
    }
  })
}
return nil
)
if err != nil {
t.Fatal(err)
}

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This product includes code (JaspellTernarySearchTrie) from Java Spelling Checkin g Package (jaspell): http://jaspell.sourceforge.net/ License: The BSD License (http://www.opensource.org/licenses/bsd-license.php)

The snowball stemmers in
    analysis/common/src/java/net/sf/snowball
were developed by Martin Porter and Richard Boulton.
The snowball stopword lists in
    analysis/common/src/resources/org/apache/lucene/analysis/snowball
were developed by Martin Porter and Richard Boulton.
The full snowball package is available from
    http://snowball.tartarus.org/

The KStem stemmer in
    analysis/common/src/org/apache/lucene/analysis/en
was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst) under the BSD-license.

The Arabic, Persian, Romanian, Bulgarian, Hindi and Bengali analyzers (common) come with a default stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:
    analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
    analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
    analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
    analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt

The German, Spanish, Finnish, French, Hungarian, Italian, Portuguese, Russian and Swedish light stemmers (common) are based on BSD-licensed reference implementations created by Jacques Savoy and Ljiljana Dolamic. These files reside in:

analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

The Stempel analyzer (stempel) includes BSD-licensed software developed by the Egothor project http://egothor.sf.net/, created by Leo Galambos, Martin Kvapil, and Edmond Nolan.

The Polish analyzer (stempel) comes with a default stopword list that is BSD-licensed created by the Carrot2 project. The file resides in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt.
See http://project.carrot2.org/license.html.

The SmartChineseAnalyzer source code (smartcn) was provided by Xiaoping Gao and copyright 2009 by www.imdict.net.

WordBreakTestUnicode_*.java (under modules/analysis/common/src/test/) is derived from Unicode data such as the Unicode Character Database.
See http://unicode.org/copyright.html for more details.

The Morfologik analyzer (morfologik) includes BSD-licensed software developed by Dawid Weiss and Marcin Mikowski (http://morfologik.blogspot.com/).

Morfologik uses data from Polish ispell/myspell dictionary (http://www.sjp.pl/slownik/en/) licenced on the terms of (inter alia) LGPL and Creative Commons ShareAlike.

Morfologic includes data from BSD-licensed dictionary of Polish (SGJP) (http://sgjp.pl/morfeusz/)

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This software includes a binary and/or source version of data from

mecab-ipadic-2.7.0-20070801

which can be obtained from

http://atilika.com/releases/mecab-ipadic/mecab-ipadic-2.7.0-20070801.tar.gz

or

http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz

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===========================================================================
Nori Korean Morphological Analyzer - Apache Lucene Integration
===========================================================================

This software includes a binary and/or source version of data from

mecab-ko-dic-2.0.3-20170922

which can be obtained from

https://bitbucket.org/eunjeon/mecab-ko-dic/downloads/mecab-ko-dic-2.0.3-20170922.tar.gz
1.2091 tribe 6.8.3

1.2091.1 Available under license:

Apache License
Version 2.0, January 2004
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1.2092 perl-carp 1.26 244.el7

1.2093 fmt 8.0.1

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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</table>

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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
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Bowes, Keith
Boyce, Keith Garry
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Dill, David
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Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
The following people have worked to translate sudo into other languages:

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  Bogusz, Jakub
  Buo-ren, Lin
  Casagrande, Milo
  Castro, Felipe

Schuring, Arno
Schwarze, Ingo
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1.2107 perl-pod-checker 1.73-395.el8

1.2107.1 Available under license:
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Pod::Checker
--------

A module to check the syntax of a POD document. It is just in the very beginning stages right now and is *far* from being thorough or complete. Its just a starting point that I hope others who plan to use it can help me flesh it out further.
This module also collects information about hyperlink nodes of the document processed that can be used by converters later on.

This separate distribution was created to allow refactoring of Pod::Checker to use Pod::Simple instead of Pod::Parser, such that Pod::Parser can be discontinued from the Perl Core in the near future.

AUTHORS/CONTRIBUTORS
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Kudos to:
rjbs for driving the transition to Pod::Simple
Karl Williamson for numerous patches

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REQUIREMENTS
================
* Perl version 5.005 or later
* Pod::Parser 1.60 or higher from CPAN (already bundled in Perl 5.005)

BUILDING & INSTALLING
=======================
Please see the perl "ExtUtils::MakeMaker" manpage for how to build and install using the Makefile.PL template. In a nutshell, simply typing:

perl Makefile.PL

should build a Makefile with the usual targets like "all", "clean", "test", and "install".

BUGS
=====
Please use the CPAN bug tracking to report bugs:
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Found in path(s):
* /opt/cola/permits/1139282093_1614507545.11/0/perl-Pod-Checker-1.73-395.el8-1.src.rpm-cosi-expand-archive-Xa3FxJg3/Pod-Checker-1.73.tar.gz-cosi-expand-archive-eymEWRKx/Pod-Checker-1.73/README
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abstract: 'Pod::Checker verifies POD documentation contents for compliance with the POD format specifications'
author:
- 'Marek Rouchal <marekr@cpan.org>'
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.66, CPAN::Meta::Converter version 2.120921'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Pod-Checker
no_index:
directory:
  - t
  - inc
requires:
  Cwd: 0
  File::Basename: 0
  Pod::Simple: 3.28
  Test::More: 0.6
version: 1.73

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1.2111 prometheus-client v0.2.0

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1.2112 e2fsprogs 1.42.9 7.el7

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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
/*
*/
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Theodore Ts'o
23-June-2007

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That's all there is to it!

#
# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image: $(BSD_LIB)

$(BSD_LIB): $(OBJS)

(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib\;\;/' ($(SHLIBDIR) $(BSD_LIB))

```
install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Gadi Oxman, August 1995
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1.2116 click 7.0

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.. _contrib:

=============
click-contrib
=============

As the userbase of Click grows, more and more major feature requests pop up in
Click's bugtracker. As reasonable as it may be for those features to be bundled
with Click instead of being a standalone project, many of those requested
features are either highly experimental or have unproven practical use, while
potentially being a burden to maintain.

This is why click-contrib_ exists. The GitHub organization is a collection of
possibly experimental third-party packages whose featureset does not belong
into Click, but also a playground for major features that may be added to Click
in the future. It is also meant to coordinate and concentrate effort on writing
third-party extensions for Click, and to ease the effort of searching for such
extensions. In that sense it could be described as a low-maintenance
alternative to extension repositories of other frameworks.

Please note that the quality and stability of those packages may be different
than what you expect from Click itself. While published under a common
organization, they are still projects separate from Click.

.. _click-contrib: https://github.com/click-contrib/

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----

Click uses parts of optparse written by Gregory P. Ward and maintained by the Python Software Foundation. This is limited to code in parser.py.

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# binary only, patch it back to the system, and then use a wrapper

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```python
import io
import re
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
    readme = f.read()

with io.open("click/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r"__version__ = '(.*?)'", f.read()).group(1)

setup(
    name="Click",
    version=version,
    url="https://palletsprojects.com/p/click/",
    project_urls={
        "Documentation": "https://click.palletsprojects.com/",
        "Code": "https://github.com/pallets/click",
        "Issue tracker": "https://github.com/pallets/click/issues",
    },
    license="BSD",
    author="Armin Ronacher",
    author_email="armin.ronacher@active-4.com",
    maintainer="Pallets Team",
    maintainer_email="contact@palletsprojects.com",
    description="Composable command line interface toolkit",
    long_description=readme,
    packages=['click'],
    include_package_data=True,
    python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*",
    classifiers=[
        "Development Status :: 5 - Production/Stable",
        "Intended Audience :: Developers",
        "License :: OSI Approved :: BSD License",
        "Operating System :: OS Independent",
    ],
)```

Open Source Used In APIC-SE-BATMAN 2.1.1d 28781
Click is a Python package for creating beautiful command line interfaces in a composable way with as little code as necessary. It's the "Command Line Interface Creation Kit". It's highly configurable but comes with sensible defaults out of the box.

It aims to make the process of writing command line tools quick and fun while also preventing any frustration caused by the inability to implement an intended CLI API.

Click in three points:

- Arbitrary nesting of commands
- Automatic help page generation
- Supports lazy loading of subcommands at runtime

Installing
---------

Install and update using `pip`:

```
$ pip install click
```

Click supports Python 3.4 and newer, Python 2.7, and PyPy.

A Simple Example

-----------------

What does it look like? Here is an example of a simple Click program:

```python
import click

@click.command()
@click.option("--count", default=1, help="Number of greetings.")
@click.option("--name", prompt="Your name",
             help="The person to greet.")
def hello(count, name):
    """Simple program that greets NAME for a total of COUNT times."""
    for _ in range(count):
        click.echo("Hello, %s!" % name)

if __name__ == '__main__':
    hello()
```

And what it looks like when run:

```
$ python hello.py --count=3
Your name: Click
Hello, Click!
Hello, Click!
Hello, Click!
```

Donate

-----

The Pallets organization develops and supports Click and other popular packages. In order to grow the community of contributors and users, and allow the maintainers to devote more time to the projects, `please donate today`_.

.. _please donate today: https://palletsprojects.com/donate

Links

-----

* Website: https://palletsprojects.com/p/click/
* Documentation: https://click.palletsprojects.com/
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* Test status:

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1.2117 snappy-java 1.1.7.3

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1.2118 go-macaron-session v0.0.0-20190805070824-1a3cdc6f5659

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DRuntime: Runtime Library for the D Programming Language

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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1.2122 compiler 0.9.3

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Gocheck - A rich testing framework for Go

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https://github.com/golang/protobuf

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1.2125 jetty-security 9.4.42.v20210604
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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by
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1.2126 x-net v0.0.0-20190213061140-3a22650c66bd

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1.2128 dimchansky-utfbom v1.1.0

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Requests includes some vendorized python libraries to ease installation.

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1.2132 binutils 2.27-44.base.el7

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host
ports, updated "know" assertions and made them work, much other
reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan.
Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of
Buffalo University and Torbjorn Granlund of the Swedish Institute of
Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS
back end (tc-mips.c, tc-mips.h), and contributed Rose format support
that hasn't been merged in yet. Ralph Campbell worked with the MIPS
code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors
(tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format
(obj-ieee), was written by Steve Chamberlain of Cygnus Solutions.
Steve also modified the COFF back end (obj-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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1.2136 pierrec-lz4 v2.4.0+incompatible

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1.2138 jsondiff 1.1.2

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1.2140 kubernetes-sigs-cri-tools v1.21.0

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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tomb - support for clean goroutine termination in Go.

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* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/CreateMode.java
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1.2174 perl-devel-size 0.81-2.el8
1.2174.1 Available under license :
No license file was found, but licenses were detected in source scan.

=pod

=head1 NAME
Devel::Size - Perl extension for finding the memory usage of Perl variables

=head1 SYNOPSIS

use Devel::Size qw(size total_size);

my $size = size("A string");

my @foo = (1, 2, 3, 4, 5);
my $other_size = size(@foo);

my $foo = {a => [1, 2, 3],
           b => {a => [1, 3, 4]}};
my $total_size = total_size($foo);

=head1 DESCRIPTION

This module figures out the real size of Perl variables in bytes, as accurately as possible.

Call functions with a reference to the variable you want the size of. If the variable is a plain scalar it returns the size of this scalar. If the variable is a hash or an array, use a reference when calling.

=head1 FUNCTIONS

=head2 size($ref)

The C<size> function returns the amount of memory the variable returns. If the variable is a hash or an array, it only reports the amount used by the structure, I<not> the contents.

=head2 total_size($ref)

The C<total_size> function will traverse the variable and look at the sizes of contents. Any references contained in the variable will also be followed, so this function can be used to get the total size of a multidimensional data structure. At the moment there is no way to get the size of an array or a hash and its elements without using this function.

=head1 EXPORT

None but default, but optionally C<size> and C<total_size>.

=head1 UNDERSTANDING MEMORY ALLOCATION
Please note that the following discussion of memory allocation in perl is based on the perl 5.8.0 sources. While this is generally applicable to all versions of perl, some of the gory details are omitted. It also makes some presumptions on how your system memory allocator works so, while it will be generally correct, it may not exactly reflect your system. (Generally the only issue is the size of the constant values we'll talk about, not their existence)

=head2 The C library

It's important first to understand how your OS and libraries handle memory. When the perl interpreter needs some memory, it asks the C runtime library for it, using the C<malloc()> call. C<malloc> has one parameter, the size of the memory allocation you want, and returns a pointer to that memory. C<malloc> also makes sure that the pointer it returns to you is properly aligned. When you're done with the memory you hand it back to the library with the C<free()> call. C<free> has one parameter, the pointer that C<malloc> returned.

There are a couple of interesting ramifications to this.

Because malloc has to return an aligned pointer, it will round up the memory allocation to make sure that the memory it returns is aligned right. What that alignment is depends on your CPU, OS, and compiler settings, but things are generally aligned to either a 4 or 8 byte boundary. That means that if you ask for 1 byte, C<malloc> will silently round up to either 4 or 8 bytes, though it doesn't tell the program making the request, so the extra memory can't be used.

Since C<free> isn't given the size of the memory chunk you're freeing, it has to track it another way. Most libraries do this by tacking on a length field just before the memory it hands to your program. (It's put before the beginning rather than after the end because it's less likely to get mangled by program bugs) This size field is the size of your platform integer, Generally either 4 or 8 bytes.

So, if you asked for 1 byte, malloc would build something like this:

```
+------------------+
| 4 byte length   |
+------------------+ <----- the pointer malloc returns
| your 1 byte     |
+------------------+
| 3 bytes padding |
+------------------+
```

As you can see, you asked for 1 byte but C<malloc> used 8. If your
integers were 8 bytes rather than 4, C\texttt{malloc} would have used 16 bytes to satisfy your 1 byte request.

The C memory allocation system also keeps a list of free memory chunks, so it can recycle freed memory. For performance reasons, some C memory allocation systems put a limit to the number of free segments that are on the free list, or only search through a small number of memory chunks waiting to be recycled before just allocating more memory from the system.

The memory allocation system tries to keep as few chunks on the free list as possible. It does this by trying to notice if there are two adjacent chunks of memory on the free list and, if there are, coalescing them into a single larger chunk. This works pretty well, but there are ways to have a lot of memory on the free list yet still not have anything that can be allocated. If a program allocates one million eight-byte chunks, for example, then frees every other chunk, there will be four million bytes of memory on the free list, but none of that memory can be handed out to satisfy a request for 10 bytes. This is what's referred to as a fragmented free list, and can be one reason why your program could have a lot of free memory yet still not be able to allocate more, or have a huge process size and still have almost no memory actually allocated to the program running.

=head2 Perl

Perl's memory allocation scheme is a bit convoluted, and more complex than can really be addressed here, but there is one common spot where Perl's memory allocation is unintuitive, and that's for hash keys.

When you have a hash, each entry has a structure that points to the key and the value for that entry. The value is just a pointer to the scalar in the entry, and doesn't take up any special amount of memory. The key structure holds the hash value for the key, the key length, and the key string. (The entry and key structures are separate so perl can potentially share keys across multiple hashes)

The entry structure has three pointers in it, and takes up either 12 or 24 bytes, depending on whether you're on a 32 bit or 64 bit system. Since these structures are of fixed size, perl can keep a big pool of them internally (generally called an arena) so it doesn't have to allocate memory for each one.

The key structure, though, is of variable length because the key string is of variable length, so perl has to ask the system for a memory allocation for each key. The base size of this structure is 8 or 16 bytes (once again, depending on whether you're on a 32 bit or 64 bit system) plus the string length plus two bytes.
Since this memory has to be allocated from the system there’s the malloc size-field overhead (4 or 8 bytes) plus the alignment bytes (0 to 7, depending on your system and the key length) that get added on to the chunk perl requests. If the key is only 1 character, and you're on a 32 bit system, the allocation will be 16 bytes. If the key is 7 characters then the allocation is 24 bytes on a 32 bit system. If you're on a 64 bit system the numbers get even larger.

=head1 DANGERS

Since version 0.72, Devel::Size uses a new pointer tracking mechanism that consumes far less memory than was previously the case. It does this by using a bit vector where 1 bit represents each 4- or 8-byte aligned pointer (32- or 64-bit platform dependent) that could exist. Further, it segments that bit vector and only allocates each chunk when an address is seen within that chunk. Since version 0.73, chunks are allocated in blocks of 2**16 bits (ie 8K), accessed via a 256-way tree. The tree is 2 levels deep on a 32 bit system, 6 levels deep on a 64 bit system. This avoids having make any assumptions about address layout on 64 bit systems or trade offs about sizes to allocate. It assumes that the addresses of allocated pointers are reasonably contiguous, so that relevant parts of the tree stay in the CPU cache.

Besides saving a lot of memory, this change means that Devel::Size runs significantly faster than previous versions.

=head1 Messages: texts originating from this module.

=head2 Errors

=over 4

=item "Devel::Size: Unknown variable type"

The thing (or something contained within it) that you gave to total_size() was unrecognisable as a Perl entity.

=back

=head2 warnings

These messages warn you that for some types, the sizes calculated may not include everything that could be associated with those types. The differences are usually insignificant for most uses of this module.

These may be disabled by setting
Devel::Size::warn = 0

=item "Devel::Size: Calculated sizes for CVs are incomplete"

=item "Devel::Size: Calculated sizes for FMs are incomplete"

=back

=head2 New warnings since 0.72

Devel::Size has always been vulnerable to trapping when traversing Perl’s internal data structures, if it encounters uninitialised (dangling) pointers.

MSVC provides exception handling able to deal with this possibility, and when built with MSVC Devel::Size will now attempt to ignore (or log) them and continue. These messages are mainly of interest to Devel::Size and core developers, and so are disabled by default.

They may be enabled by setting

$Devel::Size::dangle = 0

=back

=head1 BUGS

Doesn't currently walk all the bits for code refs, formats, and IO. Those throw a warning, but a minimum size for them is returned.

Devel::Size only counts the memory that perl actually allocates. It doesn't count 'dark' memory--memory that is lost due to fragmented free lists, allocation alignments, or C library overhead.

=head1 AUTHOR
Dan Sugalski dan@sidhe.org

Small portion taken from the B module as shipped with perl 5.6.2.

Previously maintained by Tels <http://bloodgate.com>

New pointer tracking & exception handling for 0.72 by BrowserUK

Currently maintained by Nicholas Clark

=head1 COPYRIGHT

Copyright (C) 2005 Dan Sugalski, Copyright (C) 2007-2008 Tels

This module is free software; you can redistribute it and/or modify it under the same terms as Perl v5.8.8.

=head1 SEE ALSO

perl(1), L<Devel::Size::Report>.

=cut

Found in path(s):
* /opt/cola/permits/1139281858_1614507638.07/0/perl-Devel-Size-0.81-2.el8-1.src.rpm-cosi-expand-archive-S1ktz4mC/Devel-Size-0.81.tar.gz-cosi-expand-archive-TytmLfOp/Devel-Size-0.81/lib/Devel/Size.pm
No license file was found, but licenses were detected in source scan.

---
abstract: unknown
author:
  - unknown
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.3, 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: Devel-Size
no_index:
directory:
  - t
  - inc
requires:
  Test::More: '0'
  XSLoader: '0'
  perl: '5.005'
  version: '0.81'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
  /opt/cola/permits/1139281858_1614507638.07/0/perl-Devel-Size-0.81-2.el8-1.src.rpm-cosi-expand-archive-
  SIktz4mC/Devel-Size-0.81.tar.gz-cosi-expand-archive-TytmLfOp/Devel-Size-0.81/META.yml
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/*
   ***********************************************************************
   ppport.h -- Perl/Pollution/Portability Version 3.19

   Automatically created by Devel::PPPort running under perl 5.014000.

   Do NOT edit this file directly! -- Edit PPPort_pm.PL and the
   includes in parts/inc/ instead.

   Use 'perldoc ppport.h' to view the documentation below.

   ***********************************************************************

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.19

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help

--version show version

--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options
--compat-version=version  provide compatibility with Perl version
--cplusplus             accept C++ comments

--quiet                  don't output anything except fatal errors
--nodiag                 don't show diagnostics
--nohints                don't show hints
--nochanges              don't suggest changes
--nofilter               don't filter input files

--strip                  strip all script and doc functionality from
                         ppport.h

--list-provided          list provided API
--list-unsupported       list unsupported API
--api-info=name          show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl
installations back to 5.003, and has been tested up to 5.10.0.

=head1 OPTIONS

=head2 --help
Display a brief usage summary.

=head2 --version
Display the version of F<ppport.h>.

=head2 --patch=I<file>
If this option is given, a single patch file will be created if
any changes are suggested. This requires a working diff program
to be installed on your system.

=head2 --copy=I<suffix>
If this option is given, a copy of each file will be saved with
the given suffix that contains the suggested changes. This does
not require any external programs. Note that this does not
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.
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
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>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>
</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
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 using the CPAN Request Tracker at L<http://rt.cpan.org/>.

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) 2004-2009, 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;

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 { /^([a-z]+)|([\^\[\^]*)|([\^\[\^]*)|([a-z]*)$/  
    ? ( $1 => {  
        ($2                  ? ( base     => $2 ) : ()),
        ($3                  ? ( todo     => $3 ) : ()),
        (index($4, 'v') >= 0 ? ( varargs => 1  ) : ()),
        (index($4, 'p') >= 0 ? ( provided => 1  ) : ()),
        (index($4, 'n') >= 0 ? ( nothxarg => 1  ) : ()),
    })  
    : die "invalid spec: $_" } qw(  
AvFILLp|5.004050||p  
AvFILL|||n  
CPERLscope|5.005000||p  
CX_CURPAD_SAVE|||  
CX_CURPAD_SV|||  
CopFILEAV|5.006000||p  
CopFILEGV_set|5.006000||p  
CopFILEGV|5.006000||p  
CopFILE_set|5.006000||p  
CopFILE|5.006000||p  
CopSTASHPV_set|5.006000||p  
CopSTASHPV|5.006000||p  
CopSTASH_eq|5.006000||p  
CopSTASH_set|5.006000||p  
CopSTASH|5.006000||p  
CopyD|5.009002||p  
Copy|||  
CvPADLIST|||  
CvSTASH|||  
CvWEAKOUTSIDE|||  
DEFSV_set|5.011000||p  
DEFSV|5.004050||p)
PERL_INT_MIN|5.004000||p
PERL_LONG_MAX|5.004000||p
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</tbody>
</table>
if (exists $opt{'list-unsupported'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};
        print "$f ", '.'x(40-length($f)), ",", format_version($API{$f}{todo}), ",n";
    }
    exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($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) {

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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*srcce\s+Replace:\s+(\d+)\s+srcce\s*\$};
$replace{2} = $1 if $replace and m{^s*\#s*define\s+(?w+)(?!(^))\s+s+(\w+)};
$replace{2} = $1 if m{^s*$srcce\s+Replace\s+(\w+) with \(\w+\)\s+srcce\s*\$};
$replace{1} = $2 if m{^s*srcce\s+Replace \(\w+\) with \(\w+\)\s+srcce\s*\$};

if (m{^s*srcce\s+(\w+)(\s*,\s*)\s+depends\s+(?w+)(\s*,\s*)\s+srcce\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\(\_\(\w+\)\|\_GLOBAL\)\)?\$};
}
for (values %depends) {
  my %s;
  $s_ = [sort grep !$s{$_}++, @$_];
}

if (exists $opt{'api-info'}) {
  my $f;
  my $count = 0;
  my $match = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "^Q$opt{'api-info'}\EX\$";
  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";
      $info++;
    }
  }
}
if ($APIL{$f}{provided}) {
  my $todo = $APIL{$f}{todo} ? format_version($APIL{$f}{todo}) : "5.003";
  print "Support by $ppport provided back to perl-$todo.
"
  if ($need{$f}) {
    print "Support needs to be explicitly requested by NEED_$f.
"
  }
  if ($depends{$f}) {
    print "Depends on: ", join(', ', @{$depends{$f}}), ",
"
  }
  if ($hints{$f}) {
    print "
",
  }
  if ($warnings{$f}) {
    print "WARNING: 
",
  }
  $info++;
} else {
  print "No portability information available.
"
  $count++;
}
}$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 $APIL{$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 "$_ is not a file.\n" }
    } else { warn "$_ does not exist.\n"
      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$ppport\E$/i || !(/$srcext)$/i;
    push @ { $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
    warning("Skipping the following files (use --nofilter to avoid this):
|", join "
|", @out);
}
@files = @in;
}
die "No input files given!"
unless @files;

my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;

for $filename (@files) {
    unless (open IN, "<$filename") {
        warn "Unable to read from $filename: $!"
        next;
    }

info("Scanning $filename ...");

my $c = do { local $/; <IN> }

Close IN;
my %file = (orig => $c, changes => 0);

# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
  ( ^$HS*\$HS*include\b[\^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[\^\r\n]*)
  | ( ^$HS*\$HS*(?:define|elif|if(?:def)?)\b[^\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 ($c =~ /^\Q$match\E\b\s*/) {
    $file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
    $file{uses_Perl}{$func}++ if $c =~ /Perl_$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 =~ /$func\b/) {
        $file{uses_todo}{$func}++;
      }
    }
  }
}
}
}
while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
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}) {

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unless ($API{$func}{nothxarg}) {
    my $changes = ($c =~ s/\b(Perl_$func\s*)(?!aTHX_?)(\)|[^\s]*\})\s*/$1 . ($2 eq ')' ? 'aTHX' : 'aTHX_' . $2 )ge);
    if ($changes) {
        warning("Doesn't pass interpreter argument aTHX to Perl_$func");
        $file{changes} += $changes;
    }
}
else {
    warning("Uses Perl_$func instead of $func");
    $file{changes} += ($c =~ s/\bPerl_$func\s*\((?!aTHX_?)(\)|[^\s]*\})\s*/$func$1\)/g);
}

for $func (sort keys %{$file{uses_replace}}) {
    warning("Uses $func instead of $replace{$func}");
    $file{changes} += ($c =~ s/\b$func\s*/$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 "'sppport'\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";
    } elsif { # handle cases where NEED_$func is used
        $message = ""; # reset message
    } if ($message) {
        warning("$message");
    }
}
if ($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$HS+NEED_\w+)/$message/m)) {
            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\$func\ needs $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 = ";
 unless ($file{has_inc_ppport}) {
    diag("Needs to include \'$ppport\'");
    $pp .= qq(#include \"$ppport\")
}

 if ($pp) {
    $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*?)^/$1$pp/ms)
    || ($c =~ s/^\(?=\$HS*#$HS*include.\X$ppport\E)/\$pp/m)
    || ($c =~ s/^\(?=\$HS*#$HS*include.*XSUB.\x\s+\)?/\$1\$pp/m)
    || ($c =~ s/^/\$pp/);
  } else {
    if ($file{has_inc_ppport}) {
      diag("No need to include \'$ppport\'");
      $file{changes} += ($c =~ s/^\$HS*?#$HS*include.*\Q$ppport\E.*?\LF//m);
    }
    }

    # put back in our C comments
    my $ix;
    my $cppc = 0;
    my @ccom = @{$file{ccom}};
    for $ix (0 .. $#ccom) {
      if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
      } else {
        $c =~ s/$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}";
      } else {
        $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
      }
    }

}
if (-e $newfile) {
    error("$newfile' already exists, refusing to write copy of '$filename'");
} else {
    local *F;
    if (open F, ">$newfile") {
        info("Writing copy of '$filename' with changes to '$newfile'");
        print F $c;
        close F;
    } else {
        error("Cannot open '$newfile' for writing: $!");
    }
} else {
    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++ }

  system "$prog", $file, "$str";
  open F, " $tmp.$suf" or;
  print F $diff;
  close F;
}
$tmp = "$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 ($ver =~ /^\d+(?:\d+\d\d\d|\d)$/) {
        return ($1, $2, $3);
    }
    elsif ($ver !~ /^\d+\d\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.%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.

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exit 2;
}

sub strip
{
    my $self = do { local(@ARGV,$/)=($0); <> }
    my($copy) = $self =~ /=head\d+ \s+COPYRIGHT\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

END
exit 0;
}

__DATA__
*/

Found in path(s):
* /opt/cola/permits/1139281858_1614507638.07/0/perl-Devel-Size-0.81-2.el8-1.src.rpm-cosi-expand-archive-SlKtz4mC/Devel-Size-0.81.tar.gz-cosi-expand-archive-TytmLfOOp/Devel-Size-0.81/ppport.h
No license file was found, but licenses were detected in source scan.

License:        GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1139281858_1614507638.07/0/perl-Devel-Size-0.81-2.el8-1.src.rpm-cosi-expand-archive-SlKtz4mC/perl-Devel-Size.spec
No license file was found, but licenses were detected in source scan.

=head1 SYNOPTIS

use Devel::Size qw(size total_size);

my $size = size("A string");

my @foo = (1, 2, 3, 4, 5);
my $other_size = size(@foo);

my $foo = {a => [1, 2, 3],
          b => {a => [1, 3, 4]}
     ;
my $total_size = total_size($foo);

=head1 DESCRIPTION

This module figures out the real size of Perl variables in bytes, as accurately as possible.

=head1 Build and Install

To build and install this module, you need:

Perl
   a working C or C++ compiler
a make (or namke on Windows) utility

Follow these steps:

On Linux, Cygwin, or Unix:

    perl Makefile.PL
    make
    make test
    sudo make install

On Windows:

    perl Makefile.PL
    nmake
    nmake test
    nmake install

=head1 BUGREPORTS

Please report bugs to:

    http://rt.cpan.org/NoAuth/Bugs.html?Dist=Devel-Size

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=cut

Found in path(s):
* /opt/cola/permits/1139281858_1614507638.07/0/perl-Devel-Size-0.81-2.el8-1.src.rpm-cosi-expand-archive-Slkzt4mC/Devel-Size-0.81.tar.gz-cosi-expand-archive-TytmLJoP/Devel-Size-0.81/README

1.2175 debianutils 4.9.1

1.2175.1 Available under license :

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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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link a "work that uses the Library" with the Library to produce a
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of these things:
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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1.2185 prometheus-node-exporter 1.1.2

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lib/kdb/iprop.x
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lib/kdb/kdb_log.c
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=pod

=encoding utf8

=head1 NAME

json_pp - JSON::PP command utility

=head1 SYNOPSIS

  json_pp [-v] [-f from_format] [-t to_format] [-json_opt options_to_json1[.options_to_json2[,...]]]
json_pp converts between some input and output formats (one of them is JSON). This program was copied from L<json_xs> and modified.

The default input format is json and the default output format is json with pretty option.

Reads a data in the given format from STDIN.

Format types:

- json as JSON
- eval as Perl code

Writes a data in the given format to STDOUT.

- null no action.
- json as JSON
- dumper as Data::Dumper
options to JSON::PP

Acceptable options are:

ascii latin1 utf8 pretty indent space_before space_after relaxed canonical allow_nonref
allow_singlequote allow_barekey allow_bignum loose escape_slash

Multiple options must be separated by commas:

Right: -json_opt pretty,canonical

Wrong: -json_opt pretty -json_opt canonical

Verbose option, but currently no action in fact.

Prints version and exits.

EXAMPLES

$ perl -e 'print q{"foo":","bar":12345678900000000000000000}|' |
  json_pp -f json -t dumper -json_opt pretty,utf8,allow_bignum

$VAR1 = {
  'bar' => bless( {
    'value' => [ '0000000',
                 '0000000',
                 '5678900',
                 '1234'
               ],
    'sign' => '+',
  }, 'Math::BigInt' ),
  'foo' => "\x{3042}\x{3044}" );

$ perl -e 'print q{"foo":","bar":12345678900000000000000000}|' |
  json_pp -f json -t dumper -json_opt pretty

$VAR1 = {
'bar' => '1234567890000000000000000',
'foo' => "\x{e3}\x{81}\x{82}\x{e3}\x{81}\x{84}";

=head1 SEE ALSO

L<JSON::PP>, L<json_xs>

=head1 AUTHOR

Makamaka Hannyaharamitu, E<lt>makamaka[at]cpan.orgE<gt>

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abstract: 'JSON::XS compatible pure-Perl module.'
author:
  - 'Makamaka Hannyaharamitu, E<lt>makamaka[at]cpan.orgE<gt>'
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: JSON-PP
no_index:
directory:
  - t
  - inc
requires:
  Scalar::Util: '1.08'
Test::More: '0'
resources:
  repository: http://github.com/makamaka/JSON-PP
  version: '2.97001'
x_serialization_backend: 'CPAN::Meta::YAML version 0.012'

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    fAjFKsRV/JSON-PP-2.97001.tar.gz-cosi-expand-archive-Gf2lNg42/JSON-PP-2.97001/META.yml

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JSON::PP
===============

JSON::PP had been included in JSON distribution (CPAN module).
It was a perl core module in Perl 5.14.

===============

INSTALLATION

To install this module type the following:

perl Makefile.PL
  make
  make test
  make install

AUTHOR

Makamaka Hannyaharamitu, <makamaka[at]cpan.org>

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=pod

=head1 NAME

JSON::PP - JSON::XS compatible pure-Perl module.
SYNOPSIS

use JSON::PP;

# exported functions, they croak on error
# and expect/generate UTF-8

$utf8_encoded_json_text = encode_json $perl_hash_or_arrayref;
$perl_hash_or_arrayref  = decode_json $utf8_encoded_json_text;

# OO-interface

$json = JSON::PP->new->ascii->pretty->allow_nonref;

$pretty_printed_json_text = $json->encode( $perl_scalar );
$perl_scalar = $json->decode( $json_text );

# Note that JSON version 2.0 and above will automatically use
# JSON::XS or JSON::PP, so you should be able to just:

use JSON;

VERSION

2.97001

DESCRIPTION

JSON::PP is a pure perl JSON decoder/encoder (as of RFC4627, which
we know is obsolete but we still stick to; see below for an option
to support part of RFC7159), and (almost) compatible to much
faster L<JSON::XS> written by Marc Lehmann in C. JSON::PP works as
a fallback module when you use L<JSON> module without having
installed JSON::XS.

Because of this fallback feature of JSON.pm, JSON::PP tries not to
be more JavaScript-friendly than JSON::XS (i.e. not to escape extra
characters such as U+2028 and U+2029 nor support RFC7159/ECMA-404),
in order for you not to lose such JavaScript-friendliness silently
when you use JSON.pm and install JSON::XS for speed or by accident.
If you need JavaScript-friendly RFC7159-compliant pure perl module,
try L<JSON::Tiny>, which is derived from L<Mojolicious> web
framework and is also smaller and faster than JSON::PP.

JSON::PP has been in the Perl core since Perl 5.14, mainly for
CPAN toolchain modules to parse META.json.
=head1 FUNCTIONAL INTERFACE

This section is taken from JSON::XS almost verbatim. C<encode_json> and C<decode_json> are exported by default.

=head2 encode_json

$json_text = encode_json $perl_scalar

Converts the given Perl data structure to a UTF-8 encoded, binary string (that is, the string contains octets only). Croaks on error.

This function call is functionally identical to:

   $json_text = JSON::PP->new->utf8->encode($perl_scalar)

Except being faster.

=head2 decode_json

$perl_scalar = decode_json $json_text

The opposite of C<encode_json>: expects an UTF-8 (binary) string and tries to parse that as an UTF-8 encoded JSON text, returning the resulting reference. Croaks on error.

This function call is functionally identical to:

   $perl_scalar = JSON::PP->new->utf8->decode($json_text)

Except being faster.

=head2 JSON::PP::is_bool

$is_boolean = JSON::PP::is_bool($scalar)

Returns true if the passed scalar represents either JSON::PP::true or JSON::PP::false, two constants that act like C<1> and C<0> respectively and are also used to represent JSON C<true> and C<false> in Perl strings.

See L<MAPPING>, below, for more information on how JSON values are mapped to Perl.

=head1 OBJECT-ORIENTED INTERFACE

This section is also taken from JSON::XS.

The object oriented interface lets you configure your own encoding or
decoding style, within the limits of supported formats.

=head2 new

$json = JSON::PP->new

Creates a new JSON::PP object that can be used to de/encode JSON strings. All boolean flags described below are by default I<disabled>.

The mutators for flags all return the JSON::PP object again and thus calls can be chained:

my $json = JSON::PP->new->utf8->space_after->encode({a => [1,2]})
=> {"a": [1, 2]}

=head2 ascii

$json = $json->ascii([$enable])
$enabled = $json->get_ascii

If C<$enable> is true (or missing), then the C<encode> method will not generate characters outside the code range C<0..127> (which is ASCII). Any Unicode characters outside that range will be escaped using either a single \uXXXX (BMP characters) or a double \uHHHH\uLLLLL escape sequence, as per RFC4627. The resulting encoded JSON text can be treated as a native Unicode string, an ascii-encoded, latin1-encoded or UTF-8 encoded string, or any other superset of ASCII.

If C<$enable> is false, then the C<encode> method will not escape Unicode characters unless required by the JSON syntax or other flags. This results in a faster and more compact format.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

The main use for this flag is to produce JSON texts that can be transmitted over a 7-bit channel, as the encoded JSON texts will not contain any 8 bit characters.

JSON::PP->new->ascii(1)->encode([chr 0x10401])
=> ["\ud801\ude01"]

=head2 latin1

$json = $json->latin1([$enable])
$enabled = $json->get_latin1
If \$enable\ is true (or missing), then the \$encode\ method will encode the resulting JSON text as latin1 (or iso-8859-1), escaping any characters outside the code range \$0..255\$. The resulting string can be treated as a latin1-encoded JSON text or a native Unicode string. The \$decode\ method will not be affected in any way by this flag, as \$decode\ by default expects Unicode, which is a strict superset of latin1.

If \$enable\ is false, then the \$encode\ method will not escape Unicode characters unless required by the JSON syntax or other flags.

See also the section I<ENCODING/ CODESET FLAG NOTES> later in this document.

The main use for this flag is efficiently encoding binary data as JSON text, as most octets will not be escaped, resulting in a smaller encoded size. The disadvantage is that the resulting JSON text is encoded in latin1 (and must correctly be treated as such when storing and transferring), a rare encoding for JSON. It is therefore most useful when you want to store data structures known to contain binary data efficiently in files or databases, not when talking to other JSON encoders/decoders.

```
JSON::PP->new->latin1->encode ("\x{89}\x{abc}"
=> ["\x{89}\u0abc"]    # (perl syntax, U+abc escaped, U+89 not)
```

=head2 utf8

```
$json = $json->utf8([$enable])

$enabled = $json->get_utf8
```

If \$enable\ is true (or missing), then the \$encode\ method will encode the JSON result into UTF-8, as required by many protocols, while the \$decode\ method expects to be handled an UTF-8-encoded string. Please note that UTF-8-encoded strings do not contain any characters outside the range \$0..255\$, they are thus useful for bytewise/binary I/O. In future versions, enabling this option might enable autodetection of the UTF-16 and UTF-32 encoding families, as described in RFC4627.

If \$enable\ is false, then the \$encode\ method will return the JSON string as a (non-encoded) Unicode string, while \$decode\ expects thus a Unicode string. Any decoding or encoding (e.g. to UTF-8 or UTF-16) needs to be done yourself, e.g. using the Encode module.

See also the section I<ENCODING/ CODESET FLAG NOTES> later in this document.

Example, output UTF-16BE-encoded JSON:

```
use Encode;
$jsontext = encode "UTF-16BE", JSON::PP->new->encode ($object);
```
Example, decode UTF-32LE-encoded JSON:

```perl
use Encode;
$object = JSON::PP->new->decode (decode "UTF-32LE", $jsoncontext);

=head2 pretty

$json = $json->pretty($enable)

This enables (or disables) all of the C<indent>, C<space_before> and
C<space_after> (and in the future possibly more) flags in one call to
generate the most readable (or most compact) form possible.

=head2 indent

$json = $json->indent($enable)

$enabled = $json->get_indent

If C<$enable> is true (or missing), then the C<encode> method will use a multiline
format as output, putting every array member or object/hash key-value pair
into its own line, indenting them properly.

If C<$enable> is false, no newlines or indenting will be produced, and the
resulting JSON text is guaranteed not to contain any C<newlines>.

This setting has no effect when decoding JSON texts.

The default indent space length is three.
You can use C<indent_length> to change the length.

=head2 space_before

$json = $json->space_before($enable)

$enabled = $json->get_space_before

If C<$enable> is true (or missing), then the C<encode> method will add an extra
optional space before the C<:> separating keys from values in JSON objects.

If C<$enable> is false, then the C<encode> method will not add any extra
space at those places.

This setting has no effect when decoding JSON texts. You will also
most likely combine this setting with C<space_after>.

Example, space_before enabled, space_after and indent disabled:

```
{"key" :"value"}
=head2 space_after
$json = $json->space_after([$enable])
$enabled = $json->get_space_after
If C<$enable> is true (or missing), then the C<encode> method will add an extra
optional space after the C<:> separating keys from values in JSON objects
and extra whitespace after the C<,> separating key-value pairs and array
members.
If C<$enable> is false, then the C<encode> method will not add any extra
space at those places.
This setting has no effect when decoding JSON texts.
Example, space_before and indent disabled, space_after enabled:
{"key": "value"}
=head2 relaxed
$json = $json->relaxed([$enable])
$enabled = $json->get_relaxed
If C<$enable> is true (or missing), then C<decode> will accept some
extensions to normal JSON syntax (see below). C<encode> will not be
affected in anyway. I<Be aware that this option makes you accept invalid
JSON texts as if they were valid!>. I suggest only to use this option to
parse application-specific files written by humans (configuration files,
resource files etc.)
If C<$enable> is false (the default), then C<decode> will only accept
valid JSON texts.
Currently accepted extensions are:
=over 4
=item * list items can have an end-comma
JSON I<separates> array elements and key-value pairs with commas. This
can be annoying if you write JSON texts manually and want to be able to
quickly append elements, so this extension accepts comma at the end of

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such items not just between them:

```
[  1,  
  2, <- this comma not normally allowed 
]  
{  
  "k1": "v1",  
  "k2": "v2", <- this comma not normally allowed 
}
```

= item * shell-style '#'-comments

Whenever JSON allows whitespace, shell-style comments are additionally allowed. They are terminated by the first carriage-return or line-feed character, after which more white-space and comments are allowed.

```
[  1, # this comment not allowed in JSON  
    # neither this one... 
]  
```

= item * C-style multiple-line '/* */'-comments (JSON::PP only)

Whenever JSON allows whitespace, C-style multiple-line comments are additionally allowed. Everything between C</*> and C</*> is a comment, after which more white-space and comments are allowed.

```
[  1, /* this comment not allowed in JSON */  
    /* neither this one... */  
]  
```

=back

=back

=head2 canonical
$json = $json->canonical([$enable])

$enabled = $json->get_canonical

If C<$enable> is true (or missing), then the C<encode> method will output JSON objects by sorting their keys. This is adding a comparatively high overhead.

If C<$enable> is false, then the C<encode> method will output key-value pairs in the order Perl stores them (which will likely change between runs of the same script, and can change even within the same run from 5.18 onwards).

This option is useful if you want the same data structure to be encoded as the same JSON text (given the same overall settings). If it is disabled, the same hash might be encoded differently even if contains the same data, as key-value pairs have no inherent ordering in Perl.

This setting has no effect when decoding JSON texts.

This setting has currently no effect on tied hashes.

=head2 allow_nonref

$json = $json->allow_nonref([$enable])

$enabled = $json->get_allow_nonref

If C<$enable> is true (or missing), then the C<encode> method can convert a non-reference into its corresponding string, number or null JSON value, which is an extension to RFC4627. Likewise, C<decode> will accept those JSON values instead of croaking.

If C<$enable> is false, then the C<encode> method will croak if it isn't passed an arrayref or hashref, as JSON texts must either be an object or array. Likewise, C<decode> will croak if given something that is not a JSON object or array.

Example, encode a Perl scalar as JSON value with enabled C<allow_nonref>, resulting in an invalid JSON text:

    JSON::PP->new->allow_nonref->encode ("Hello, World!")
    => "Hello, World!"

=head2 allow_unknown

$json = $json->allow_unknown ([$enable])

$enabled = $json->get_allow_unknown

This setting has currently no effect on tied hashes.
If C<$enable> is true (or missing), then C<encode> will not throw an exception when it encounters values it cannot represent in JSON (for example, filehandles) but instead will encode a JSON C>null> value. Note that blessed objects are not included here and are handled separately by c<allow_blessed>.

If C<$enable> is false (the default), then C<encode> will throw an exception when it encounters anything it cannot encode as JSON.

This option does not affect C<decode> in any way, and it is recommended to leave it off unless you know your communications partner.

=head2 allow_blessed

$json = $json->allow_blessed([$enable])

$enabled = $json->get_allow_blessed

See L/Object Serialisation> for details.

If C<$enable> is true (or missing), then the C<encode> method will not barf when it encounters a blessed reference that it cannot convert otherwise. Instead, a JSON C>null> value is encoded instead of the object.

If C<$enable> is false (the default), then C<encode> will throw an exception when it encounters a blessed object that it cannot convert otherwise.

This setting has no effect on C<decode>.

=head2 convert_blessed

$json = $json->convert_blessed([$enable])

$enabled = $json->get_convert_blessed

See L/Object Serialisation> for details.

If C<$enable> is true (or missing), then C<encode>, upon encountering a blessed object, will check for the availability of the C<TO_JSON> method on the object's class. If found, it will be called in scalar context and the resulting scalar will be encoded instead of the object.

The C<TO_JSON> method may safely call die if it wants. If C<TO_JSON> returns other blessed objects, those will be handled in the same way. C<TO_JSON> must take care of not causing an endless recursion cycle (== crash) in this case. The name of C<TO_JSON> was chosen because other
methods called by the Perl core (== not by the user of the object) are usually in upper case letters and to avoid collisions with any C<to_json> function or method.

If C<$enable> is false (the default), then C<encode> will not consider this type of conversion.

This setting has no effect on C<decode>.

=head2 filter_json_object

$json = $json->filter_json_object([$coderef])

When C<$coderef> is specified, it will be called from C<decode> each time it decodes a JSON object. The only argument is a reference to the newly-created hash. If the code references returns a single scalar (which need not be a reference), this value (i.e. a copy of that scalar to avoid aliasing) is inserted into the deserialised data structure. If it returns an empty list (NOTE: I<not> C<undef>, which is a valid scalar), the original deserialised hash will be inserted. This setting can slow down decoding considerably.

When C<$coderef> is omitted or undefined, any existing callback will be removed and C<decode> will not change the deserialised hash in any way.

Example, convert all JSON objects into the integer 5:

my $js = JSON::PP->new->filter_json_object (sub { 5 });
# returns [5]
$js->decode (['{}']); # the given subroutine takes a hash reference.
# throw an exception because allow_nonref is not enabled
# so a lone 5 is not allowed.
$js->decode ({"a":1, "b":2");

=head2 filter_json_single_key_object

$json = $json->filter_json_single_key_object($key => $coderef)

Works remotely similar to C<filter_json_object>, but is only called for JSON objects having a single key named C<$key>.

This C<$coderef> is called before the one specified via C<filter_json_object>, if any. It gets passed the single value in the JSON object. If it returns a single value, it will be inserted into the data structure. If it returns nothing (not even C<undef> but the empty list), the callback from C<filter_json_object> will be called next, as if no single-key callback were specified.
If $coderef$ is omitted or undefined, the corresponding callback will be disabled. There can only ever be one callback for a given key.

As this callback gets called less often then the $filter_json_object$ one, decoding speed will not usually suffer as much. Therefore, single-key objects make excellent targets to serialise Perl objects into, especially as single-key JSON objects are as close to the type-tagged value concept as JSON gets (it's basically an ID/VALUE tuple). Of course, JSON does not support this in any way, so you need to make sure your data never looks like a serialised Perl hash.

Typical names for the single object key are $__class_whatever__$, or $__$dollars_are_rarely_used__$ or $ugly_brace_placement$, or even things like $__class_md5sum(classname)__$, to reduce the risk of clashing with real hashes.

Example, decode JSON objects of the form $<< \{ "__widget__" => <id> \} >>$ into the corresponding $<< \$WIDGET[<id>] >>$ object:

# return whatever is in $WIDGET[5]$
JSON::PP
->new
->filter_json_single_key_object ("__widget__" => sub {
   $WIDGET{ $_[0] }
})
->decode ('{"__widget__": 5'}

# this can be used with a TO_JSON method in some "widget" class
# for serialisation to json:
sub WidgetBase::TO_JSON {
   my ($self) = @_;
   unless ($self->{id}) {
      $self->{id} = ..get..some..id..;
      $WIDGET{$self->{id}} = $self;
   }
   { __widget__ => $self->{id} }
}

=json = $json->shrink([$enable])

$enabled = $json->get_shrink

If $enable$ is true (or missing), the string returned by $encode$ will
be shrunk (i.e. downgraded if possible).

The actual definition of what shrink does might change in future versions, but it will always try to save space at the expense of time.

If C<$enable> is false, then JSON::PP does nothing.

=head2 max_depth

$json = $json->max_depth($maximum_nesting_depth)

$max_depth = $json->get_max_depth

Sets the maximum nesting level (default C<512>) accepted while encoding or decoding. If a higher nesting level is detected in JSON text or a Perl data structure, then the encoder and decoder will stop and croak at that point.

Nesting level is defined by number of hash- or arrayrefs that the encoder needs to traverse to reach a given point or the number of C<{> or C<[> characters without their matching closing parenthesis crossed to reach a given character in a string.

Setting the maximum depth to one disallows any nesting, so that ensures that the object is only a single hash/object or array.

If no argument is given, the highest possible setting will be used, which is rarely useful.

See L<JSON::XS/SECURITY CONSIDERATIONS> for more info on why this is useful.

=head2 max_size

$json = $json->max_size($maximum_string_size)

$max_size = $json->get_max_size

Set the maximum length a JSON text may have (in bytes) where decoding is being attempted. The default is C<0>, meaning no limit. When C<decode> is called on a string that is longer then this many bytes, it will not attempt to decode the string but throw an exception. This setting has no effect on C<encode> (yet).

If no argument is given, the limit check will be deactivated (same as when C<0> is specified).

See L<JSON::XS/SECURITY CONSIDERATIONS> for more info on why this is useful.
=head2 encode

$json_text = $json->encode($perl_scalar)

Converts the given Perl value or data structure to its JSON representation. Croaks on error.

=head2 decode

$perl_scalar = $json->decode($json_text)

The opposite of C<encode>: expects a JSON text and tries to parse it, returning the resulting simple scalar or reference. Croaks on error.

=head2 decode_prefix

($perl_scalar, $characters) = $json->decode_prefix($json_text)

This works like the C<decode> method, but instead of raising an exception when there is trailing garbage after the first JSON object, it will silently stop parsing there and return the number of characters consumed so far.

This is useful if your JSON texts are not delimited by an outer protocol and you need to know where the JSON text ends.

JSON::PP->new->decode_prefix ("[1] the tail")
=> ([1], 3)

=head1 FLAGS FOR JSON::PP ONLY

The following flags and properties are for JSON::PP only. If you use any of these, you can't make your application run faster by replacing JSON::PP with JSON::XS. If you need these and also speed boost, try L<Cpanel::JSON::XS>, a fork of JSON::XS by Reini Urban, which supports some of these.

=head2 allow_singlequote

$json = $json->allow_singlequote($enable)
$enabled = $json->get_allow_singlequote

If C<$enable> is true (or missing), then C<decode> will accept invalid JSON texts that contain strings that begin and end with single quotation marks. C<encode> will not be affected in anyway. I<Be aware that this option makes you accept invalid JSON texts as if they were valid!>. I suggest only to use this option to parse application-specific files written by humans (configuration
files, resource files etc.)

If C<$enable> is false (the default), then C<decode> will only accept valid JSON texts.

```perl
$json->allow_singlequote->decode(qq|"foo":'bar'|);
$json->allow_singlequote->decode(qq|'foo':"bar"|);
$json->allow_singlequote->decode(qq|'foo':"bar"|);
```

=head2 allow_barekey

```perl
$json = $json->allow_barekey([$enable])
$enabled = $json->get_allow_barekey
```

If C<$enable> is true (or missing), then C<decode> will accept invalid JSON texts that contain JSON objects whose names don't begin and end with quotation marks. C<encode> will not be affected in anyway. I<Be aware that this option makes you accept invalid JSON texts as if they were valid!>. I suggest only to use this option to parse application-specific files written by humans (configuration files, resource files etc.)

If C<$enable> is false (the default), then C<decode> will only accept valid JSON texts.

```perl
$json->allow_barekey->decode(qq|{foo:"bar"}|);
```

=head2 allow_bignum

```perl
$json = $json->allow_bignum([$enable])
$enabled = $json->get_allow_bignum
```

If C<$enable> is true (or missing), then C<decode> will convert big integers Perl cannot handle as integer into L<Math::BigInt> objects and convert floating numbers into L<Math::BigFloat> objects. C<encode> will convert C<Math::BigInt> and C<Math::BigFloat> objects into JSON numbers.

```perl
$bigfloat = $json->decode('2.000000000000000000000000001');
print $json->encode($bigfloat);
# => 2.0000000000000000000000000001
```

See also L<Mapping>.

=head2 loose

```perl
$json = $json->loose([$enable])
```
$enabled = $json->get_loose

If C<$enabled> is true (or missing), then C<decode> will accept invalid JSON texts that contain unescaped [\x00-\x1f\x22\x5c] characters. C<encode> will not be affected in anyway.

I<Be aware that this option makes you accept invalid JSON texts as if they were valid!> I suggest only to use this option to parse application-specific files written by humans (configuration files, resource files etc.)

If C<$enabled> is false (the default), then C<decode> will only accept valid JSON texts.

$json->loose->decode(qq|
  ^\"abc
def^\"
|);

=head2 escape_slash

$json = $json->escape_slash([$enable])
$enabled = $json->get_escape_slash

If C<$enabled> is true (or missing), then C<encode> will explicitly escape I<slash> (solidus; C<U+002F>) characters to reduce the risk of XSS (cross site scripting) that may be caused by C<< \</script> >> in a JSON text, with the cost of bloating the size of JSON texts.

This option may be useful when you embed JSON in HTML, but embedding arbitrary JSON in HTML (by some HTML template toolkit or by string interpolation) is risky in general. You must escape necessary characters in correct order, depending on the context.

C<decode> will not be affected in anyway.

=head2 indent_length

$json = $json->indent_length($number_of_spaces)
$length = $json->get_indent_length

This option is only useful when you also enable C<indent> or C<prettify>.

JSON::XS indents with three spaces when you C<encode> (if requested by C<indent> or C<prettify>), and the number cannot be changed.

JSON::PP allows you to change/get the number of indent spaces with these mutator/accessor. The default number of spaces is three (the same as JSON::XS), and the acceptable range is from C<0> (no indentation; it'd be better to disable indentation by C<indent(0)> to C<15>.

=head2 sort_by
$json = $json->sort_by($code_ref)
$json = $json->sort_by($subroutine_name)

If you just want to sort keys (names) in JSON objects when you
C<encode>, enable C<canonical> option (see above) that allows you to
sort object keys alphabetically.

If you do need to sort non-alphabetically for whatever reasons,
you can give a code reference (or a subroutine name) to C<sort_by>,
then the argument will be passed to Perl’s C<sort> built-in function.

As the sorting is done in the JSON::PP scope, you usually need to
prepend C<JSON::PP::> to the subroutine name, and the special variables
C<$a> and C<$b> used in the subroutine used by C<sort> function.

Example:

my %ORDER = (id => 1, class => 2, name => 3);
$json->sort_by(sub {
    ($ORDER{$JSON::PP::a} // 999) <=> ($ORDER{$JSON::PP::b} // 999)
    or $JSON::PP::a cmp $JSON::PP::b
});
print $json->encode(['
    {name => 'CPAN', id => 1, href => 'http://cpan.org'}
]);
# 

Note that C<sort_by> affects all the plain hashes in the data structure.
If you need finer control, C<tie> necessary hashes with a module that
implements ordered hash (such as L<Hash::Ordered> and L<Tie::IxHash>).
C<canonical> and C<sort_by> don’t affect the key order in C<tie>’d
hashes.

use Hash::Ordered;
tie my %hash, 'Hash::Ordered',
    (name => 'CPAN', id => 1, href => 'http://cpan.org');
print $json->encode([%hash]);
# [{"name":"CPAN","id":1,"href":"http://cpan.org"}] # order is kept

=head1 INCREMENTAL PARSING

This section is also taken from JSON::XS.

In some cases, there is the need for incremental parsing of JSON
texts. While this module always has to keep both JSON text and resulting
Perl data structure in memory at one time, it does allow you to parse a
JSON stream incrementally. It does so by accumulating text until it has
a full JSON object, which it then can decode. This process is similar to using `decode_prefix` to see if a full JSON object is available, but is much more efficient (and can be implemented with a minimum of method calls).

JSON::PP will only attempt to parse the JSON text once it is sure it has enough text to get a decisive result, using a very simple but truly incremental parser. This means that it sometimes won't stop as early as the full parser, for example, it doesn't detect mismatched parentheses. The only thing it guarantees is that it starts decoding as soon as a syntactically valid JSON text has been seen. This means you need to set resource limits (e.g. `max_size`) to ensure the parser will stop parsing in the presence of syntax errors.

The following methods implement this incremental parser.

=head2 incr_parse

```perl
$json->incr_parse( [$string] ) # void context
$obj_or undef = $json->incr_parse( [$string] ) # scalar context
@obj_or_empty = $json->incr_parse( [$string] ) # list context
```

This is the central parsing function. It can both append new text and extract objects from the stream accumulated so far (both of these functions are optional).

If `String` is given, then this string is appended to the already existing JSON fragment stored in the `json` object.

After that, if the function is called in void context, it will simply return without doing anything further. This can be used to add more text in as many chunks as you want.

If the method is called in scalar context, then it will try to extract exactly one JSON object. If that is successful, it will return this object, otherwise it will return `undef`. If there is a parse error, this method will croak just as `decode` would do (one can then use `incr_skip` to skip the erroneous part). This is the most common way of using the method.

And finally, in list context, it will try to extract as many objects from the stream as it can find and return them, or the empty list otherwise. For this to work, there must be no separators (other than whitespace) between the JSON objects or arrays, instead they must be concatenated back-to-back. If an error occurs, an exception will be raised as in the scalar context case. Note that in this case, any
previously-parsed JSON texts will be lost.

Example: Parse some JSON arrays/objects in a given string and return them.

```perl
my @objs = JSON::PP->new->incr_parse ([5][7][1,2]);
```

=head2 incr_text

```
$lvalue_string = $json->incr_text
```

This method returns the currently stored JSON fragment as an lvalue, that is, you can manipulate it. This only works when a preceding call to C<incr_parse> in scalar context successfully returned an object. Under all other circumstances you must not call this function (I mean it. although in simple tests it might actually work, it will fail under real world conditions). As a special exception, you can also call this method before having parsed anything.

That means you can only use this function to look at or manipulate text before or after complete JSON objects, not while the parser is in the middle of parsing a JSON object.

This function is useful in two cases: a) finding the trailing text after a JSON object or b) parsing multiple JSON objects separated by non-JSON text (such as commas).

=head2 incr_skip

```
$json->incr_skip
```

This will reset the state of the incremental parser and will remove the parsed text from the input buffer so far. This is useful after C<incr_parse> died, in which case the input buffer and incremental parser state is left unchanged, to skip the text parsed so far and to reset the parse state.

The difference to C<incr_reset> is that only text until the parse error occurred is removed.

=head2 incr_reset

```
$json->incr_reset
```

This completely resets the incremental parser, that is, after this call, it will be as if the parser had never parsed anything.

This is useful if you want to repeatedly parse JSON objects and want to
ignore any trailing data, which means you have to reset the parser after each successful decode.

=head1 MAPPING

Most of this section is also taken from JSON::XS.

This section describes how JSON::PP maps Perl values to JSON values and vice versa. These mappings are designed to "do the right thing" in most circumstances automatically, preserving round-tripping characteristics (what you put in comes out as something equivalent).

For the more enlightened: note that in the following descriptions, lowercase I<perl> refers to the Perl interpreter, while uppercase I<Perl> refers to the abstract Perl language itself.

=head2 JSON -> PERL

=over 4

=item object

A JSON object becomes a reference to a hash in Perl. No ordering of object keys is preserved (JSON does not preserve object key ordering itself).

=item array

A JSON array becomes a reference to an array in Perl.

=item string

A JSON string becomes a string scalar in Perl - Unicode codepoints in JSON are represented by the same codepoints in the Perl string, so no manual decoding is necessary.

=item number

A JSON number becomes either an integer, numeric (floating point) or string scalar in perl, depending on its range and any fractional parts. On the Perl level, there is no difference between those as Perl handles all the conversion details, but an integer may take slightly less memory and might represent more values exactly than floating point numbers.

If the number consists of digits only, JSON::PP will try to represent it as an integer value. If that fails, it will try to represent it as a numeric (floating point) value if that is possible without loss of precision. Otherwise it will preserve the number as a string value (in which case you lose roundtripping ability, as the JSON number will be
Numbers containing a fractional or exponential part will always be represented as numeric (floating point) values, possibly at a loss of precision (in which case you might lose perfect roundtripping ability, but the JSON number will still be re-encoded as a JSON number).

Note that precision is not accuracy - binary floating point values cannot represent most decimal fractions exactly, and when converting from and to floating point, JSON::PP only guarantees precision up to but not including the least significant bit.

When C<allow_bignum> is enabled, big integer values and any numeric values will be converted into L<Math::BigInt> and L<Math::BigFloat> objects respectively, without becoming string scalars or losing precision.

=item true, false

These JSON atoms become C<JSON::PP::true> and C<JSON::PP::false>, respectively. They are overloaded to act almost exactly like the numbers C<1> and C<0>. You can check whether a scalar is a JSON boolean by using the C<JSON::PP::is_bool> function.

=item null

A JSON null atom becomes C<undef> in Perl.

=item shell-style comments (C<< # I<text> >>)

As a nonstandard extension to the JSON syntax that is enabled by the C<relaxed> setting, shell-style comments are allowed. They can start anywhere outside strings and go till the end of the line.

=head2 PERL -> JSON

The mapping from Perl to JSON is slightly more difficult, as Perl is a truly typeless language, so we can only guess which JSON type is meant by a Perl value.

=over 4

=item hash references

Perl hash references become JSON objects. As there is no inherent
ordering in hash keys (or JSON objects), they will usually be encoded in a pseudo-random order. JSON::PP can optionally sort the hash keys (determined by the I<canonical> flag and/or I<sort_by> property), so the same data structure will serialise to the same JSON text (given same settings and version of JSON::PP), but this incurs a runtime overhead and is only rarely useful, e.g. when you want to compare some JSON text against another for equality.

=item array references

Perl array references become JSON arrays.

=item other references

Other unblessed references are generally not allowed and will cause an exception to be thrown, except for references to the integers C<0> and C<1>, which get turned into C<false> and C<true> atoms in JSON. You can also use C<JSON::PP::false> and C<JSON::PP::true> to improve readability.

    to_json [0, JSON::PP::true]      # yields [false,true]

=item JSON::PP::true, JSON::PP::false

These special values become JSON true and JSON false values, respectively. You can also use C<\1> and C<\0> directly if you want.

=item JSON::PP::null

This special value becomes JSON null.

=item blessed objects

Blessed objects are not directly representable in JSON, but C<JSON::PP> allows various ways of handling objects. See L<OBJECT SERIALISATION>, below, for details.

=item simple scalars

Simple Perl scalars (any scalar that is not a reference) are the most difficult objects to encode: JSON::PP will encode undefined scalars as JSON C<null> values, scalars that have last been used in a string context before encoding as JSON strings, and anything else as number value:

    # dump as number
    encode_json [-3.0e17]                # yields [-3e+17]
    my $value = 5; encode_json [$value]  # yields [5]
# used as string, so dump as string
print $value;
encode_json [$value]         # yields ["5"]

# undef becomes null
encode_json [undef]           # yields [null]

You can force the type to be a string by stringifying it:

my $x = 3.1;  # some variable containing a number
"$x";            # stringified
$x .= "";  # another, more awkward way to stringify
print $x;      # perl does it for you, too, quite often
# (but for older perls)

You can force the type to be a number by numifying it:

my $x = "3";  # some variable containing a string
$x += 0;       # numify it, ensuring it will be dumped as a number
$x *= 1;       # same thing, the choice is yours.

You cannot currently force the type in other, less obscure, ways.

Note that numerical precision has the same meaning as under Perl (so binary to decimal conversion follows the same rules as in Perl, which can differ to other languages). Also, your perl interpreter might expose extensions to the floating point numbers of your platform, such as infinities or NaN's - these cannot be represented in JSON, and it is an error to pass those in.

JSON::PP (and JSON::XS) trusts what you pass to C<encode> method (or C<encode_json> function) is a clean, validated data structure with values that can be represented as valid JSON values only, because it's not from an external data source (as opposed to JSON texts you pass to C<decode> or C<decode_json>, which JSON::PP considers tainted and doesn't trust). As JSON::PP doesn't know exactly what you and consumers of your JSON texts want the unexpected values to be (you may want to convert them into null, or to stringify them with or without normalisation (string representation of infinities/NaN may vary depending on platforms), or to croak without conversion), you're advised to do what you and your consumers need before you encode, and also not to numify values that may start with values that look like a number (including infinities/NaN), without validating.

=back

=head2 OBJECT SERIALISATION
As for Perl objects, JSON::PP only supports a pure JSON representation (without the ability to deserialise the object automatically again).

=head3 SERIALISATION

What happens when C<JSON::PP> encounters a Perl object depends on the C<allow_blessed>, C<convert_blessed> and C<allow_bignum> settings, which are used in this order:

=over 4

=item 1. C<convert_blessed> is enabled and the object has a C<TO_JSON> method.

In this case, the C<TO_JSON> method of the object is invoked in scalar context. It must return a single scalar that can be directly encoded into JSON. This scalar replaces the object in the JSON text.

For example, the following C<TO_JSON> method will convert all L<URI> objects to JSON strings when serialised. The fact that these values originally were L<URI> objects is lost.

sub URI::TO_JSON {
    my ($uri) = @_;
    $uri->as_string
}

=item 2. C<allow_bignum> is enabled and the object is a C<Math::BigInt> or C<Math::BigFloat>.

The object will be serialised as a JSON number value.

=item 3. C<allow_blessed> is enabled.

The object will be serialised as a JSON null value.

=item 4. none of the above

If none of the settings are enabled or the respective methods are missing, C<JSON::PP> throws an exception.

=back

=head1 ENCODING/CODESET FLAG NOTES

This section is taken from JSON::XS.

The interested reader might have seen a number of flags that signify encodings or codesets - C<utf8>, C<latin1> and C<ascii>. There seems to be
some confusion on what these do, so here is a short comparison:

C<utf8> controls whether the JSON text created by C<encode> (and expected by C<decode>) is UTF-8 encoded or not, while C<latin1> and C<ascii> only control whether C<encode> escapes character values outside their respective codeset range. Neither of these flags conflict with each other, although some combinations make less sense than others.

Care has been taken to make all flags symmetrical with respect to C<encode> and C<decode>, that is, texts encoded with any combination of these flag values will be correctly decoded when the same flags are used - in general, if you use different flag settings while encoding vs. when decoding you likely have a bug somewhere.

Below comes a verbose discussion of these flags. Note that a "codeset" is simply an abstract set of character-codepoint pairs, while an encoding takes those codepoint numbers and I<encodes> them, in our case into octets. Unicode is (among other things) a codeset, UTF-8 is an encoding, and ISO-8859-1 (= latin 1) and ASCII are both codesets I<and> encodings at the same time, which can be confusing.

=over 4

=item C<utf8> flag disabled

When C<utf8> is disabled (the default), then C<encode>/C<decode> generate and expect Unicode strings, that is, characters with high ordinal Unicode values (> 255) will be encoded as such characters, and likewise such characters are decoded as-is, no changes to them will be done, except "(re-)interpreting" them as Unicode codepoints or Unicode characters, respectively (to Perl, these are the same thing in strings unless you do funny/weird/dumb stuff).

This is useful when you want to do the encoding yourself (e.g. when you want to have UTF-16 encoded JSON texts) or when some other layer does the encoding for you (for example, when printing to a terminal using a filehandle that transparently encodes to UTF-8 you certainly do NOT want to UTF-8 encode your data first and have Perl encode it another time).

=item C<utf8> flag enabled

If the C<utf8>-flag is enabled, C<encode>/C<decode> will encode all characters using the corresponding UTF-8 multi-byte sequence, and will expect your input strings to be encoded as UTF-8, that is, no "character" of the input string must have any value > 255, as UTF-8 does not allow that.

The C<utf8> flag therefore switches between two modes: disabled means you
will get a Unicode string in Perl, enabled means you get an UTF-8 encoded octet/binary string in Perl.

=item C<latin1> or C<ascii> flags enabled

With C<latin1> (or C<ascii>) enabled, C<encode> will escape characters with ordinal values > 255 (> 127 with C<ascii>) and encode the remaining characters as specified by the C<utf8> flag.

If C<utf8> is disabled, then the result is also correctly encoded in those character sets (as both are proper subsets of Unicode, meaning that a Unicode string with all character values < 256 is the same thing as an ISO-8859-1 string, and a Unicode string with all character values < 128 is the same thing as an ASCII string in Perl).

If C<utf8> is enabled, you still get a correct UTF-8-encoded string, regardless of these flags, just some more characters will be escaped using C<uXXXX> then before.

Note that ISO-8859-1-I<encoded> strings are not compatible with UTF-8 encoding, while ASCII-encoded strings are. That is because the ISO-8859-1 encoding is NOT a subset of UTF-8 (despite the ISO-8859-1 I<codeset> being a subset of Unicode), while ASCII is.

Surprisingly, C<decode> will ignore these flags and so treat all input values as governed by the C<utf8> flag. If it is disabled, this allows you to decode ISO-8859-1- and ASCII-encoded strings, as both strict subsets of Unicode. If it is enabled, you can correctly decode UTF-8 encoded strings.

So neither C<latin1> nor C<ascii> are incompatible with the C<utf8> flag - they only govern when the JSON output engine escapes a character or not.

The main use for C<latin1> is to relatively efficiently store binary data as JSON, at the expense of breaking compatibility with most JSON decoders.

The main use for C<ascii> is to force the output to not contain characters with values > 127, which means you can interpret the resulting string as UTF-8, ISO-8859-1, ASCII, KOI8-R or most about any character set and 8-bit-encoding, and still get the same data structure back. This is useful when your channel for JSON transfer is not 8-bit clean or the encoding might be mangled in between (e.g. in mail), and works because ASCII is a proper subset of most 8-bit and multibyte encodings in use in the world.

=back

=head1 SEE ALSO

The F<json_pp> command line utility for quick experiments.
L<JSON::XS>, L<Cpanel::JSON::XS>, and L<JSON::Tiny> for faster alternatives. L<JSON> and L<JSON::MaybeXS> for easy migration.

L<JSON::PP::Compat5005> and L<JSON::PP::Compat5006> for older perl users.

RFC4627 (L<http://www.ietf.org/rfc/rfc4627.txt>)

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1.2204 perl-text-parsewords 3.30-395.el8

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---

abstract: parse text into an array of tokens or array of arrays
author:
  - 'Alexandr Ciornii <alexchorny@gmail.com>'
build_requires:
  ExtUtils::MakeMaker: 0
  Scalar::Util: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.78, CPAN::Meta::Converter version 2.143240'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Text-ParseWords
no_index:
directory:
  - t
  - inc
requires:
  perl: 5.006
resources:
  repository: http://github.com/chorny/Text-ParseWords
version: 3.30

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=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 &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 &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

=item 0Z<>

a simple word

=item 1Z<>

multiple spaces are skipped because of our $delim

=item 2Z<>

use of quotes to include a space in a word

=item 3Z<>

use of a backslash to include a space in a word

=item 4Z<>

use of a backslash to remove the special meaning of a double-quote

=item 5Z<>

another simple word (note the lack of effect of the
backslashed double-quote)

=back

Replacing C<quotewords(\s+, 0, q{this   is...})>
with C<shellwords(q{this   is...})>
is a simpler way to accomplish the same thing.

=head1 SEE ALSO

L<Text::CSV> - for parsing CSV files

=head1 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@enirolink.org> for assuring me that a &nested_quotewords() would be useful, and to Jeff Friedl <jfrield@yahoo-inc.com> for telling me not to worry about error-checking (sort of-- you had to be there).

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1.2205 d-bus 1.12.8 9.el8

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/op/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/ModelReferenceProvider.java

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* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/DefaultModelDependencyProvider.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/DefaultModelProvider.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/property/FactoryMethodProvider.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/plugins/SchemaPluginsManager.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/Annotations.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/CodeGenGenericTypeNamingStrategy.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/configuration/ModelsConfiguration.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/property/bean/Accessors.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/property/field/FieldModelProperty.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/property/BaseModelProperty.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/CachingModelProvider.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/ResolvedTypes.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/property/bean/BeanModelProperty.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/property/bean/AccessorsProvider.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/property/bean/ParameterModelProperty.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/property/bean/AccessorsProvider.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/property/ModelPropertiesProvider.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/property/CachingModelPropertiesProvider.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/property/BeanPropertyNamingStrategy.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/property/bean/ParameterModelProperty.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/property/bean/AccessorsProvider.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/ModelDependencyProvider.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/property/PojoPropertyBuilderFactory.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/ModelProvider.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/CachingModelDependencyProvider.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/property/field/FieldProvider.java

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* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-
jar/springfox/documentation/schema/Types.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-
jar/springfox/documentation/schema/JacksonEnumTypeDeterminer.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-
jar/springfox/documentation/schema/property/OptimizedModelPropertiesProvider.java

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* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-
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* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-
  jar/springfox/documentation/schema/plugins/PropertyDiscriminatorBasedInheritancePlugin.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-
  jar/springfox/documentation/schema/JAXBPresentInClassPathCondition.java

1.2207 e2fsprogs 1.45.6-r0

1.2207.1 Available under license:

This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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This is a Makefile stub which handles the creation of BSD shared libraries.

In order to use this stub, the following makefile variables must be defined.

BSDLIB_VERSION = 1.0
BSDLIB_IMAGE = libce
BSDLIB_MYDIR = et
BSDLIB_INSTALL_DIR = $(SHLIBDIR)

all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) 
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-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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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
  Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 */
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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Theodore Ts'o
23-June-2007

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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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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
sxs-11.mit.edu:/pub/linux/packages/ext2fs/

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Gadi Oxman, August 1995

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.
Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-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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1.2222 auto-value 1.6.3rc1

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* /opt/ws_local/PERMITS_SQL/1057946904_1592388225.88/0/auto-value-1-6-3rc1-sources-jar/com/google/auto/value/extension/memoized/processor/ClassNames.java
* /opt/ws_local/PERMITS_SQL/1057946904_1592388225.88/0/auto-value-1-6-3rc1-sources-jar/com/google/auto/value/extension/memoized/processor/MemoizedValidator.java

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* /opt/ws_local/PERMITS_SQL/1057946904_1592388225.88/0/auto-value-1-6-3rc1-sources-jar/com/google/auto/value/processor/TypeSimplifier.java
* /opt/ws_local/PERMITS_SQL/1057946904_1592388225.88/0/auto-value-1-6-3rc1-sources-jar/com/google/auto/value/processor/AutoValueTemplateVars.java
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/**
 * Specifies that AutoValue should copy any annotations from the annotated element to the
 * generated class. This annotation supports classes and methods.
 * *
 * <p>The following annotations are excluded:
 * *
 * <ol>
* <li>AutoValue and its nested annotations;
* <li>any annotation appearing in the `{@link AutoValue.CopyAnnotations#exclude}` field;
* <li>any class annotation which is itself annotated with the `{@link java.lang.annotation.Inherited}` meta-annotation.
</ol>

* For historical reasons, annotations are always copied from an `{@code @AutoValue}` property method to its implementation, unless `{@code @CopyAnnotations}` is present and explicitly `{@link CopyAnnotations#exclude}` that annotation. But annotations are not copied from the `{@code @AutoValue}` class itself to its implementation unless `{@code @CopyAnnotations}` is present.

* If you want to copy annotations from your `{@literal @}AutoValue-annotated class's methods to the generated fields in the AutoValue_... implementation, annotate your method with `{@literal @}AutoValue.CopyAnnotations`. For example, if Example.java is:

```java
   @{code @}Immutable
   @{code @}AutoValue
   abstract class Example {
   @{code @}CopyAnnotations
   @{code @}SuppressWarnings("Immutable") // justification ...
   abstract Object getObject();
   // other details ...
   }</pre>

* Then AutoValue will generate the following AutoValue_Example.java:

```java
   final class AutoValue_Example extends Example {
   @{code @}SuppressWarnings("Immutable")
   private final Object object;
   
   @{code @}Override
   Object getObject() {
   return object;
   }
   
   // other details ...
   }</pre>

* When the `<i>type</i>` of an `{@code @AutoValue}` property method has annotations, those are part of the type, so they are always copied to the implementation of the method. `{@code @CopyAnnotations}` has no effect here. For example, suppose `{@code @Confidential}` is a `{@link java.lang.annotation.ElementType#TYPE_USE TYPE_USE TYPE_USE}` annotation:

```java
   @{code @}AutoValue
abstract class Person {
  static Person create(@Confidential String name, int id) {
    return new AutoValue_Person(name, id);
  }

  abstract @Confidential String name();
  abstract int id();
} //</pre>

Then the implementation of the @Confidential String method will also have return type
@Confidential String.

@author Carmi Grushko

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jar/com/google/auto/value/extension/AutoValueExtension.java

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1.2224 simpleclient-common 0.10.0
1.2224.1 Available under license :

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Manifest-Version: 1.0
Bnd-LastModified: 1611582585816
Build-Jdk: 1.8.0_275
Built-By: bbrazil
Bundle-Description: Common code used by various modules of the Simpleclient.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Java Simpleclient Common
Bundle-SymbolicName: io.prometheus.simpleclient_common
Bundle-Version: 0.10.0
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.client.exporter.common;uses:="io.prometheus.client";version="0.10.0"
Import-Package: io.prometheus.client;version="[0.10,1)"
Tool: Bnd-2.1.0.20130426-122213

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* /opt/cola/permits/1144886525_1620979830.65/0/simpleclient-common-0-10-0-jar/META-INF/MANIFEST.MF
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1.2225 cpuid v1.2.0
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1.2228 willf-bloom v2.0.3+incompatible

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
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org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following dependencies are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

If ALPN is used to negotiate HTTP/2 connections, then the following
distribution may be included in the distribution or downloaded when ALPN
module is selected. These artifacts replace/modify OpenJDK classes.
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http://openjdk.java.net/legal/gplv2+ce.html

* java.sun.security.ssl

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* org.ow2.asm:asm-commons
* org.ow2.asm:asm

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* org.apache.taglibs:taglibs-standard-spec
* org.apache.taglibs:taglibs-standard-impl

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following Apache Tomcat jars, all ASL2 licensed.

* org.mortbay.jasper:apache-jsp
* org.apache.tomcat:tomcat-jasper
* org.apache.tomcat:tomcat-juli
* org.apache.tomcat:tomcat-jsp-api
* org.apache.tomcat:tomcat-el-api
* org.apache.tomcat:tomcat-jasper-el
* org.apache.tomcat:tomcat-api
* org.apache.tomcat:tomcat-util-scan
* org.apache.tomcat:tomcat-util
* org.mortbay.jasper:apache-el
* org.apache.tomcat:tomcat-jasper-el
* org.apache.tomcat:tomcat-el-api

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* org.eclipse.jetty.toolchain:jetty-schemas

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Version: GnuPG v1.4.1 (Darwin)
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RUl00BymYpaETSqxt2oLFU=
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Mailing Address: 37 TwinHill St., New Manila Rolling Hills, Q.C., Philippines

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Version: GnuPG v1.4.4 (MingW32)

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Mailing Address: 4676 Admiralty Way, Suite 520
Marina Del Rey, CA 90292

Point of Contact:
Full name: Gordon King
E-Mail: gordon.king@simulalabs.com
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Name: Gordon King

Positions: Chief Operational Officer

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<table>
<thead>
<tr>
<th>Name</th>
<th>Date added</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simone Bordet</td>
<td>12 September 2006</td>
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lib gss mechs mech krb5 et/krb5 err.c
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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.
* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.  
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api
Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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Version: GnuPG v1.4.3 (GNU/Linux)

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Hash: SHA1

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E-Mail: thomas.becker00@googlemail.com
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Version: GnuPG v1.4.10 (GNU/Linux)
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=gAqN
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E-Mail: jstrachan@apache.org
Mailing Address: 1A Leigh Road, London, UK, N5 1ST
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Date: January 30th 2006
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Version: GnuPG v1.4.1 (Darwin)

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Version: GnuPG v1.4.4 (MingW32)

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Date:

Signature:

Name: Gordon King

Positions: Chief Operational Officer

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<table>
<thead>
<tr>
<th>Name</th>
<th>Date added</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simone Bordet</td>
<td>12 September 2006</td>
</tr>
</tbody>
</table>

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1.2266 zstd-jni 1.4.0 1
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1.2267 pluggy 0.9.0

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1.2269 opentracing-contrib-go-observer
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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
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modification of the work for the customer's own use and reverse
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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
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reproducing the executable from it. However, as a special exception,
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which the executable runs, unless that component itself accompanies
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Ty Coon, President of Vice

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- Wichert Akkerman, 2012/02/02

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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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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
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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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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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c-a-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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1.2273 goprotobuf v1.3.2

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1.2274 knadh-koanf v0.16.0

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1.2275 kerberos 1.13.2-12.el7_2

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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
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lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

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The complete snprintf package together with documentation is available from

   http://www.ijs.si/software/snprintf/ .

. The `grn' preprocessor, written by Barry Roitblat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.

The original package can be found at

    src/preproc/grn/gprint.h
    src/preproc/grn/hdb.cpp
    src/preproc/grn/hgraph.cpp
    src/preproc/grn/hpoint.cpp
    src/preproc/grn/main.cpp

. The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.
src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

src/include/DviChar.h
src/include/XFontName.h

src/libs/libxutil/DviChar.c
src/libs/libxutil/XFontName.c

Macro Packages
--------------

. The -mdoc macro set, using the BSD license.

tmac/doc.tmac
tmac/doc-old.tmac
tmac/doc-common
tmac/doc-ditroff
tmac/doc-nroff
tmac/doc-syms
tmac/groff_mdoc.man
The -me macro set, using the BSD license.

```
tmac/e.tmac
tmac/groff_me.man
doc/meintro.me
doc/meref.me
```

**Hyphenation Patterns**

-------------

The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of the TeX system written by Donald E. Knuth; the master file can be found at

```
ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex
```

It has been renamed for consistency, i.e., to make patterns available under the filenames `hyphen.<language>', e.g. `hyphen.de' or `hyphen.uk'.

See the file itself for a copyright notice.

The file `tmac/hyphen.fr' contains the same patterns as the file `frhyph.tex' (for TeX), which can be found at

```
http://dante.ctan.org/CTAN/language/hyphenation/frhyph.tex
```

The patterns have been converted to a format groff can understand.

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The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which can be found at

```
http://dante.ctan.org/CTAN/language/hyphenation/svhyph.tex
```

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The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyphn.tex' and `dehypht.tex' (for TeX), which can be found at

```
http://dante.ctan.org/CTAN/language/hyphenation/dehyphn.tex
http://dante.ctan.org/CTAN/language/hyphenation/dehypht.tex
```

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The file `tmac/hyphenex.det' is identical to the file `dehyphtex.tex', which can be found at

http://dante.ctan.org/CTAN/language/hyphenation/dehyphtex.tex

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The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive

http://dante.ctan.org/CTAN/macros/cstex/base/csplain.tar.gz

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  */opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-
  jar/springfox/documentation/swagger/readers/operation/SwaggerOperationModelsProvider.java
  */opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-
  jar/springfox/documentation/swagger/readers/operation/OperationNicknameIntoUniqueIdReader.java

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1.2306 rcrowley-go-metrics v0.0.0-
20181016184325-3113b8401b8a

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@end enumerate

@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo

@page
@heading Appendix: How to Apply These Terms to Your New Programs

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@end example

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@end example

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This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.
@end example

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@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

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@c End:

1.2308 x-sys v0.0.0-20200915084602-288bc346aa39

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endif

.include <bsd.sys.mk>

SRCDIR=${.CURDIR}
INCDIR=${.CURDIR:H}/include

KMOD=openzfs

.PATH:${SRCDIR}/avl "${SRCDIR}/lua "${SRCDIR}/nvpair "${SRCDIR}/os/freebsd/spl "${SRCDIR}/os/freebsd/zfs "${SRCDIR}/unicode "

---

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CFLAGS+= -I${.OBJDIR:H}/include
CFLAGS+= -I${INCDIR}
CFLAGS+= -I${INCDIR}/os/freebsd
CFLAGS+= -I${INCDIR}/os/freebsd/spl
CFLAGS+= -I${INCDIR}/os/freebsd/zfs
CFLAGS+= -I${SRCDIR}/zstd/include
CFLAGS+= -include ${INCDIR}/os/freebsd/spl/sys/ccompile.h
CFLAGS+= -D__KERNEL__ -DFREEBSD_NAMECACHE -DBUILDING_ZFS -D__BSD_VISIBLE=1 \
-DHAVE_UIOZEROCOPY -DWITHOUT_NETDUMP -D__KERNEL -D_SYS_CONDVAR_H_ \
-D_SYS_VMEM_H_ -DKDTRACE_HOOKS -DSMP -DHAVE_KSID -DCOMPAT_FREEBSD11

.if ${MACHINE_ARCH} == "amd64"
CFLAGS+= -DHAVE_AVX2 -DHAVE_AVX -D_x86_64 -DHAVE_SSE2 -DHAVE_AVX512F -DHAVE_SSSE3
endif

.if defined(WITH_DEBUG) && ${WITH_DEBUG} == "true"
CFLAGS+= -DZFS_DEBUG -g
endif

.if defined(WITH_INVARIANTS) && ${WITH_INVARIANTS} == "true"
CFLAGS+= -DINVARIANTS -DWITHINVARIANTS -DOPENSOLARIS_WITNESS
endif

.if defined(WITH_O0) && ${WITH_O0} == "true"
CFLAGS+= -O0
endif

else
CFLAGS += -DNDEBUG
endif

.if defined(WITH_VFS_DEBUG) && ${WITH_VFS_DEBUG} == "true"
# kernel must also be built with this option for this to work
CFLAGS+= -DDEBUG_VFS_LOCKS
endif

.if defined(WITH_GCOV) && ${WITH_GCOV} == "true"
CFLAGS+= -fprofile-arcs -ftest-coverage
endif

DEBUG_FLAGS=-g

.if ${MACHINE_ARCH} == "i386" || ${MACHINE_ARCH} == "powerpc" || \

${MACHINE_ARCH} == "arm"
CFLAGS+= -DBITS_PER_LONG=32
.else
CFLAGS+= -DBITS_PER_LONG=64
.endif

SRCS=vnode_if.h device_if.h bus_if.h

# avl
SRCS+=avl.c

#lua
SRCS+=lapi.c \n  lauxlib.c \n  lbaselib.c \n  lcode.c \n  lcompat.c \n  lcorolib.c \n  lctype.c \n  ldebug.c \n  ldo.c \n  lfunc.c \n  lgc.c \n  llex.c \n  lmem.c \n  lobject.c \n  lopcodes.c \n  lparser.c \n  lstate.c \n  lstring.c \n  lstrlib.c \n  ltable.c \n  ltablib.c \n  ltm.c \n  lvm.c \n  lzio.c

#nvpair
SRCS+=nvpair.c \n  fnvpair.c \n  nvpair_alloc_spl.c \n  nvpair_alloc_fixed.c

#os/freebsd/spl
SRCS+=acl_common.c \n  callib.c \n  list.c \n  sha256c.c
sha512.c.c \
spl_acl.c \n
spl_cmn_err.c \
spl_dirace.c \
spl_kmem.c \
spl_kstat.c \
spl_misc.c \
spl_policy.c 

spl_procs_list.c \
spl_string.c 

spl_sunddi.c 

spl_taskq.c \
spl_uio.c \
spl_vfs.c \n
spl_vm.c \nspl_zlib.c 

spl_zone.c 

.if ${MACHINE_ARCH} == "i386" || ${MACHINE_ARCH} == "powerpc" ||\n${MACHINE_ARCH} == "arm"
SRCS+= spl_atomic.c
.endif

#os/freebsd/zfs

SRCS+= abd_os.c \narc_os.c 
crypto_os.c \ndmu_os.c \nhkdf.c \n
kmod_core.c \nspa_os.c \nsysctl_os.c \nvdev_file.c \nvdev_geom.c \nvdev_label_os.c \nzfs_acl.c \nzfs_ctldir.c \nzfs_debug.c \nzfs_dir.c \nzfs_ioctl_compat.c \nzfs_ioctl_os.c \nzfs_racct.c \nzfs_vfsops.c \nzfs_vnops_os.c \nzfs_znode.c \nzio_crypt.c
zvol_os.c

#unicode
SRCS+=uconv.c \
u8_textprep.c

#zcommon
SRCS+=zfeature_common.c \
zfs_comutil.c \
zfs_deleg.c \
zfs_fletcher.c \
zfs_fletcher_avx512.c \
zfs_fletcher_intel.c \
zfs_fletcher_sse.c \
zfs_fletcher_superscalar.c \
zfs_fletcher_superscalar4.c \
zfs_namecheck.c \
zfs_prop.c \
zdpool_prop.c \
zdprop_common.c

#zfs
SRCS+=abd.c \
aggsum.c \
ar.c \
bkptr.c \
bplist.c \
bobj.c \
btree.c \
cityhash.c \
dbuf.c \
dbuf_stats.c \
bptree.c \
bqueue.c \
dataset_kstats.c \
ddt.c \
ddt_zap.c \
dmu.c \
dmu_diff.c \
dmu_object.c \
dmu_objset.c \
dmu_recv.c \
dmu_redact.c \
dmu_send.c \
dmu_traverse.c \
dmu_tx.c \
dmu_zfetch.c \
dnode.c \

dnode_sync.c
dsl_dataset.c
dsl_dealndist.c
dsl_deleg.c
dsl_bookmark.c
dsl_dir.c
dsl_crypt.c
dsl_destroy.c
dsl_pool.c
dsl_prop.c
dsl_scan.c
dsl_synctask.c
dsl_userhold.c
fm.c
gzip.c
lzjb.c
lz4.c
metaslab.c
mmp.c
multilist.c
objlist.c
pathname.c
range_tree.c
refcount.c
rrwlock.c
sa.c
sha256.c
skein_zfs.c
spa.c
spa_boot.c
spa_checkpoint.c
spa_config.c
spa_errlog.c
spa_history.c
spa_log_spacemap.c
spa_misc.c
spa_stats.c
space_map.c
space_refree.c
txg.c
uberclock.c
unique.c
vdev.c
vdev_cache.c
vdev_draid.c
vdev_draid_rand.c
vdev_indirect.c
vdev_indirect_births.c
vdev_indirect_mapping.c \n  vdev_initialize.c \n  vdev_label.c \n  vdev_mirror.c \n  vdev_missing.c \n  vdev_queue.c \n  vdev_rebuild.c \n  vdev RAIDZ_math.c \n  vdev RAIDZ_math_scalar.c \n  vdev_removal.c \n  vdev_root.c \n  vdev_trim.c \n  zap.c \n  zap_leaf.c \n  zap_micro.c \n  zcp.c \n  zcp_get.c \n  zcp_global.c \n  zcp_iter.c \n  zcp_set.c \n  zcp_synctask.c \n  zfeature.c \n  zfs_byteswap.c \n  zfs_file_os.c \n  zfs_fm.c \n  zfs_fuid.c \n  zfs_ioctl.c \n  zfs_log.c \n  zfs_onexit.c \n  zfs_quota.c \n  zfs_ratelimit.c \n  zfs_replay.c \n  zfs_rlock.c \n  zfs_sa.c \n  zfs_vnops.c \n  zil.c \n  zio.c \n  zio_checksum.c \n  zio_compress.c \n  zio_inject.c \n  zle.c \n  zrlock.c
zthr.c  
zvol.c

#zstd
SRCS+=zfs_zstd.c  
zstd.c

beforeinstall:
  .if ${MK_DEBUG_FILES} != "no"
  mtree -eu \n    -f /etc/mtree/BSD.debug.dist \n    -p ${DESTDIR}/usr/lib
  .endif

  .include <bsd.kmod.mk>

CFLAGS.gcc+= -Wno-pointer-to-int-cast

CFLAGS.lapi.c= -Wno-cast-qual
CFLAGS.lcompat.c= -Wno-cast-qual
CFLAGS.lobject.c= -Wno-cast-qual
CFLAGS.ltable.c= -Wno-cast-qual
CFLAGS.lvm.c= -Wno-cast-qual
CFLAGS.nvpair.c= -DHAVE_RPC_TYPES -Wno-cast-qual
CFLAGS.spl_string.c= -Wno-cast-qual
CFLAGS.spl_vm.c= -Wno-cast-qual
CFLAGS.spl_zlib.c= -Wno-cast-qual
CFLAGS.abd.c= -Wno-cast-qual
CFLAGS.zfs_log.c= -Wno-cast-qual
CFLAGS.zfs_vnops_os.c= -Wno-pointer-arith
CFLAGS.u8_textprep.c= -Wno-cast-qual
CFLAGS.zfs_fletcher.c= -Wno-cast-qual -Wno-pointer-arith
CFLAGS.zfs_fletcher_intel.c= -Wno-cast-qual -Wno-pointer-arith
CFLAGS.zfs_fletcher_sse.c= -Wno-cast-qual -Wno-pointer-arith
CFLAGS.zfs_fletcher_avx512.c= -Wno-cast-qual -Wno-pointer-arith
CFLAGS.zprop_common.c= -Wno-cast-qual
CFLAGS.ddt.c= -Wno-cast-qual
CFLAGS.dmu.c= -Wno-cast-qual
CFLAGS.dmu_traverse.c= -Wno-cast-qual
CFLAGS.dsl_dir.c= -Wno-cast-qual
CFLAGS.dsl_deadlist.c= -Wno-cast-qual
CFLAGS.dsl_prop.c= -Wno-cast-qual
CFLAGS.fm.c= -Wno-cast-qual
CFLAGS.lz4.c= -Wno-cast-qual
CFLAGS.spa.c= -Wno-cast-qual
CFLAGS.spa_misc.c= -Wno-cast-qual
CFLAGS.sysctl_os.c= -include ../../../zfs_config.h
CFLAGS.vdev_draid.c= -Wno-cast-qual
CFLAGS.vdev RAIDZ.c= -Wno-cast-qual
CFLAGS.vdev raidz_math.c= -Wno-cast-qual
CFLAGS.vdev raidz_math_scalar.c= -Wno-cast-qual
CFLAGS.vdev raidz_math_avx2.c= -Wno-cast-qual -Wno-duplicate-decl-specifier
CFLAGS.vdev raidz_math_avx512f.c= -Wno-cast-qual -Wno-duplicate-decl-specifier
CFLAGS.vdev raidz_math_sse2.c= -Wno-cast-qual -Wno-duplicate-decl-specifier
CFLAGS.zap_leaf.c= -Wno-cast-qual
CFLAGS.zap_micro.c= -Wno-cast-qual
CFLAGS.zcp.c= -Wno-cast-qual
CFLAGS.zfs_fm.c= -Wno-cast-qual
CFLAGS.zfs_ioctl.c= -Wno-cast-qual
CFLAGS.zil.c= -Wno-cast-qual
CFLAGS.zio.c= -Wno-cast-qual
CFLAGS.zrlock.c= -Wno-cast-qual
CFLAGS.zfs_zstd.c= -Wno-cast-qual -Wno-pointer-arith
CFLAGS.zstd.c= -fno-tree-vectorize -U__BMI__

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1.2311 dash 0.5.10.2 5
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1.2312 perl-sys-syslog 0.35-397.el8

1.2312.1 Available under license :

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Revision history for Sys-Syslog

0.35 -- 2016-09-01 -- Sebastien Aperghis-Tramoni (SAPER)

[Security]
- CPAN RT #116543: CVE-2016-1238: avoid loading optional modules from default . (Tony Cook). Patch rewrote to no longer depend upon @INC.
[Documentation]
- openlog() options: mention the version of Sys::Syslog they were added.
- Update HISTORY.
- Update some broken links.

[Distribution]
- Converted the Changes file to CPAN::Changes::Spec format.
- Improved a bit the readability of the ticket numbers.

[Tests]
- GitHub PR #4: use lexical instead of global filehandles (Alex Balhatchet).

0.34 -- 2016-05-06 -- Sebastien Aperghis-Tramoni (SAPER)

[Bugfixes]
- CPAN RT #105117: use %e where available, fall back to %d and a regexp
  where not (Markus Laker).
- CPAN RT #105152: the noeol option was ignored (Markus Laker).
- CPAN RT #98446: trailing new line with perror (Alexander Bluhm).
- CPAN RT #90538: facility from openlog() is not used (Anton Yuzhaninov).

[Portability]
- CPAN RT #104710: loadable library and perl binaries are mismatched,
  because of missing CCFLAGS (CHORNY, KMX).
- No longer inheriting from Exporter doesn't work before Perl 5.8.3.
- CPAN RT #90212: Support non-Windows platforms where syslog.h is not
  defined (Brian Fraser).
- CPAN RT #90224: setlocale() is not available everywhere, for example on
  Android (Brian Fraser).
- CPAN RT #90218: getproto*() and getserv*() functions are not available
  everywhere (Brian Fraser).

[Documentation]
- CPAN RT #102058: mention the repository in the documentation.

0.33 -- 2013-05-24 -- Sebastien Aperghis-Tramoni (SAPER)

[Bugfixes]
- CPAN RT #82531: Invalid usage of POSIX::_exit (Alexander Berger).

[Optimizations]
- No longer inherit from Exporter.
- Load Fcntl only when necessary.

[Documentation]
- Add links to other logging modules.
- CPAN RT #80398: Typo spotted by alfirth@gmail.com
- Typo spotted by David Steinbrunner.

[Test]
- CPAN RT #79683: Added delays in t/facilities-routing.t (Jerome Quelin).

0.32 -- 2012-09-14 -- Sebastien Aperghis-Tramoni (SAPER)

[Bugfixes]
- CPAN RT #69040: Don't modify @_ in syslog().
- Restore compatibility with Perl 5.6.0.

[Documentation]
- Perl RT #81858: Fix some spelling errors (Peter J. Acklam).

0.31 -- 2012-08-18 -- Sebastien Aperghis-Tramoni (SAPER)

[Bugfixes]
- Level 'emerg' could not be used since v0.29.
- Setting a message facility with syslog() was broken since v0.29 (Noel Butler).
- CPAN RT #69992: Make setlogsock() only use the requested mechanism, restoring way it worked in v0.27 and before (Niko Tyni).
- CPAN RT #69986: setlogsock() doesn't return undef on failure (Niko Tyni).
- CPAN RT #69997: Use the default UDP socket timeout on GNU/kFreeBSD as well, and lower it to a more sensible value (Niko Tyni).
- CPAN RT #75827: syslog() logging everything regardless of log mask when using using numeric LOG_* macros (Bryan Thale).

[Documentation]
- Don't highlight "the Rules of Sys::Syslog" from the Description.

[Test]
- Added t/facilities-routing.t

[Distribution]
- Add meta-information in Makefile.PL

0.30 -- 2012-08-15 -- Sebastien Aperghis-Tramoni (SAPER)

[Bugfixes]
- CPAN RT #69310: Avoid a POSIX::strftime issue on Windows (Michael Ludwig).
- CPAN RT #77577: Build on Haiku-OS (Tony Cook).
- CPAN RT #77578: Silence a compilation warning (Tony Cook).
- CPAN RT #78044: Don't call getservbyname() when the port is specified (Chan Wilson).

[Tests]
- t/syslog.t no longer needs to chdir under PERL_CORE.

0.29 -- 2011-04-18 -- Sebastien Aperghis-Tramoni (SAPER) #PerlQA2011

[Bugfixes]
- CPAN RT #55215: Sys::Syslog might call exit which triggers DESTROY (Alexander Berger).
- CPAN RT #55151: Allow temporary facility with native mechanism (Tim Jenkins).
- CPAN RT #50928: Convert Win32 files to Unix EOLs (Steve Hay).
- CPAN RT #50534: Unwanted space at the end of syslog message (Eugene V. Lyubimkin).
- CPAN RT #49877: Options not reset after closelog() (Herbert Brezina).
- CPAN RT #48386: Add Win32::EventLog as a prerequisite (kmx and Laurent Dami).

[New features]
- CPAN RT #50534: Added options noeol and nonul.

[Distribution]
- Set INSTALLDIRS to "site" when installed on Perl 5.11+

0.28 -- 2011-04-16 -- Sebastien Aperghis-Tramoni (SAPER) #PerlQA2011

[Bugfixes]
- CPAN RT #56084: Reset connection tracking vars (Vladimir Marek).
- CPAN RT #56826: Avoid memory corruption when closelog() is called twice (Andreas Jaekel).
- CPAN RT #64287: Make strftime() Windows-compatible (Dave Stafford).

[New features]
- New API for setlogsock(), in order to allow the setting of new options. Thanks to Jake Scott for the idea.

[Portability]
- CPAN RT #44410: Provide fallback macros in Syslog.xs in order to compile on Novell Netware.

[Internal changes]
- Modify can_load() so it can print the warnings if desired.

[Tests]
- In blead, the distribution was moved from ext/Sys/Syslog to ext/Sys-Syslog. t/constants.t had to be fixed (Vincent Pit).
- CPAN RT #53317: In core, Sys-Syslog was moved to cpan/, thus making
t//constants.t unable to find macros.all (David Mitchell).
- CPAN RT #64716: Skip t/data-validation.t if the available version of
POE::Component::Server::Syslog is too old.

[Distribution]
- Bleadperl no longer require an empty MAN3PODS (Nicholas Clark).
- Removed unneeded modules in Makefile.PL (Nicholas Clark).

[Documentation]
- Recreated Sys::Syslog history from the unified git repository.
- Added a section to list the matching Perl and Sys::Syslog version.
- CPAN RT #49859: Removed a dead link (Leon Brocard).

0.27 -- 2008-09-21 -- Sebastien Aperghis-Tramoni (SAPER)

[Bugfixes]
- Fixed compilation on Win32, thanks to Serguei Trouchelle. Also added
  stubs so calling the XS functions will never fail.

[Tests]
- t/pod.t now also uses Pod::Checker.

0.26 -- 2008-06-16 -- Sebastien Aperghis-Tramoni (SAPER)

[Bugfixes]
- Make Sys::Syslog works with Perl 5.10.0 (because of
  ExtUtils::Constant::ProxySubs).

[Internal changes]
- setlogsock() is now a little more strict about its arguments.

0.25 -- 2008-05-17 -- Sebastien Aperghis-Tramoni (SAPER)

[Bugfixes]
- CPAN RT #34691: Fixed an incorrect call to sysopen() which prevented
  Sys::Syslog from working on some Solaris systems. Thanks to Paul Townsend.
- CPAN RT #34753: Fixed a slowness introduced in v0.19 (which was to work
  around OSX syslog own slowness). Thanks to Alex Efros.
- CPAN RT #35952: Fixed a bug with the "nofatal" option.
- CPAN RT #35189: Fixed a bug in xlate().
- Fixed build on Win32, thanks to Adam Kennedy.

[New features]
- setlogsock() now interprets the second argument as the hostname for
network mechanisms.

[Test]
- Improved t/pod.t with Pod::Checker.

[Distribution]
- Add AUTHOR to WriteMakefile() in order to fix the META.yml generated by ExtUtils::MakeMaker.

0.24 -- 2007-12-31 -- Sebastien Aperghis-Tramoni (SAPER)

[Bugfixes]
- CPANT RT #32001: Skip the setlogsock('stream') tests when /dev/log is unavailable (Brendan O'Dea).

0.23 -- 2007-11-12 -- Sebastien Aperghis-Tramoni (SAPER)

[Bugfixes]
- Fixed a too liberal test in the "pipe" mechanism, thanks to Jan Dubois.

[Test]
- Better handling of Perl 5.005, thanks to CPAN Tester Slaven Rezic.

[Distribution]
- fallback/syslog.h was missing from MANIFEST (thanks to CPAN Tester Matthew Musgrove).

0.22 -- 2007-11-08 -- Sebastien Aperghis-Tramoni (SAPER)

[Bugfixes]
- CPAN RT #29875: Added workaround SpamAssassin overzealous logging features.

[New features]
- Added support for PERROR option.
- Support for SYSLOG on z/OS, thanks to Chun Bing Ge.

[Internal changes]
- Prevent $@ from being visible outside the module, in trying to address the problem reported in CPAN RT #29875.

[Documentation]
- CPAN RT #29451: Add Copyright notice. Thanks to Allison Randal for her advice.
- New speaking about Win32 API instead of Win32 operating system.
0.21 -- 2007-09-14 -- Sebastien Aperghis-Tramoni (SAPER)

[Bugfixes]
- setlogsock(eventlog) returned true even when it shouldn't have.
- CPAN RT #24431: Added workaround for Mac OS X syslogd.

[New features]
- Added "pipe" mechanism in order to support HP-UX named pipe. Thanks to H.Merijn Brand and PROCURA.

[Internal changes]
- Sys::Syslog works again on Perl 5.005, thanks to Nicholas Clark.

0.20 -- 2007-09-05 -- Sebastien Aperghis-Tramoni (SAPER)

[Documentation]
- Added README.win32 which was missing in MANIFEST.

0.19 -- 2007-09-05 -- Sebastien Aperghis-Tramoni (SAPER)

[Bugfixes]
- CPAN RT #20635: Fix tests to avoid problems related to the "stream" mechanism which occurred on Debian and Cygwin.
- CPAN RT #20780: Facility could not be temporarily changed. Also fixes the syslog() before openlog() bug.
- CPAN RT #21333: Makefile.PL now creates a typemap for Perl 5.6.1
- CPAN RT #21516: disconnect_log() now correctly calls closelog_xs().
- CPAN RT #21866: Silence warnings in openlog().
- CPAN RT #25488: Silence warnings in disconnect_log(). via syslog().
- Rewrote the constants generation code in order to provide fallback value for non-standard macros.
- Mark Blackman and Edmund von der Burg identified and fixed the random failures appearing on OSX, caused by a UDP timeout.

[New features]
- Added Win32 event log support thanks to Yves Orton.
- Added new macros from modern BSD and IRIX.
- Each non-standard macro now fall backs to a standard macro.

[Internal changes]
- Merged changes from Jerry D. Hedden to use ppport.h only when not built from core distribution (blead@30657).

[Tests]
- t/syslog.t now generates a more detailed TAP output.
- Merged change blead@29176: suppress taint mode from t/constants.t
- Added regression tests for CPAN RT #21866 and #25488.

[Documentation]
- CPAN RT #26097: man pages were not installed.
- Added the Sys::Syslog Rules.
- Added example script eg/syslog.pl

0.18 -- 2006-08-28 -- Sebastien Aperghis-Tramoni (SAPER)

[Bugfixes]
- Rewrote the way the default identifiant is constructed.

[Tests]
- CPAN RT #20946: Removed the console mechanism from the main test loop because writing to the console hangs on several systems.

[Documentation]
- Added a note discouraging the use of setlogsock().

0.17 -- 2006-07-23 -- Sebastien Aperghis-Tramoni (SAPER)

[Bugfixes]
- CPAN RT #20622, #20164: Fixed path handling in connect_unix().

[Internal changes]
- Renamed some variables ($that is not a valid name), and removed some dead code.
- Actually added the macros from Mac OS X that were announced in the 0.14 version.

[Documentation]
- CPAN RT #20545: Rewrote the documentation about setlogsock().

0.16 -- 2006-06-20 -- Sebastien Aperghis-Tramoni (SAPER)

[Bugfixes]
- Perl RT #20557: Save errno before trying to connect.

[New features]
- Perl RT #35406: Applied the patch proposed by Keisuke Hirata for a more lax handling of "stream" or "unix" path.
- Now try the "native" mechanism first.

[Tests]
- Silence warnings generated by t/syslog.t in Perl 5.8.8 and later.

[Documentation]
- Added documentation about the "native" mechanism.
- Now indicates whether tickets are from CPAN or Perl RT.

0.15 -- 2006-06-10 -- Sebastien Aperghis-Tramoni (SAPER)

[New features]
- CPAN RT #17316: Added a "nofatal" option to openlog().
- Sys::Syslog warnings can now be controlled by the warnings category
  of the same name.
- Added support for using the native C syslog(3) functions.

[Internal changes]
- Removed most "our" variables.
- Improved readability by removing cargo-cult brackets and parentheses.

0.14 -- 2006-05-25 -- Sebastien Aperghis-Tramoni (SAPER)

[Bugfixes]
- CPAN RT #19259, #17518: Now allowing all levels and facilities.

[Internal changes]
- Removed useless "&".
- Improved readability by adding empty lines and reworking the code
  here and there.
- Added new macros from Mac OS X.

[Tests]
- Added more tests in order to increase coverage.

[Documentation]
- CPAN RT #19085: Corrected errors in the documentation for setlogmask().
- Added several links to online manual pages, RFCs and articles.
- Corrected minor things in Changes.

0.13 -- 2006-01-11 -- Sebastien Aperghis-Tramoni (SAPER)

[Internal changes]
- Applied Gisle Aas' patch for a better handling of error messages,
  then optimized it.
- Merged blead@26768: If getservbyname fails tell what service the lookup
  attempt tried to use.
- Merged blead@26769: suppress Sys::Hostname usage and directly use
INADDR_LOOPBACK.
- Merged blead@26772: $host needs to stay in case the user sets it.
- Merged blead@26773: check that $syslog_path is a socket.

[Test]
- CPAN RT #16980: Sys::Syslog blows up rather spectacularly on Solaris.
  Corrected by previous patches.
- CPAN RT #16974: Failed test in t/podspell. This test is now skipped.

0.12 -- 2006-01-07 -- Sebastien Aperghis-Tramoni (SAPER)

[Documentation]
- Added a link to an article about Sys::Syslog.

[Test]
- Merged some modifications from bleadperl.
- Removed optional dependency on Test::Exception.
- Improved t/constant.t
- Rewrote t/constants.t because future versions of ExtUtils::Constant will prevent the constant() function from being directly called.

0.11 -- 2005-12-28 -- Sebastien Aperghis-Tramoni (SAPER)

[Bugfixes]
- setlogmask() now behaves like its C counterpart.

[New features]
- Can now export and use the macros.
- Support for three Exporter tags.
- XSLoader is now optional.

[Internal changes]
- No longer "use"s Sys::Hostname as it was "require"d where needed.
- CPAN RT #16604: Use local timestamp.

[Distribution]
- Merged blead@26343: Fix realclean target.

[Documentation]
- Improved documentation.

[Test]
- Added more tests to t/syslog.t in order to increase code coverage.

0.10 -- 2005-12-08 -- Sebastien Aperghis-Tramoni (SAPER)
[Documentation]
- Improved documentation.

[Test]
- Added -T to t/syslog.t
- Added t/constants.t to check the macros.
- Added t/distchk.t, t/podspell.t, t/podcover.t, t/portfs.t

0.09 -- 2005-12-06 -- Sebastien Aperghis-Tramoni (SAPER)

[Bugfixes]
- Escape percent signs in error message when interpolating %m
  (Ronald J. Kimball).

[Internal changes]
- Now setlogsock() really croak(), as documented.

[Distribution]
- CPANized from blead@26281.
- Modified Makefile.PL so that ExtUtils::Constant is conditionally used,
  with a fallback in the case it's not available.
- Bumped version to 0.09

[Documentation]
- Added support and license information.

[Test]
- Rewrote and ported t/syslog.t to Test::More

0.08 -- 2005-12-03

[New features]
- syslog() can now accept a message without printf() escapes and arguments
  (Gisle Aas).

[Documentation]
- Document that openlog() might die (Rafael Garcia-Suarez).

0.07 -- 2005-06-27

[Internal changes]
- Use XSLoader instead of DynaLoader (Alexey Tourbin).

[Documentation]
- Shows the correct way to use syslog() (Dave Mitchell).

0.06 -- 2004-12-14

[New features]
- Allow escaping %m as %%%%m in Sys::Syslog format strings (Rafael Garcia-Suarez, suggested by Joshua Richardson and Yitzchak Scott-Thoennes).

[Internal changes]
- Make Sys::Syslog stricture-compliant (Rafael Garcia-Suarez).

[Documentation]
- Document $Sys::Syslog::host (Jay Hannah).

0.05 -- 2004-04-06

[New features]
- IRIX wants setlogsock("stream") (Jarkko Hietaniemi).
- Allow syslog() to use numeric constants in addition to strings for facility names and priorities (Jim Schneider).

[Documentation]
- Remind users to always use openlog() (Jarkko Hietaniemi).

0.04 -- 2003-08-13

[Bugfixes]
- Do not use "udp" on some platforms (Slaven Rezic).
- Perl RT #18180: Fixed a problem with Sys::Syslog on Solaris 8 with perl 5.8.0 (Joost van Baal).
- Fixed some warnings (Jarkko Hietaniemi).
- Better error messages (Jari Aalto).

0.03 -- 2002-03-23

[Bugfixes]
- Fixed copious warnings from Sys::Syslog (Andreas Knig).

[New features]
- Failover to different communication modes by Nick Williams.

0.02 -- 2001-06-04
[Bugfixes]
- /dev/console may not be writable in Syslog.pm (Ask Bjoern Hansen).
- Fixed for accidental arguments to autoloaded constants (Gurusamy Sarathy).
- Make _PATH_LOG() return "" if not available (Gurusamy Sarathy).
- Forked child may not exit correctly if it failed to open /dev/console
  (Graham Barr).
- More checking in case someone has broken their services or protocol
  databases (Robert Spier).
- xlate() doesn't handle LOG_EMERG (Mark J. Reed).

[Internal changes]
- Code for constant(s) regenerated by Nicholas Clark.

[Test]
- Added syslog.t to check if Sys::Syslog works (Tom Hughes).

0.01 -- 2000-02-04 -- Gurusamy Sarathy

[New features]
- Sys::Syslog now uses XSUBs to access facilities from syslog.h so it no
  longer requires syslog.ph to exist. Thanks to Tom Hughes. As a consequence,
  Sys::Syslog moved from lib/ to ext/.

perl 5.004_03 -- 1997-09-05 -- Tim Bunce

[Bugfixes]
- Handle missing _PATH_LOG (Ulrich Pfeifer).

perl 5.004_02 -- 1997-08-07 -- Tim Bunce

[New features]
- UNIX domain sockets support, by Sean Robinson and Tim Bunce.

perl 5.004_01 -- 1997-06-11 -- Tim Bunce

[Bugfixes]
- Allows FQDN (even allowing "_ ").

perl 5.004 -- 1997-05-15 -- Chip Salzenberg

[Bugfixes]
- Fixed $whoami calculation (Marc Rouleau).
- Allows hyphens in hostnames (Jerome Abela).
perl 5.003_01 -- 1996-06-18 -- Charles Bailey

[Internal changes]
- Moved call to hostname() into connect() function, and eliminated domain suffix.

[Documentation]
- Correct documentation for calling sequence of syslog() function.

perl 5.002_01 -- 1996-03-25 -- Charles Bailey

[Internal changes]
- Use Sys::Hostname::hostname() only when necessary.

perl 5.002 -- 1996-02-29 -- Larry Wall

[Internal changes]
- Use constants from Socket.pm (Andy Dougherty).
- Connect to the name given by Sys::Hostname::hostname() instead of "localhost" (Andy Dougherty).

[Documentation]
- Added documentation, thanks to Hallvard B Furuseth.

perl 5.000 -- 1994-10-17 -- Larry Wall

[Distribution]
- Converted from lib/syslog.pl to lib/Sys/Syslog.pm

Found in path(s):
* /opt/cola/permits/1139282470_1614507691.42/0/perl-Sys-Syslog-0.35-397.el8-1.src.rpm-cosi-expand-archive-mqLq8xN2/Sys-Syslog-0.35.tar.gz-cosi-expand-archive-WencJHN3/Sys-Syslog-0.35/Changes

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abstract: 'Perl interface to the UNIX syslog(3) calls'

author:
- 'Sebastien Aperghis-Tramoni <sebastien@aperghis.net>''

build_requires:
- ExtUtils::MakeMaker: '0'

configure_requires:
- ExtUtils::MakeMaker: '0'

dynamic_config: 1
=head1 NAME

Sys::Syslog - Perl interface to the UNIX syslog(3) calls

=head1 VERSION

This is the documentation of version 0.35

=head1 SYNOPSIS

use Sys::Syslog;       # all except setlogsock()
use Sys::Syslog qw(:standard :macros);  # standard functions & macros

openlog($ident, $logopt, $facility);  # don't forget this
syslog($priority, $format, @args);
$oldmask = setlogmask($mask_priority);
closelog();

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=head1 DESCRIPTION

C<Sys::Syslog> is an interface to the UNIX C<syslog(3)> program. Call C<syslog()> with a string priority and a list of C<printf()> args just like C<syslog(3)>.

=head1 EXPORTS

C<Sys::Syslog> exports the following C<Exporter> tags:

=over 4
=item *
C<:standard> exports the standard C<syslog(3)> functions:

  openlog closelog setlogmask syslog

=item *
C<:extended> exports the Perl specific functions for C<syslog(3)>:

  setlogsock

=item *
C<:macros> exports the symbols corresponding to most of your C<syslog(3)> macros and the C<LOG_UPTO()> and C<LOG_MASK()> functions. See L<"CONSTANTS"> for the supported constants and their meaning.

=back

By default, C<Sys::Syslog> exports the symbols from the C<:standard> tag.

=head1 FUNCTIONS

=over 4
=item B<openlog($ident, $logopt, $facility)>

Opens the syslog.
C<$ident> is prepended to every message. C<$logopt> contains zero or more of the options detailed below. C<$facility> specifies the part of the system to report about, for example C<LOG_USER> or C<LOG_LOCAL0>: see L<"Facilities"> for a list of well-known facilities, and your C<syslog(3)> documentation for the facilities available in your system.
Check L"SEE ALSO" for useful links. Facility can be given as a string or a numeric macro.

This function will croak if it can't connect to the syslog daemon.

Note that C<openlog()> now takes three arguments, just like C<openlog(3)>.

B<You should use C<openlog()> before calling C<syslog()>.

B<Options>

=over 4

=item *

C<cons> - This option is ignored, since the failover mechanism will drop down to the console automatically if all other media fail.

=item *

C<ndelay> - Open the connection immediately (normally, the connection is opened when the first message is logged).

=item *

C<noeol> - When set to true, no end of line character (C\n) will be appended to the message. This can be useful for some syslog daemons. Added in C<Sys::Syslog> 0.29.

=item *

C<nofatal> - When set to true, C<openlog()> and C<syslog()> will only emit warnings instead of dying if the connection to the syslog can't be established. Added in C<Sys::Syslog> 0.15.

=item *

C<nonul> - When set to true, no C<NUL> character (C\0) will be appended to the message. This can be useful for some syslog daemons. Added in C<Sys::Syslog> 0.29.

=item *

C<nowait> - Don't wait for child processes that may have been created while logging the message. (The GNU C library does not create a child process, so this option has no effect on Linux.)

=item *
C<perror> - Write the message to standard error output as well to the system log. Added in C<Sys::Syslog> 0.22.

=item *

C<pid> - Include PID with each message.

=back

B<Examples>

Open the syslog with options C<ndelay> and C<pid>, and with facility C<LOCAL0>:

    openlog($name, "ndelay,pid", "local0");

Same thing, but this time using the macro corresponding to C<LOCAL0>:

    openlog($name, "ndelay,pid", LOG_LOCAL0);

=item B<syslog($priority, $message)>

=item B<syslog($priority, $format, @args)>

If C<$priority> permits, logs C<$message> or C<sprintf($format, @args)> with the addition that C<%m> in $message or C<$format> is replaced with C<"$!"> (the latest error message).

C<$priority> can specify a level, or a level and a facility. Levels and facilities can be given as strings or as macros. When using the C<eventlog> mechanism, priorities C<DEBUG> and C/INFO> are mapped to event type C<informational>, C<NOTICE> and C<WARNING> to C<warning> and C<ERR> to C<EMERG> to C<error>.

If you didn't use C<openlog()> before using C<syslog()> , C<syslog()> will try to guess the C<$ident> by extracting the shortest prefix of C<$format> that ends in a C<"\":">.

B<Examples>

    # informational level
    syslog("info", $message);
    syslog(LOG_INFO, $message);

    # information level, Local0 facility
    syslog("info\local0", $message);
    syslog(LOG_INFO|LOG_LOCAL0, $message);
=over 4
=item B<Note>
C<Sys::Syslog> version v0.07 and older passed the C<$message> as the
formatting string to C<sprintf()> even when no formatting arguments
were provided. If the code calling C<syslog()> might execute with
older versions of this module, make sure to call the function as
C<syslog($priority, "%s", $message)> instead of C<syslog($priority,
$message)>. This protects against hostile formatting sequences that
might show up if $message contains tainted data.
=back

=item B<setlogmask($mask_priority)>
Sets the log mask for the current process to C<$mask_priority> and
returns the old mask. If the mask argument is 0, the current log mask
is not modified. See L<"Levels"> for the list of available levels.
You can use the C<LOG_UPTO()> function to allow all levels up to a
given priority (but it only accept the numeric macros as arguments).
B<Examples>
Only log errors:
setlogmask( LOG_MASK(LOG_ERR) );
Log everything except informational messages:
setlogmask( ~(LOG_MASK(LOG_INFO)) );
Log critical messages, errors and warnings:
setlogmask( LOG_MASK(LOG_CRIT)
| LOG_MASK(LOG_ERR)
| LOG_MASK(LOG_WARNING) );
Log all messages up to debug:
setlogmask( LOG_UPTO(LOG_DEBUG) );

=item B<setlogsock()>
Sets the socket type and options to be used for the next call to C<openlog()>

Open Source Used In APIC-SE-BATMAN 2.1.1d 30965


or C<syslog()>. Returns true on success, C<undef> on failure.

Being Perl-specific, this function has evolved along time. It can currently be called as follow:

=over
=item *
C<setlogsock($sock_type)>

=item *
C<setlogsock($sock_type, $stream_location)> (added in Perl 5.004_02)

=item *
C<setlogsock($sock_type, $stream_location, $sock_timeout)> (added in C<Sys::Syslog> 0.25)

=back

The available options are:

=over
=item *
C<type> - equivalent to C<$sock_type>, selects the socket type (or "mechanism"). An array reference can be passed to specify several mechanisms to try, in the given order.

=item *
C<path> - equivalent to C<$stream_location>, sets the stream location. Defaults to standard Unix location, or C<_PATH_LOG>.

=item *
C<timeout> - equivalent to C<$sock_timeout>, sets the socket timeout in seconds. Defaults to 0 on all systems except S<Mac OS X> where it is set to 0.25 sec.

=item *
C<host> - sets the hostname to send the messages to. Defaults to the local host.

=back

C<port> - sets the TCP or UDP port to connect to. Defaults to the first standard syslog port available on the system.

=back

The available mechanisms are:

=over

=item *

C<"native"> - use the native C functions from your C<syslog(3)> library (added in C<Sys::Syslog> 0.15).

=item *

C<"eventlog"> - send messages to the Win32 events logger (Win32 only; added in C<Sys::Syslog> 0.19).

=item *

C<"tcp"> - connect to a TCP socket, on the C<syslog/tcp> or C<syslogng/tcp> service. See also the C<host>, C<port> and C<timeout> options.

=item *

C<"udp"> - connect to a UDP socket, on the C<syslog/udp> service. See also the C<host>, C<port> and C<timeout> options.

=item *

C<"inet"> - connect to an INET socket, either TCP or UDP, tried in that order. See also the C<host>, C<port> and C<timeout> options.

=item *

C<"unix"> - connect to a UNIX domain socket (in some systems a character special device). The name of that socket is given by the C<path> option or, if omitted, the value returned by the C<_PATH_LOG> macro (if your system defines it), F</dev/log> or F</dev/conslog>, whichever is writable.
C"stream" - connect to the stream indicated by the C<path> option, or, if omitted, the value returned by the C<_PATH_LOG> macro (if your system defines it), F<dev/log> or F<dev/conslog>, whichever is writable. For example Solaris and IRIX system may prefer C"stream" instead of C"unix".

C"pipe" - connect to the named pipe indicated by the C<path> option, or, if omitted, to the value returned by the C<_PATH_LOG> macro (if your system defines it), or F<dev/log> (added in C<Sys::Syslog> 0.21). HP-UX is a system which uses such a named pipe.

C"console" - send messages directly to the console, as for the C"cons" option of C<openlog()>.

The default is to try C<native>, C<tcp>, C<udp>, C<unix>, C<pipe>, C<stream>, C<console>.
Under systems with the Win32 API, C<eventlog> will be added as the first mechanism to try if C<Win32::EventLog> is available.

Giving an invalid value for C<$sock_type> will C<croak>.

B<Examples>

Select the UDP socket mechanism:

    setlogsock("udp");

Send messages using the TCP socket mechanism on a custom port:

    setlogsock({ type => "tcp", port => 2486 });

Send messages to a remote host using the TCP socket mechanism:

    setlogsock({ type => "tcp", host => $loghost });

Try the native, UDP socket then UNIX domain socket mechanisms:

    setlogsock(["native", "udp", "unix"]);
Now that the "native" mechanism is supported by \texttt{Sys::Syslog} and selected by default, the use of the \texttt{setlogsock()} function is discouraged because other mechanisms are less portable across operating systems. Authors of modules and programs that use this function, especially its cargo-cult form \texttt{setlogsock("unix")}, are advised to remove any occurrence of it unless they specifically want to use a given mechanism (like TCP or UDP to connect to a remote host).

\textbf{closelog()}

Closes the log file and returns true on success.

\section*{THE RULES OF SYS::SYSLOG}

\textbf{The First Rule of Sys::Syslog is:}
You do not call \texttt{setlogsock}.

\textbf{The Second Rule of Sys::Syslog is:}
You \textbf{do not} call \texttt{setlogsock}.

\textbf{The Third Rule of Sys::Syslog is:}
The program crashes, \texttt{die}s, calls \texttt{closelog}, the log is over.

\textbf{The Fourth Rule of Sys::Syslog is:}
One facility, one priority.

\textbf{The Fifth Rule of Sys::Syslog is:}
One log at a time.

\textbf{The Sixth Rule of Sys::Syslog is:}
No \texttt{syslog} before \texttt{openlog}.

\textbf{The Seventh Rule of Sys::Syslog is:}
Logs will go on as long as they have to.

\textbf{The Eighth, and Final Rule of Sys::Syslog is:}
If this is your first use of Sys::Syslog, you must read the doc.
An example:

```c
openlog($program, 'cons,pid', 'user');
syslog('info', '%s', 'this is another test');
syslog('mail|warning', 'this is a better test: %d', time);
closelog();

syslog('debug', 'this is the last test');
```

Another example:

```c
openlog("$program $", 'ndelay', 'user');
syslog('notice', 'fooprogram: this is really done');
```

Example of use of C<%m>:

```c
$! = 55;
syslog('info', 'problem was %m'); # %m == $! in syslog(3)
```

Log to UDP port on C<$remotehost> instead of logging locally:

```c
setlogsock("udp", $remotehost);
openlog($program, 'ndelay', 'user');
syslog('info', 'something happened over here');
```

=head1 CONSTANTS

=head2 Facilities

=over 4

=item *

C<LOG_AUDIT> - audit daemon (IRIX); falls back to C<LOG_AUTH>

=item *

C<LOG_AUTH> - security/authorization messages

=item *

C<LOG_AUTHPRIV> - security/authorization messages (private)

=item *

C<LOG_CONSOLE> - C</dev/console> output (FreeBSD); falls back to C<LOG_USER>
C<LOG_CRON> - clock daemons (Bcron> and Bat>)

C<LOG_DAEMON> - system daemons without separate facility value

C<LOG_FTP> - FTP daemon

C<LOG_KERN> - kernel messages

C<LOG_INSTALL> - installer subsystem (Mac OS X); falls back to C<LOG_USER>

C<LOG_LAUNCHD> - launchd - general bootstrap daemon (Mac OS X); falls back to C<LOG_DAEMON>

C<LOG_LFMT> - logalert facility; falls back to C<LOG_USER>

C<LOG_LOCAL0> through C<LOG_LOCAL7> - reserved for local use

C<LOG_LPR> - line printer subsystem

C<LOG_MAIL> - mail subsystem

C<LOG_NETINFO> - NetInfo subsystem (Mac OS X); falls back to C<LOG_DAEMON>

C<LOG_NEWS> - USENET news subsystem
C<LOG_NTP> - NTP subsystem (FreeBSD, NetBSD); falls back to C<LOG_DAEMON>

C<LOG_RAS> - Remote Access Service (VPN / PPP) (Mac OS X);
falls back to C<LOG_AUTH>

C<LOG_REMOTEAUTH> - remote authentication/authorization (Mac OS X);
falls back to C<LOG_AUTH>

C<LOG_SECURITY> - security subsystems (firewalling, etc.) (FreeBSD);
falls back to C<LOG_AUTH>

C<LOG_SYSLOG> - messages generated internally by B<syslogd>

C<LOG_USER> (default) - generic user-level messages

C<LOG_UUCP> - UUCP subsystem

C<LOG_EMERG> - system is unusable

C<LOG_ALERT> - action must be taken immediately
C<LOG_CRIT> - critical conditions

C<LOG_ERR> - error conditions

C<LOG_WARNING> - warning conditions

C<LOG_NOTICE> - normal, but significant, condition

C<LOG_INFO> - informational message

C<LOG_DEBUG> - debug-level message

=head1 DIAGNOSTICS

=over

=item C<Invalid argument passed to setlogsock>

B<F> You gave C<setlogsock()> an invalid value for C<$sock_type>.

=item C<eventlog passed to setlogsock, but no Win32 API available>

B<W> You asked C<setlogsock()> to use the Win32 event logger but the operating system running the program isn't Win32 or does not provides Win32 compatible facilities.

=item C<no connection to syslog available>

B<F> C<syslog()> failed to connect to the specified socket.

=item C<stream passed to setlogsock, but %s is not writable>

B<W> You asked C<setlogsock()> to use a stream socket, but the given path is not writable.
=item C<stream passed to setlogsock, but could not find any device>

B<(W)> You asked C<setlogsock()> to use a stream socket, but didn't provide a path, and C<Sys::Syslog> was unable to find an appropriate one.

=item C<tcp passed to setlogsock, but tcp service unavailable>

B<(W)> You asked C<setlogsock()> to use a TCP socket, but the service is not available on the system.

=item C<syslog: expecting argument %s>

B<(F)> You forgot to give C<syslog()> the indicated argument.

=item C<syslog: invalid level/facility: %s>

B<(F)> You specified an invalid level or facility.

=item C<syslog: too many levels given: %s>

B<(F)> You specified too many levels.

=item C<syslog: too many facilities given: %s>

B<(F)> You specified too many facilities.

=item C<syslog: level must be given>

B<(F)> You forgot to specify a level.

=item C<udp passed to setlogsock, but udp service unavailable>

B<(W)> You asked C<setlogsock()> to use a UDP socket, but the service is not available on the system.

=item C<unix passed to setlogsock, but path not available>

B<(W)> You asked C<setlogsock()> to use a UNIX socket, but C<Sys::Syslog> was unable to find an appropriate an appropriate device.

=back

=head1 HISTORY

C<Sys::Syslog> is a core module, part of the standard Perl distribution since 1990. At this time, modules as we know them didn't exist, the
Perl library was a collection of F<.pl> files, and the one for sending syslog messages with was simply F<lib/syslog.pl>, included with Perl 3.0. It was converted as a module with Perl 5.0, but had a version number only starting with Perl 5.6. Here is a small table with the matching Perl and C<Sys::Syslog> versions.

<table>
<thead>
<tr>
<th>Sys::Syslog</th>
<th>Perl</th>
</tr>
</thead>
<tbody>
<tr>
<td>undef</td>
<td>5.0.0 ~ 5.5.4</td>
</tr>
<tr>
<td>0.01</td>
<td>5.6.*</td>
</tr>
<tr>
<td>0.03</td>
<td>5.8.0</td>
</tr>
<tr>
<td>0.04</td>
<td>5.8.1, 5.8.2, 5.8.3</td>
</tr>
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<td>0.05</td>
<td>5.8.4, 5.8.5, 5.8.6</td>
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<tr>
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</tr>
<tr>
<td>0.13</td>
<td>5.8.8</td>
</tr>
<tr>
<td>0.22</td>
<td>5.10.0</td>
</tr>
<tr>
<td>0.27</td>
<td>5.8.9, 5.10.1 ~ 5.14.*</td>
</tr>
<tr>
<td>0.29</td>
<td>5.16.*</td>
</tr>
<tr>
<td>0.32</td>
<td>5.18.*</td>
</tr>
<tr>
<td>0.33</td>
<td>5.20.*</td>
</tr>
<tr>
<td>0.33</td>
<td>5.22.*</td>
</tr>
</tbody>
</table>

=head1 SEE ALSO

=head2 Other modules

L<Log::Log4perl> - Perl implementation of the Log4j API

L<Log::Dispatch> - Dispatches messages to one or more outputs

L<Log::Report> - Report a problem, with exceptions and language support

=head2 Manual Pages

L<syslog(3)>

SUSv3 issue 6, IEEE Std 1003.1, 2004 edition,
L<http://www.opengroup.org/onlinepubs/000095399/basedefs/syslog.h.html>

GNU C Library documentation on syslog,

FreeBSD documentation on syslog,
L<https://www.freebsd.org/cgi/man.cgi?query=syslog>

Solaris 11 documentation on syslog,
L<https://docs.oracle.com/cd/E53394_01/html/E54766/syslog-3c.html>
Mac OS X documentation on syslog,

IRIX documentation on syslog,

AIX 5L 5.3 documentation on syslog,

HP-UX 11i documentation on syslog,
L<http://docs.hp.com/en/B2355-60130/syslog.3C.html>

Tru64 documentation on syslog,
L<http://nixdoc.net/man-pages/Tru64/man3/syslog.3.html>

Stratus VOS 15.1,

=head2 RFCs

-- Please note that this is an informational RFC, and therefore does not specify a standard of any kind.

I<RFC 3195 - Reliable Delivery for syslog>, L<http://www.faqs.org/rfcs/rfc3195.html>

=head2 Articles

I<Syslogging with Perl>, L<http://lexington.pm.org/meetings/022001.html>

=head2 Event Log

Windows Event Log,

=head1 AUTHORS & ACKNOWLEDGEMENTS

Tom Christiansen E&lt;christ (at) perl.com&gt; and Larry Wall E&lt;larry (at) wall.org&gt;.

UNIX domain sockets added by Sean Robinson E&lt;robinson_s (at) sc.maricopa.edu&gt; with support from Tim Bunce E&lt;Tim.Bunce (at) ig.co.uk&gt; and the C&lt;perl5-porters&gt; mailing list.
Dependency on <syslog.ph> replaced with XS code by Tom Hughes
E<lt>F<tom (at) compton.nu>E<gt>.

Code for <constant()>s regenerated by Nicholas Clark E<lt>F<nick (at) ccl4.org>E<gt>.

Failover to different communication modes by Nick Williams
E<lt>F<Nick.Williams (at) morganstanley.com>E<gt>.

Extracted from core distribution for publishing on the CPAN by
SE<eacute>bastien Aperghis-Tramoni E<lt>sebastien (at) aperghis.netE<gt>.

XS code for using native C functions borrowed from C<Unix::Syslog>,
written by Marcus Harnisch E<lt>F<marcus.harnisch (at) gmx.net>E<gt>.

Yves Orton suggested and helped for making C<Sys::Syslog> use the native
event logger under Win32 systems.

Jerry D. Hedden and Reini Urban provided greatly appreciated help to
debug and polish C<Sys::Syslog> under Cygwin.

=head1 BUGS

Please report any bugs or feature requests to
C<bug-sys-syslog (at) rt.cpan.org>, or through the web interface at
I will be notified, and then you'll automatically be notified of progress on
your bug as I make changes.

=head1 SUPPORT

You can find documentation for this module with the perldoc command.

   perldoc Sys::Syslog

You can also look for information at:

=over

=item * Perl Documentation

L<http://perldoc.perl.org/Sys/Syslog.html>

=item * MetaCPAN

L<https://metacpan.org/module/Sys::Syslog>
Open Source Used in APIC-SE-BATMAN 2.1.1d 30978

=item * Search CPAN

L<http://search.cpan.org/dist/Sys-Syslog/>

=item * AnnoCPAN: Annotated CPAN documentation

L<http://annocpan.org/dist/Sys-Syslog>

=item * CPAN Ratings

L<http://cpanratings.perl.org/d/Sys-Syslog>

=item * RT: CPAN’s request tracker


=back

The source code is available on Git Hub:
L<https://github.com/maddingue/Sys-Syslog/>

=head1 COPYRIGHT

Copyright (C) 1990-2012 by Larry Wall and others.

=head1 LICENSE

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=cut

=begin comment

Notes for the future maintainer (even if it’s still me..)
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -

Using Google Code Search, I search who on Earth was relying on $host being public. It found 5 hits:

* First was inside Indigo Star Perl2exe documentation. Just an old version of Sys::Syslog.

* One real hit was inside DalWeatherDB, a weather related program. It simply does a

=end comment
$Sys::Syslog::host = '127.0.0.1';

- L<http://www.gallistel.net/nparker/weather/code/>

* Two hits were in TPC, a fax server thingy. It does a

$Sys::Syslog::host = $TPC::LOGHOST;

but also has this strange piece of code:

# work around perl5.003 bug
sub Sys::Syslog::hostname {
}

I don't know what bug the author referred to.

- L<http://www.tpc.int/>

* Last hit was in Filefix, which seems to be a FIDOnet mail program (!). This one does not use $host, but has the following piece of code:

sub Sys::Syslog::hostname
{
    use Sys::Hostname;
    return hostname;
}

I guess this was a more elaborate form of the previous bit, maybe because of a bug in Sys::Syslog back then?


Links
-----
Linux Fast-STREAMS
- L<http://www.openss7.org/streams.html>

II12021: SYSLOGD HOWTO TCPIPINFO (z/OS, OS/390, MVS)

Getting the most out of the Event Viewer

Log events to the Windows NT Event Log with JNI
NAME

Sys::Syslog - Perl interface to the UNIX syslog(3) calls

DESCRIPTION

Sys::Syslog is an interface to the UNIX syslog(3) program.
Call syslog() with a string priority and a list of printf() args
just like syslog(3).

INSTALLATION

To install this module, run the following commands:

$ perl Makefile.PL
$ make
$ make test
$ make install

An ANSI-compliant compiler is required to compile the extension.

Sys::Syslog should work on any Perl since 5.6.0. This module is
regularly compiled and tested by the CPAN Testers on various
combinations of Perl and operating systems.

See also the corresponding CPAN Testers page:
http://testers.cpan.org/show/Sys-Syslog.html

SUPPORT AND DOCUMENTATION

After installing, you can find documentation for this module
with the perldoc command.

perldoc Sys::Syslog

You can also look for information at:
Search CPAN
   http://search.cpan.org/dist/Sys-Syslog/

MetaCPAN
   https://metacpan.org/module/Sys::Syslog

CPAN Request Tracker:
   http://rt.cpan.org/NoAuth/Bugs.html?Dist=Sys-Syslog

AnnoCPAN, annotated CPAN documentation:
   http://annocpan.org/dist/Sys-Syslog

CPAN Ratings:
   http://cpanratings.perl.org/d/Sys-Syslog

COPYRIGHT AND LICENCE

Copyright (C) 1990-2012 by Larry Wall and others.

This program is free software; you can redistribute it and/or modify it
under the same terms as Perl itself.

Found in path(s):
   * /opt/cola/permits/1139282470_1614507691.42/0/perl-Sys-Syslog-0.35-397.el8-1.src.rpm-cosi-expand-archive-
mqLq8xN2/Sys-Syslog-0.35.tar.gz-cosi-expand-archive-WencJHN3/Sys-Syslog-0.35/README
No license file was found, but licenses were detected in source scan.

=head1 NAME

Sys::Syslog::Win32 - Win32 support for Sys::Syslog

=head1 DESCRIPTION

This module is a back-end plugin for C<Sys::Syslog>, for supporting the Win32
event log. It is not expected to be directly used by any module other than
C<Sys::Syslog> therefore it's API may change at any time and no warranty is
made with regards to backward compatibility. You Have Been Warned.

=head1 SEE ALSO

L<Sys::Syslog>

=head1 AUTHORS

SE<eacute>bastien Aperghis-Tramoni and Yves Orton
This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

Found in path(s):
* /opt/cola/permits/1139282470_1614507691.42/0/perl-Sys-Syslog-0.35-397.el8-1.src.rpm-cosi-expand-archive-mqLq8xN2/Sys-Syslog-0.35.tar.gz-cosi-expand-archive-WencJHN3/Sys-Syslog-0.35/win32/Win32.pm
No license file was found, but licenses were detected in source scan.

ppport.h -- Perl/Pollution/Portability Version 3.08

Automatically created by Devel::PPPort running under perl 5.008005 on Thu Jun  8 00:58:19 2006.

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.
--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 (this, obviously, cannot be undone)

--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.9.3.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.
=head2 --compat-version=I<version>

Tell F<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.

=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.

=head2 --list-provided
Lists the API elements for which compatibility is provided by `F<ppport.h>`. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by `F<ppport.h>` and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching `I<name>`.
If `I<name>` is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=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:

```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_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>
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<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>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>
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<tr>
<td>sv_2pv_nolen()</td>
<td>NEED_sv_2pv_nolen</td>
<td>NEED_sv_2pv_nolen_GLOBAL</td>
</tr>
<tr>
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<td>NEED_sv_catpvpf_mg</td>
<td>NEED_sv_catpvpf_mg_GLOBAL</td>
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<tr>
<td>sv_catpvpf_mg_nocontext()</td>
<td>NEED_sv_catpvpf_mg_nocontext</td>
<td>NEED_sv_catpvpf_mg_nocontext_GLOBAL</td>
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<tr>
<td>sv_setpvpf_mg()</td>
<td>NEED_sv_setpvpf_mg</td>
<td>NEED_sv_setpvpf_mg_GLOBAL</td>
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<tr>
<td>sv_setpvpf_mg_nocontext()</td>
<td>NEED_sv_setpvpf_mg_nocontext</td>
<td>NEED_sv_setpvpf_mg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>vnewSVpvpf()</td>
<td>NEED_vnewSVpvpf</td>
<td>NEED_vnewSVpvpf_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.

To display portability information for the C<newSVpvn> function, use:

perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use
perl ppport.h --api-info=_nomg$

to display portability information for all C<_nomg> functions or

perl ppport.h --api-info=/.

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during
the compilation of this module, please check if newer versions
of either this module or C<Devel::PPPort> are available on CPAN
before sending a bug report.

If F<ppport.h> was generated using the latest version of
C<Devel::PPPort> and is causing failure of this module, please
file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort>
module from CPAN.
=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2006, 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;

my %opt = (
    quiet => 0,
    diag  => 1,
    hints => 1,
    changes => 1,
    cplusplus => 0,
    filter => 1,
    strip  => 0,
);

my($ppport) = $0 =~ /\[(\w.\d+)$/;
my $LF = '(?:\r\n|\[\r\n\])'; # line feed
my $HS = "\[ \t\]";       # horizontal whitespace

eval {
    require Getopt::Long;
    Getopt::Long::GetOptions(%opt, qw(
        help quiet diag! filter! hints! changes! cplusplus strip
        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.\n";
}

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;
}

# Never use C comments in this file!!!!!
my $ccs = '/.*';
my $cce = '*./';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

my %API = map { /^(\w+)|([^|]*)|([^|]*)|([^)]*)$/
    ? ( $1 => {
        ($2                  ? ( base     => $2 ) : ()),
        ($3                  ? ( todo     => $3 ) : ()),
        (index($4, 'v') >= 0 ? ( varargs  => 1  ) : ()),
        (index($4, 'p') >= 0 ? ( provided => 1  ) : ()),
        (index($4, 'n') >= 0 ? ( nothxarg => 1  ) : ()),
    )
    )
    : die "invalid spec: $_" } qw(
    AvFILLp|5.004050||p
    AvFILL||
    CLASS||n
    CX_CURPAD_SAVE||
    CX_CURPAD_SV||
    CopFILEAV|5.006000||p
    CopFILEGV_set|5.006000||p
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my_betohs
my_betoli
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my_exit_jump
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sv_setpviv||5.008001|
sv_setpvn_mg|5.006000||p
sv_setpvn|||
sv_setpv|||
sv_setref_iv|||
sv_setref_nv|||
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sv_setsv_cow|||
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sv_setsv_mg|5.006000||p
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warner||5.006000|v
warn|||v
watch|||
whichsig|||
write_no_mem|||
write_to_stderr|||
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, %depends);
my $replace = 0;
my $hint = '';
while (<DATA>) {
if ($hint) {
if (m{^\s*\*\s(.*?)\s*$}) {
$hints{$hint} ||= ''; # suppress warning with older perls
$hints{$hint} .= "$1\n";
}
else {
$hint = '';
}
}
$hint = $1 if m{^\s*$rccs\sHint:\s+(\w+)\s*$};
$replace = $1 if m{^\s*$rccs\s+Replace:\s+(\d+)\s+$rcce\s*$};
$replace{$2} = $1 if $replace and m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+)};
$replace{$2} = $1 if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+).*$rccs\s+Replace\s+$rcce};
$replace{$1} = $2 if m{^\s*$rccs\s+Replace (\w+) with (\w+)\s+$rcce\s*$};

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if (m{^s*$rccs\s+\(\w+\)\s+depends\s+on\s+\(\w+\(\w*\,\w*\,\w+\)\)\s+rccce\s*$}) {
    push @{$depends{$1}}, map { s/\s+///g; $_ } split /,/, $2;
}

$need{$1} = 1 if m{^#if \s+defined\(NEED_(\w+)(?:_GLOBAL)?\)$};

if (exists $opt{’api-info’}) {
    my $f;
    my $count = 0;
    my $match = $opt{’api-info’} =~ m!^\!/(.*)/$! ? $1 : ”^\!Q$opt{’api-info’}\!S”;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $f =~ /$match/;
        print ”
=== $f ===

”; 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 ”Shints{$f}” if exists $hints{$f};
            $info++;
        }
        unless ($info) {
            print ”No portability information available.\n”;
        }
        $count++;}
        if ($count > 0) {
            print ”\n”;
        } else {
            print ”Found no API matching $opt{’api-info’}.\n”;
        }
        exit 0;
    }
if (exists $opt{’list-provided’}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{provided};
        my @flags;
push @flags, 'explicit' if exists $need{$f};
push @flags, 'depend' if exists $depends{$f};
push @flags, 'hint' if exists $hints{$f};
my $flags = @flags ? ' ['.join(', ', @flags).']' : '';
print "$f$flags\n";
}
exit 0;
}
my @files;
my @srcext = qw( xs c h cc cpp );
my $srcext = join '|', @srcext;
if (@ARGV) {
my %seen;
@files = grep { -f && !exists $seen{$_} } map { glob $_ } @ARGV;
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /\.($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*.$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/\.($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
unless (@files) {
die "No input files given!\n";
}
my(%files, %global, %revreplace);

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%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;

for $filename (@files) {
    unless (open IN, "<$filename") {
        warn "Unable to read from $filename: $!
next;
    }

    info("Scanning $filename ...);

    my $c = do { local$/; <IN> };
    close IN;

    my %file = (orig => $c, changes => 0);

    # temporarily remove C comments from the code
    my @ccom;
    $c =~ s{
    (    [^"'/\]+    |
        (?:[^"\]*\([^"\]*\)* [^"'/\]*    |
        (?:[^"\]*\([^"\]*\)* [^"'/\]*)*    )    |
        (?!:/\*[^\*]*\*+(?:[^$ccs]\[^*]*\*+)* /    |
        /[^\\r\n]+\([^\\r\n]+\)*    )    |
    \([^\r\n]+\)    )    |
    defined $2 and push @ccom, $2;
    defined $1 ? $1 : "$ccs$#ccom$cce";
}egsx;

    $file{ccom} = @ccom;
    $file{code} = $c;
    $file{has_inc_ppport} = ($c =~ /#.*include.*\Q$ppport\E/);

    my $func;

    for $func (keys %API) {
        my $match = $func;
        $match .= "$revreplace{$func}" if exists $revreplace{$func};
        if ($c =~ Ab(?:Perl_)?{$match}ib) {

$file{uses_replace}[$1]++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
$file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
if (exists $API{$func}{provided}) {
    if (exists $API{$func}{base} || $API{$func}{base} > $opt{compat-version}) {
        $file{uses}{$func}++;
        my @deps = rec_depend($func);
        if (@deps) {
            $file{uses_deps}{$func} = \@deps;
            for (@deps) {
                $file{uses}[$_] = 0 unless exists $file{uses}[$_];
            }
        }
        for ($func, @deps) {
            if (exists $need{$_}) {
                $file{needs}{$_} = 'static';
            }
        }
    }
    if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{compat-version}) {
        if ($c =~ /$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}}) {
    for ($func, keys %{$file{$_}}) {
        push @[$global{$_}[$func]], $filename;
    }
}

# 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};
for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {
my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}
{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
if ($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}}) {
next unless $file{uses}{$func}; # if it's only a dependency
if (exists $file{uses_deps}{$func}) {
diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));

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elsif (exists $replace{$func}) {
    warning("Uses $func instead of $replace{$func} ");
    $file{changes} += ($c =~ s/\b$func\b/$replace{$func}/g);
} else {
    diag("Uses $func");
} hint($func);

for $func (sort keys %{$file{uses_todo}}) {
    warning("Uses $func, which may not be portable below perl ",
            format_version($API{$func}{todo}));
}

for $func (sort keys %{$file{needed_static}}) {
    my $message = ";
    if (not exists $file{uses}{$func}) {
        $message = "No need to define NEED_$func if $func is never used";
    } elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    } if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/\^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
    }
}

for $func (sort keys %{$file{needed_global}}) {
    my $message = ";
    if (not exists $global{uses}{$func}) {
        $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
    } elsif (exists $file{needs}{$func}) {
        if ($file{needs}{$func} eq 'extern') {
            $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
        } elsif ($file{needs}{$func} eq 'static') {
            $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
        } if ($message) {
            diag($message);
            $file{changes} += ($c =~ s/\^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
        }
    }
}
$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = ";

    for $func (sort keys %{$file{needs}})) {
        my $type = $file{needs}[$func];
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : ";
        unless (exists $file{needed_$type}[$func]) {
            if ($type eq 'global') {
                diag("Files [@ {$global{needs}[$func]}] need $func, adding global request");
            } else {
                diag("File needs $func, adding static request");
            }
            $pp .= "#define NEED_$func$suffix
";
        }
    }

    if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
        $pp = ";
        $file{changes}++;
    }

    unless ($file{has_inc_ppport}) {
        diag("Needs to include '$ppport'");
        $pp .= qq(#include "$ppport"
"
"
;
    }

    if ($pp) {
        $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+).*$/\1$pp/m)
            || ($c =~ s/^($HS*#$HS*include.*\Q$ppport\E)/$pp/m)
            || ($c =~ s/^($HS*#$HS*include.*XSUB.*\s*?)^/$1$pp/m)
            || ($c =~ s/^$pp/);";
    }
}
else {
    if ($file{has_inc_ppport}) {
            diag("No need to include '$ppport'");
        $file{changes} += ($c =~ s/^$HS*?#$HS*include.*$Q$ppport\E.*?$LF//m);
    }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cee/;
    }
    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");
}

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("$newfile' already exists, refusing to write copy of '$filename'");
        }
        else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of '$filename' with changes to '$newfile'");
                print F $c;
                close F;
            }
            else {
                error("Cannot open '$newfile' for writing: $!");
            }
        }
    }
    elsif (exists $opt{patch} || $opt{changes}) {
        if (exists $opt{patch}) {
            unless ($patch_opened) {
                if (open PATCH, ">$opt{patch}") {
                    $patch_opened = 1;
                }
                else {
                    error("Cannot open '$opt{patch}' for writing: $!");
                    delete $opt{patch};
                    $opt{changes} = 1;
                    goto fallback;
                }
            }
            mydiff(*PATCH, $filename, $c);
        }
    }
}
else {
  fallback:
    info("Suggested changes:");
    mydiff("*STDOUT", $filename, $c);
  }
}
}
else {
  my $s = $file{changes} == 1 ? " : 's';
  info("$file{changes} potentially required change$s detected");
}
}
else {
  info("Looks good");
}
}

close PATCH if $patch_opened;

exit 0;

sub mydiff
{
  local *F = shift;
  my($file, $str) = @_;
  my $diff;

  if (exists $opt{diff}) {
    $diff = run_diff($opt{diff}, $file, $str);
  }

  if (!defined $diff and can_use('Text::Diff')) {
    $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
    $diff = <<HEADER . $diff;
    --- $file
    +++ $file.patched
    HEADER
  }

  if (!$diff) {
    $diff = run_diff('diff -u', $file, $str);
  }

  if (!$diff) {
    $diff = run_diff('diff', $file, $str);
  }

  return $diff;
}
if (!defined $diff) {
    error("Cannot generate a diff. Please install Text::Diff or use --copy.");
    return;
}

print F $diff;


sub run_diff
{
    my($prog, $file, $str) = @_;
    my $tmp = 'dppptemp';
    my $suf = 'aaa';
    my $diff = "";
    local *F;

    while (-e "$tmp.$suf") { $suf++ }
    $tmp = "$tmp.$suf";

    if (open F, ">$tmp") {
        print F $str;
        close F;

        if (open F, "$prog $file $tmp |") {
            while (<F>) {
                s/\Q$tmp\E/$file.patched/;
                $diff .= $_;
            }
            close F;
            unlink $tmp;
            return $diff;
        }
        unlink $tmp;
    } else {
        error("Cannot open '$tmp' for writing: $!");
    }

    return undef;
}

sub can_use
{
    eval "use @_;";
    return $@ eq "";
}
sub rec_depend
{
  my $func = shift;
  my %seen;
  return () unless exists $depends{$func};
  grep !$seen{$_}++, map { ($_, rec_depend($_)) } @{$depends{$func}};
}

sub parse_version
{
  my $ver = shift;

  if ($ver =~ /\d+/) { return ($1, $2, $3); } elseif ($ver !~ /\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", @_, "\n";
}

sub error
{
    print "*** ERROR: \n", @_, "\n";
}

my %given_hints;
sub hint
{
    $opt{quiet} and return;
    $opt{hints} or return;
    my $func = shift;
    exists $hints{$func} or return;
    $given_hints{$func}++ and return;
    my $hint = $hints{$func};
    $hint =~ s/^/   /mg;
    print "   --- hint for $func ---\n", $hint;
sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/^\^\^perl\^s+\^$/\^$X \^0/;
$usage =~ s/\[(A-Z)]\<(\^[>]+)\>/\^S[M1]\^S25M[S1]/g;

print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE
exit 2;
}

sub strip
{
my $self = do { local(@ARGV,$/)=($0); <> }; $self =~ s/^$HS+Do NOT edit.*?(?=^-)//ms;
$self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if (@ARGV && $ARGV[0] eq '--unstrip') {
eval { require Devel::PPPort };
\$@ and die "Cannot require Devel::PPPort, please install on";
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;

open OUT, ">$0" or die "cannot strip $0: $!
";
print OUT $self;
exit 0;
}
__DATA__
*/ 

Found in path(s):
*/opt/cola/permits/1139282470_1614507691.42/0/perl-Sys-Syslog-0.35-397.el8-1.src.rpm-cosi-expand-archive-mqLq8xN2/Sys-Syslog-0.35.tar.gz-cosi-expand-archive-WencJHN3/Sys-Syslog-0.35/ppport.h
No license file was found, but licenses were detected in source scan.

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Found in path(s):
*/opt/cola/permits/1139282470_1614507691.42/0/perl-Sys-Syslog-0.35-397.el8-1.src.rpm-cosi-expand-archive-mqLq8xN2/perl-Sys-Syslog.spec
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 *
*/syslog.h8.1 (Berkeley) 6/2/93
*/

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1.2321 msgp v1.1.2

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1.2322 simpleclient 0.6.0

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DRuntime: Runtime Library for the D Programming Language

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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1.2327 lombok 1.18.8

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1.2328 go-vhd 0.5-2020

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1.2329 evanphx-json-patch
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1.2330 python-urlgrabber 3.10 9.el7

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This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
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REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran,
rdjpg.com, and wrjpg.com.

*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information
can also be found in the JPEG FAQ (Frequently Asked Questions) article. See
ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or
more of the REFERENCES, then looking at the documentation files (in roughly
the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image compression and
decompression. JPEG (pronounced "jay-peg") is a standardized compression
method for full-color and gray-scale images. JPEG is intended for compressing
"real-world" scenes; line drawings, cartoons and other non-realistic images
are not its strong suit. JPEG is lossy, meaning that the output image is not
exactly identical to the input image. Hence you must not use JPEG if you
have to have identical output bits. However, on typical photographic images,
very good compression levels can be obtained with no visible change, and
remarkably high compression levels are possible if you can tolerate a
low-quality image. For more details, see the references, or just experiment
with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive
compression processes. Provision is made for supporting all variants of these
processes, although some uncommon parameter settings aren't implemented yet.
For legal reasons, we are not distributing code for the arithmetic-coding
variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting
the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files,
plus two sample applications "cjpeg" and "djpeg", which use the library to
perform conversion between JPEG and some other popular image file formats.
The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included
considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

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============

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that you must include source code if you redistribute it. (See the file
ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part
of any program generated from the IJG code, this does not limit you more than
the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf.
It is copyright by the Free Software Foundation but is freely distributable.
The same holds for its supporting scripts (config.guess, config.sub,
ltconfig, ltmain.sh). Another support script, install-sh, is copyright
by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by
patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot
legally be used without obtaining one or more licenses. For this reason,
support for arithmetic coding has been removed from the free JPEG software.
(Since arithmetic coding provides only a marginal gain over the unpatented
Huffman mode, it is unlikely that very many implementations will support it.)
So far as we are aware, there are no patent restrictions on the remaining
code.

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that

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REFERENCES
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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified
official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314
A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS
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The "official" archive site for this software is ftp.uu.net (Internet
address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.

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send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/. Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use;
it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
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Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.
In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

**1.2332 mail 1.6.2**

**1.2332.1 Available under license :**

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* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/CtField.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/tools/reflect/Metaobject.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/CtConstructor.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/bytecode/stackmap/MapMaker.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/tools/rmi/AppletServer.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/compiler/AccessorMaker.java
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* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/SerialVersionUID.java
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* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/tools/reflect/ClassFile.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/bytecode/FieldInfo.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/bytecode/analysis/Type.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/bytecode/FieldInfo.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/compiler/Parser.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/compiler/JvstTypeChecker.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/bytecode/analysis/MultiArrayType.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/bytecode/AnnotationsAttribute.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/bytecode/ParameterAnnotationsAttribute.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/compiler/ast/ASTList.java
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* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/ClassPoolTail.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/CannotCompileException.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/tools/reflect/CannotInvokeException.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/bytecode/CodeIterator.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/tools/rmi/ObjectImporter.java
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* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/LoaderClassPath.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/tools/Dump.java
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1.2337 httprouter v1.3.0

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1.2338 kafka-avro-serializer 5.2.2

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Other developers who have contributed code are:

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</head>

<body>

<!-- Navigation -->

<header>
<nav class="navbar navbar-default navbar-fixed-top">
<div class="container">
<div class="navbar-header">
<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
<span class="sr-only">Toggle navigation</span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
</button>
</div>
</div>
</nav>
</header>

</body>
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cd <SRC_PATH>
mvn package -DskipTests
mkdir /tmp/jars
mkdir /tmp/overrides
cd <LICENSE_TOOL_PATH>
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
<html lang="en-US">
<head>
<title>GlassFish Dual License Header and License Notice GPL v2 and CDDL</title>
<meta http-equiv="content-type" content="text/html; charset=UTF-8">
<style type="text/css">
li {display: block;}
</style>
</head>
<body leftmargin="0" topmargin="0" marginheight="0" marginwidth="0" bgcolor="#ffffff">
<h3>COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0</h3>
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<meta http-equiv="X-UA-Compatible" content="IE=edge">
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<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
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</head>

<body>

<!-- Navigation -->

<header>
<nav class="navbar navbar-default navbar-fixed-top">
<div class="container">
<div class="navbar-header">
<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
<span class="sr-only">Toggle navigation</span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
</button>
<a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
</div>
<div class="collapse navbar-collapse" id="mainnav-collapse">
<div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo&nbsp;<a href="/licenses/">Licenses</a></div>
<ul class="nav navbar-nav navbar-right">

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</div>
</div>
</nav>

<menuitem />

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<link href="/css/min.bootstrap.css" rel="stylesheet">

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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api
Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following dependencies are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following dependencies are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

If ALPN is used to negotiate HTTP/2 connections, then the following distribution may be included in the distribution or downloaded when ALPN module is selected. These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html
* java.sun.security.ssl

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* org.ow2.asm:asm-commons
* org.ow2.asm:asm

The following dependencies are ASL2 licensed.
* org.apache.taglibs:taglibs-standard-spec
* org.apache.taglibs:taglibs-standard-impl

The following dependencies are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.
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* org.apache.tomcat:tomcat-jasper
* org.apache.tomcat:tomcat-juli
* org.apache.tomcat:tomcat-jsp-api
* org.apache.tomcat:tomcat-el-api
* org.apache.tomcat:tomcat-jasper-el
* org.apache.tomcat:tomcat-api
* org.apache.tomcat:tomcat-util-scan
* org.apache.tomcat:tomcat-util
* org.mortbay.jasper:apache-el
* org.apache.tomcat:tomcat-jasper-el
* org.apache.tomcat:tomcat-el-api

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* org.eclipse.jetty.toolchain:jetty-schemas

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Version: GnuPG v1.4.1 (Darwin)

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Mailing Address: 37 TwinHill St., New Manila Rolling Hills, Q.C., Philippines

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Date:

Signature:

Name: Gordon King

Positions: Chief Operational Officer

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<table>
<thead>
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<th>Name</th>
<th>Date added</th>
</tr>
</thead>
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<td>12 September 2006</td>
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---
abstract: unknown
author:
- unknown
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.98, CPAN::Meta::Converter version 2.141170'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Algorithm-Diff
no_index:
directory:
  - t
  - inc
requires: {}
version: '1.1903'

Found in path(s):
* /opt/cola/permits/1125845623_1611460864.54/0/perl-Algorithm-Diff-1.1903-9.el8-1.src.rpm-cosi-expand-archive-nUoNvfdY/Algorithm-Diff-1.1903.tar.gz-cosi-expand-archive-kCTmmxsM/Algorithm-Diff-1.1903/META.yml
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#
# `Diff' program in Perl
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
#
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# under the same terms as Perl itself.
#
use Algorithm::Diff qw(diff);

bag("Usage: $0 oldfile newfile") unless @ARGV == 2;

my ($file1, $file2) = @ARGV;

# -f $file1 or bag("$file1: not a regular file");
# -f $file2 or bag("$file2: not a regular file");

-T $file1 or bag("$file1: binary");
-T $file2 or bag("$file2: binary");

open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;

$diffs = diff(\@f1, \@f2);
exit 0 unless @$diffs;

foreach $chunk (@$diffs) {
  foreach $line (@$chunk) {
    my ($sign, $lineno, $text) = @$line;
    printf "%4d$sign %s
", $lineno+1, $text;
  }
  print "--------
";
}
exit 1;

sub bag {
  my $msg = shift;
  $msg .= "n";
}
warn $msg;
exit 2;
}

Found in path(s):
* /opt/cola/permits/1125845623_1611460864.54/0/perl-Algorithm-Diff-1.1903-9.el8-1.src.rpm-cosi-expand-archive-nUoNvfdY/Algorithm-Diff-1.1903.tar.gz-cosi-expand-archive-kCTmmxsM/Algorithm-Diff-1.1903/diff.pl
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=head1 NAME
Algorithm::Diff - Compute `intelligent' differences between two files / lists

=head1 SYNOPSIS

require Algorithm::Diff;

# This example produces traditional 'diff' output:

my $diff = Algorithm::Diff->new( \@seq1, \@seq2 );

$diff->Base( 1 );  # Return line numbers, not indices
while( $diff->Next() ) {
  next if $diff->Same();
  my $sep = "";
  if( ! $diff->Items(2) ) {
    printf "%d,%dd%d\n",
      $diff->Get(qw( Min1 Max1 Max2 ));
  } elsif( ! $diff->Items(1) ) {
    printf "%da%d,%d\n",
      $diff->Get(qw( Max1 Min2 Max2 ));
  } else {
    $sep = "---\n";
    printf "%-d,%-d\n",
      $diff->Get(qw( Max1 Min1 Min2 Max2 ));
  }
  print "< $_" for $diff->Items(1);
  print $sep;
  print "> $_" for $diff->Items(2);
}

# Alternate interfaces:

use Algorithm::Diff qw( 
  LCS LCS_length LCSidx 
  diff sdiff compact_diff 
  traverse_sequences traverse_balanced );
I once read an article written by the authors of C<diff>; they said that they worked very hard on the algorithm until they found the right one.
I think what they ended up using (and I hope someone will correct me, because I am not very confident about this) was the 'longest common subsequence' method. In the LCS problem, you have two sequences of items:

```
  a b c d f g h j q z
  a b c d e f g i j k r x y z
```

and you want to find the longest sequence of items that is present in both original sequences in the same order. That is, you want to find a new sequence I<S> which can be obtained from the first sequence by deleting some items, and from the second sequence by deleting other items. You also want I<S> to be as long as possible. In this case I<S> is

```
  a b c d f g j z
```

From there it's only a small step to get diff-like output:

```
e   h i   k   q r x y
+   - +   +   - + + +
```

This module solves the LCS problem. It also includes a canned function to generate C<diff>-like output.

It might seem from the example above that the LCS of two sequences is always pretty obvious, but that's not always the case, especially when the two sequences have many repeated elements. For example, consider

```
  a x b y c z p d q
  a b c a x b y c z
```

A naive approach might start by matching up the C<a> and C<b> that appear at the beginning of each sequence, like this:

```
  a x b y c z p d q
  a b c a b y c z
```

This finds the common subsequence C<a b c z>. But actually, the LCS is C<x b y c z>:

```
  a x b y c z p d q
  a b c a x b y c z
  or
  a x b y c z p d q
```
=head1 USAGE
(See also the README file and several example scripts include with this module.)

This module now provides an object-oriented interface that uses less memory and is easier to use than most of the previous procedural interfaces. It also still provides several exportable functions. We'll deal with these in ascending order of difficulty: C<LCS>, C<LCS_length>, C<LCSidx>, OO interface, C<prepare>, C<diff>, C<sdiff>, C<traverse_sequences>, and C<traverse_balanced>.

=head2 C<LCS>
Given references to two lists of items, LCS returns an array containing their longest common subsequence. In scalar context, it returns a reference to such a list.

    @lcs   = LCS( \@seq1, \@seq2 );
    $lcsref = LCS( \@seq1, \@seq2 );

C<LCS> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

    @lcs   = LCS( \@seq1, \@seq2, \&keyGen, @args );
    $lcsref = LCS( \@seq1, \@seq2, \&keyGen, @args );

Additional parameters, if any, will be passed to the key generation routine.

=head2 C<LCS_length>
This is just like C<LCS> except it only returns the length of the longest common subsequence. This provides a performance gain of about 9% compared to C<LCS>.

=head2 C<LCSidx>
Like C<LCS> except it returns references to two arrays. The first array contains the indices into @seq1 where the LCS items are located. The second array contains the indices into @seq2 where the LCS items are located.

Therefore, the following three lists will contain the same values:

    my( $idx1, $idx2 ) = LCSidx( \@seq1, \@seq2 );
my @list1 = @seq1[ @$idx1 ];
my @list2 = @seq2[ @$idx2 ];
my @list3 = LCS( \@seq1, \@seq2 );

=head2 C<new>

$diff = Algorithm::Diffs->new( \@seq1, \@seq2 );
$diff = Algorithm::Diffs->new( \@seq1, \@seq2, \%opts );

C<new> computes the smallest set of additions and deletions necessary
to turn the first sequence into the second and compactly records them
in the object.

You use the object to iterate over I<hunks>, where each hunk represents
a contiguous section of items which should be added, deleted, replaced,
or left unchanged.

=over 4

The following summary of all of the methods looks a lot like Perl code
but some of the symbols have different meanings:

[ ] Encloses optional arguments
    : Is followed by the default value for an optional argument
    | Separates alternate return results

Method summary:

$obj = Algorithm::Diff->new( \@seq1, \@seq2, [ \%opts ] );
$pos = $obj->Next( [ $count : 1 ] );
$revPos = $obj->Prev( [ $count : 1 ] );
$obj = $obj->Reset( [ $pos : 0 ] );
$copy = $obj->Copy( [ $pos, [ $newBase ] ] );
$oldBase = $obj->Base( [ $newBase ] );

Note that all of the following methods C<die> if used on an object that
is "reset" (not currently pointing at any hunk).

<bits = $obj->Diff( );
@items\$cnt = $obj->Same( );
@items\$cnt = $obj->Items( $seqNum );
@idxs \$cnt = $obj->Range( $seqNum, [ $base ] );
$minIdx = $obj->Min( $seqNum, [ $base ] );
$maxIdx = $obj->Max( $seqNum, [ $base ] );
@values = $obj->Get( @names );

Passing in C<undef> for an optional argument is always treated the same
as if no argument were passed in.
=item C<Next>

$request_pos = $diff->Next();  # Move forward 1 hunk  
$request_pos = $diff->Next(2);  # Move forward 2 hunks  
$request_pos = $diff->Next(-5);  # Move backward 5 hunks  

C<Next> moves the object to point at the next hunk. The object starts out "reset", which means it isn't pointing at any hunk. If the object is reset, then C<Next()> moves to the first hunk.

C<Next> returns a true value iff the move didn't go past the last hunk. So C<Next(0)> will return true iff the object is not reset.

Actually, C<Next> returns the object's new position, which is a number between 1 and the number of hunks (inclusive), or returns a false value.

=item C<Prev>

C<Prev($N)> is almost identical to C<Next(-$N)>; it moves to the $Nth previous hunk. On a 'reset' object, C<Prev()> [and C<Next(-1)>] move to the last hunk.

The position returned by C<Prev> is relative to the I<end> of the hunks; -1 for the last hunk, -2 for the second-to-last, etc.

=item C<Reset>

$request_diff->Reset();  # Reset the object's position  
$request_diff->Reset($pos);  # Move to the specified hunk  
$request_diff->Reset(1);  # Move to the first hunk  
$request_diff->Reset(-1);  # Move to the last hunk  

C<Reset> returns the object, so, for example, you could use C<< $diff->Reset()->Next(-1) >> to get the number of hunks.

=item C<Copy>

$copy = $diff->Copy($newPos, $newBase);

C<Copy> returns a copy of the object. The copy and the original object share most of their data, so making copies takes very little memory. The copy maintains its own position (separate from the original), which is the main purpose of copies. It also maintains its own base.

By default, the copy's position starts out the same as the original object's position. But C<Copy> takes an optional first argument to set the new position, so the following three snippets are equivalent:
$copy = $diff->Copy($pos);

$copy = $diff->Copy();
$copy->Reset($pos);

$copy = $diff->Copy()->Reset($pos);

C<Copy> takes an optional second argument to set the base for the copy. If you wish to change the base of the copy but leave the position the same as in the original, here are two equivalent ways:

$copy = $diff->Copy();
$copy->Base( 0 );

$copy = $diff->Copy(undef,0);

Here are two equivalent way to get a "reset" copy:

$copy = $diff->Copy(0);

$copy = $diff->Copy()->Reset();

=item C<Diff>

$bits = $obj->Diff();

C<Diff> returns a true value iff the current hunk contains items that are different between the two sequences. It actually returns one of the follow 4 values:

=over 4

=item 3

C<3==(1|2)>. This hunk contains items from @seq1 and the items from @seq2 that should replace them. Both sequence 1 and 2 contain changed items so both the 1 and 2 bits are set.

=item 2

This hunk only contains items from @seq2 that should be inserted (not items from @seq1). Only sequence 2 contains changed items so only the 2 bit is set.

=item 1
This hunk only contains items from @seq1 that should be deleted (not items from @seq2). Only sequence 1 contains changed items so only the 1 bit is set.

=item 0

This means that the items in this hunk are the same in both sequences. Neither sequence 1 nor 2 contain changed items so neither the 1 nor the 2 bits are set.

=back

=item C<Same>

C<Same> returns a true value iff the current hunk contains items that are the same in both sequences. It actually returns the list of items if they are the same or an empty list if they aren’t. In a scalar context, it returns the size of the list.

=item C<Items>

$count = $diff->Items(2);
@items = $diff->Items($seqNum);

C<Items> returns the (number of) items from the specified sequence that are part of the current hunk.

If the current hunk contains only insertions, then C<< $diff->Items(1) >> will return an empty list (0 in a scalar context).
If the current hunk contains only deletions, then C<< $diff->Items(2) >> will return an empty list (0 in a scalar context).

If the hunk contains replacements, then both C<< $diff->Items(1) >> and C<< $diff->Items(2) >> will return different, non-empty lists.

Otherwise, the hunk contains identical items and all of the following will return the same lists:

@items = $diff->Items(1);
@items = $diff->Items(2);
@items = $diff->Same();

=item C<Range>

$count = $diff->Range( $seqNum );
@indices = $diff->Range( $seqNum );
@indices = $diff->Range( $seqNum, $base );
C<Range> is like C<Items> except that it returns a list of I<indices> to the items rather than the items themselves. By default, the index of the first item (in each sequence) is 0 but this can be changed by calling the C<Base> method. So, by default, the following two snippets return the same lists:

```perl
@list = $diff->Items(2);
@list = @seq2[ $diff->Range(2) ];
```

You can also specify the base to use as the second argument. So the following two snippets I<always> return the same lists:

```perl
@list = $diff->Items(1);
@list = @seq1[ $diff->Range(1,0) ];
```

```
=item C<Base>
$curBase = $diff->Base();
$oldBase = $diff->Base($newBase);
```

C<Base> sets and/or returns the current base (usually 0 or 1) that is used when you request range information. The base defaults to 0 so that range information is returned as array indices. You can set the base to 1 if you want to report traditional line numbers instead.

```
=item C<Min>
$min1 = $diff->Min(1);
$min = $diff->Min( $seqNum, $base );
```

C<Min> returns the first value that C<Range> would return (given the same arguments) or returns C<undef> if C<Range> would return an empty list.

```
=item C<Max>
C<Max> returns the last value that C<Range> would return or C<undef>.
```

```
=item C<Get>
( $n, $x, $r ) = $diff->Get(qw( min1 max1 range1 ));
@values = $diff->Get(qw( 0min2 1max2 range2 same base ));
```

C<Get> returns one or more scalar values. You pass in a list of the names of the values you want returned. Each name must match one of the following regexes:

``` perl
/^[^-\d+]?\d+?\[(min|max)[12]\]/i
```
The 1 or 2 after a name says which sequence you want the information for (and where allowed, it is required). The optional number before "min" or "max" is the base to use. So the following equalities hold:

\$diff->Get('min1') == \$diff->Min(1)
\$diff->Get('0min2') == \$diff->Min(2,0)

Using C<Get> in a scalar context when you've passed in more than one name is a fatal error (C<die> is called).

=head2 C<prepare>

Given a reference to a list of items, C<prepare> returns a reference to a hash which can be used when comparing this sequence to other sequences with C<LCS> or C<LCS_length>.

\$prep = prepare( \@seq1 );
for Si ( 0 .. 10_000 )
{
   @lcs = LCS( \$prep, \$seq[Si] );
   # do something useful with @lcs
}

C<prepare> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

\$prep = prepare( \@seq1, \&keyGen );
for Si ( 0 .. 10_000 )
{
   @lcs = LCS( \$seq[Si], \$prep, \&keyGen );
   # do something useful with @lcs
}

Using C<prepare> provides a performance gain of about 50% when calling LCS many times compared with not preparing.

=head2 C<diff>

\$diffs = diff( \@seq1, \@seq2 );
\$diffs_ref = diff( \@seq1, \@seq2 );

C<diff> computes the smallest set of additions and deletions necessary to turn the first sequence into the second, and returns a description
of these changes. The description is a list of hunks; each hunk represents a contiguous section of items which should be added, deleted, or replaced. (Hunks containing unchanged items are not included.)

The return value of diff is a list of hunks, or, in scalar context, a reference to such a list. If there are no differences, the list will be empty.

Here is an example. Calling diff for the following two sequences:

```
 a b c e h j l m n p
 b c d e f j k l m r s t
```

would produce the following list:

```
(  
    [ [ '-', 0, 'a' ] ],
    [ [ '+', 2, 'd' ] ],
    [ [ '-', 4, 'h' ],  
      [ '+', 4, 'f' ] ],
    [ [ '+', 6, 'k' ] ],
    [ [ '-', 8, 'n' ],  
      [ '-', 9, 'p' ],  
      [ '+', 9, 'r' ],  
      [ '+', 10, 's' ],  
      [ '+', 11, 't' ] ],
)
```

There are five hunks here. The first hunk says that the C<a> at position 0 of the first sequence should be deleted (C<->). The second hunk says that the C<d> at position 2 of the second sequence should be inserted (C<+>). The third hunk says that the C<h> at position 4 of the first sequence should be removed and replaced with the C<f> from position 4 of the second sequence. And so on.

C<diff> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation routine.

=head2 C<sdiff>
C<sdiff> computes all necessary components to show two sequences
and their minimized differences side by side, just like the
Unix-utility I<sdiff> does:

<table>
<thead>
<tr>
<th>same</th>
<th>same</th>
</tr>
</thead>
<tbody>
<tr>
<td>before</td>
<td>after</td>
</tr>
<tr>
<td>old</td>
<td>&lt;</td>
</tr>
<tr>
<td>-</td>
<td>&gt;</td>
</tr>
</tbody>
</table>

It returns a list of array refs, each pointing to an array of
display instructions. In scalar context it returns a reference
to such a list. If there are no differences, the list will have one
entry per item, each indicating that the item was unchanged.

Display instructions consist of three elements: A modifier indicator
(C<+>: Element added, C<->: Element removed, C<u>: Element unmodified,
C<c>: Element changed) and the value of the old and new elements, to
be displayed side-by-side.

An C<sdiff> of the following two sequences:

    a b c e h j l m n p
    b c d e f j k l m r s t

results in

    (['-', 'a', ''],
     ['u', 'b', 'b'],
     ['u', 'c', 'c'],
     ['+', '', 'd'],
     ['u', 'e', 'e'],
     ['c', 'h', 'f'],
     ['u', 'j', 'j'],
     ['+', '', 'k'],
     ['u', 'l', 'l'],
     ['u', 'm', 'm'],
     ['c', 'n', 'r'],
     ['c', 'p', 's'],
     ['+', '', 't'])

C<sdiff> may be passed an optional third parameter; this is a CODE
reference to a key generation function. See L</KEY GENERATION
FUNCTIONS>. 
Additional parameters, if any, will be passed to the key generation routine.

=head2 C<compact_diff>

C<compact_diff> is much like C<sdiff> except it returns a much more compact description consisting of just one flat list of indices. An example helps explain the format:

my @a = qw( a b c e h j l m n p );
my @b = qw( b c e f j k l m r s t );
@cdiff = compact_diff( \@a, \@b );
# Returns:
# @a   @b   @a   @b
# start start values values
( 0, 0, # =
 0, 0, # a !
 1, 2, # b c = b c
 3, 2, # ! d
 3, 3, # e = e
 4, 4, # f ! h
 5, 5, # j = j
 6, 6, # ! k
 6, 7, # l m = l m
 8, 9, # n p ! r s t
10, 12, #);

The 0th, 2nd, 4th, etc. entries are all indices into @seq1 (@a in the above example) indicating where a hunk begins. The 1st, 3rd, 5th, etc. entries are all indices into @seq2 (@b in the above example) indicating where the same hunk begins.

So each pair of indices (except the last pair) describes where a hunk begins (in each sequence). Since each hunk must end at the item just before the item that starts the next hunk, the next pair of indices can be used to determine where the hunk ends.

So, the first 4 entries (0..3) describe the first hunk. Entries 0 and 1 describe where the first hunk begins (and so are always both 0). Entries 2 and 3 describe where the next hunk begins, so subtracting 1 from each tells us where the first hunk ends. That is, the first hunk contains items C<$diff[0]> through C<$diff[2] - 1> of the first sequence and contains items C<$diff[1]> through C<$diff[3] - 1> of the second sequence.

In other words, the first hunk consists of the following two lists of items:
# 1st pair  2nd pair
# of indices  of indices
@list1 = @a[ $cdiff[0] .. $cdiff[2]-1 ];
@list2 = @b[ $cdiff[1] .. $cdiff[3]-1 ];

# Hunk start  Hunk end

Note that the hunks will always alternate between those that are part of
the LCS (those that contain unchanged items) and those that contain
changes. This means that all we need to be told is whether the first
hunk is a 'same' or 'diff' hunk and we can determine which of the other
hunks contain 'same' items or 'diff' items.

By convention, we always make the first hunk contain unchanged items.
So the 1st, 3rd, 5th, etc. hunks (all odd-numbered hunks if you start
counting from 1) all contain unchanged items. And the 2nd, 4th, 6th,
etc. hunks (all even-numbered hunks if you start counting from 1) all
contain changed items.

Since @a and @b don't begin with the same value, the first hunk in our
example is empty (otherwise we'd violate the above convention). Note
that the first 4 index values in our example are all zero. Plug these
values into our previous code block and we get:

@hunk1a = @a[ 0 .. 0-1 ];
@hunk1b = @b[ 0 .. 0-1 ];

And C<0..-1> returns the empty list.

Move down one pair of indices (2..5) and we get the offset ranges for
the second hunk, which contains changed items.

Since C<@diff[2..5]> contains (0,0,1,0) in our example, the second hunk
consists of these two lists of items:

@hunk2a = @a[ $cdiff[2] .. $cdiff[4]-1 ];
@hunk2b = @b[ $cdiff[3] .. $cdiff[5]-1 ];

# or
@hunk2a = @a[ 0 .. 1-1 ];
@hunk2b = @b[ 0 .. 0-1 ];

# or
@hunk2a = @a[ 0 .. 0 ];
@hunk2b = @b[ 0 .. -1 ];

# or
@hunk2a = ( 'a' );
@hunk2b = ( );

That is, we would delete item 0 ('a') from @a.
Since C<@diff[4..7]> contains (1,0,3,2) in our example, the third hunk consists of these two lists of items:

```perl
@hunk3a = @a[ $cdiff[4] .. $cdiff[6]-1 ];
@hunk3a = @b[ $cdiff[5] .. $cdiff[7]-1 ];
```

# or

```perl
@hunk3a = @a[ 1 .. 3-1 ];
@hunk3a = @b[ 0 .. 2-1 ];
```

# or

```perl
@hunk3a = @a[ 1 .. 2 ];
@hunk3a = @b[ 0 .. 1 ];
```

# or

```perl
@hunk3a = qw( b c );
@hunk3a = qw( b c );
```

Note that this third hunk contains unchanged items as our convention demands.

You can continue this process until you reach the last two indices, which will always be the number of items in each sequence. This is required so that subtracting one from each will give you the indices to the last items in each sequence.

=head2 C<traverse_sequences>

C<traverse_sequences> used to be the most general facility provided by this module (the new OO interface is more powerful and much easier to use).

Imagine that there are two arrows. Arrow A points to an element of sequence A, and arrow B points to an element of the sequence B. Initially, the arrows point to the first elements of the respective sequences. C<traverse_sequences> will advance the arrows through the sequences one element at a time, calling an appropriate user-specified callback function before each advance. It will advance the arrows in such a way that if there are equal elements C<$A[si]>$ and C<$B[sj]>$ which are equal and which are part of the LCS, there will be some moment during the execution of C<traverse_sequences> when arrow A is pointing to C<$A[si]>$ and arrow B is pointing to C<$B[sj]>$>. When this happens, C<traverse_sequences> will call the C<MATCH> callback function and then it will advance both arrows.

Otherwise, one of the arrows is pointing to an element of its sequence that is not part of the LCS. C<traverse_sequences> will advance that arrow and will call the C<DISCARD_A> or the C<DISCARD_B> callback, depending on which arrow it advanced. If both arrows point to elements that are not part of the LCS, then C<traverse_sequences> will advance one of them and call the appropriate callback, but it is not specified.
which it will call.

The arguments to \texttt{C<traverse\_sequences>} are the two sequences to traverse, and a hash which specifies the callback functions, like this:

\begin{verbatim}
traverse_sequences(
  \@seq1, \@seq2,
  \{   MATCH => $callback_1,
        DISCARD_A => $callback_2,
        DISCARD_B => $callback_3,
     \}
);
\end{verbatim}

Callbacks for MATCH, DISCARD\_A, and DISCARD\_B are invoked with at least the indices of the two arrows as their arguments. They are not expected to return any values. If a callback is omitted from the table, it is not called.

Callbacks for A\_FINISHED and B\_FINISHED are invoked with at least the corresponding index in A or B.

If arrow A reaches the end of its sequence, before arrow B does, \texttt{C<traverse\_sequences>} will call the \texttt{C<A\_FINISHED>} callback when it advances arrow B, if there is such a function; if not it will call \texttt{C<DISCARD\_B>} instead. Similarly if arrow B finishes first. \texttt{C<traverse\_sequences>} returns when both arrows are at the ends of their respective sequences. It returns true on success and false on failure. At present there is no way to fail.

\texttt{C<traverse\_sequences>} may be passed an optional fourth parameter; this is a \texttt{CODE} reference to a key generation function. See \texttt{L</KEY GENERATION FUNCTIONS>}. Additional parameters, if any, will be passed to the key generation function.

If you want to pass additional parameters to your callbacks, but don't need a custom key generation function, you can get the default by passing \texttt{undef}:

\begin{verbatim}
traverse_sequences(
  \@seq1, \@seq2,
  \{   MATCH => $callback_1,
        DISCARD_A => $callback_2,
        DISCARD_B => $callback_3,
     \},
  undef,  # default key-gen
  $myArgument1,
  $myArgument2,
\end{verbatim}
C<traverse_sequences> does not have a useful return value; you are expected to plug in the appropriate behavior with the callback functions.

=head2 C<traverse_balanced>

C<traverse_balanced> is an alternative to C<traverse_sequences>. It uses a different algorithm to iterate through the entries in the computed LCS. Instead of sticking to one side and showing element changes as insertions and deletions only, it will jump back and forth between the two sequences and report I<changes> occurring as deletions on one side followed immediately by an insertion on the other side.

In addition to the C<DISCARD_A>, C<DISCARD_B>, and C<MATCH> callbacks supported by C<traverse_sequences>, C<traverse_balanced> supports a C<CHANGE> callback indicating that one element got C<replaced> by another:

```
traverse_balanced(
 \@seq1, \@seq2,
 {   MATCH => $callback_1,
    DISCARD_A => $callback_2,
    DISCARD_B => $callback_3,
    CHANGE   => $callback_4,
 } );
```

If no C<CHANGE> callback is specified, C<traverse_balanced> will map C<CHANGE> events to C<DISCARD_A> and C<DISCARD_B> actions, therefore resulting in a similar behaviour as C<traverse_sequences> with different order of events.

C<traverse_balanced> might be a bit slower than C<traverse_sequences>, noticeable only while processing huge amounts of data.

The C<sdiff> function of this module is implemented as call to C<traverse_balanced>.

C<traverse_balanced> does not have a useful return value; you are expected to plug in the appropriate behavior with the callback functions.

=head1 KEY GENERATION FUNCTIONS

Most of the functions accept an optional extra parameter. This is a CODE reference to a key generating (hashing) function that should return a string that uniquely identifies a given element. It should be the
case that if two elements are to be considered equal, their keys should be the same (and the other way around). If no key generation function is provided, the key will be the element as a string.

By default, comparisons will use "eq" and elements will be turned into keys using the default stringizing operator """. 

Where this is important is when you're comparing something other than strings. If it is the case that you have multiple different objects that should be considered to be equal, you should supply a key generation function. Otherwise, you have to make sure that your arrays contain unique references.

For instance, consider this example:

```perl
package Person;

sub new
{
    my $package = shift;
    return bless { name => '', ssn => '', @_ }, $package;
}

sub clone
{
    my $old = shift;
    my $new = bless { %$old }, ref($old);
}

sub hash
{
    return shift()->{'ssn'};
}

my $person1 = Person->new( name => 'Joe', ssn => '123-45-6789' );
my $person2 = Person->new( name => 'Mary', ssn => '123-47-0000' );
my $person3 = Person->new( name => 'Pete', ssn => '999-45-2222' );
my $person4 = Person->new( name => 'Peggy', ssn => '123-45-9999' );
my $person5 = Person->new( name => 'Frank', ssn => '000-45-9999' );

If you did this:

```perl
my $array1 = [ $person1, $person2, $person4 ];
my $array2 = [ $person1, $person3, $person4, $person5 ];
Algorithm::Diff::diff( $array1, $array2 );
```

everything would work out OK (each of the objects would be converted into a string like "Person=HASH(0x82425b0)" for comparison).
But if you did this:

```perl
my $array1 = [ $person1, $person2, $person4 ];
my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
Algorithm::Diff::diff( $array1, $array2 );
```

$person4 and $person4->clone() (which have the same name and SSN) would be seen as different objects. If you wanted them to be considered equivalent, you would have to pass in a key generation function:

```perl
my $array1 = [ $person1, $person2, $person4 ];
my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
Algorithm::Diff::diff( $array1, $array2, \&Person::hash );
```

This would use the 'ssn' field in each Person as a comparison key, and so would consider $person4 and $person4->clone() as equal.

You may also pass additional parameters to the key generation function if you wish.

=head1 ERROR CHECKING

If you pass these routines a non-reference and they expect a reference, they will die with a message.

=head1 AUTHOR

This version released by Tye McQueen (http://perlmonks.org/?node=tye).

=head1 LICENSE

Parts Copyright (c) 2000-2004 Ned Konz. All rights reserved.
Parts by Tye McQueen.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl.

=head1 MAILING LIST

Mark-Jason still maintains a mailing list. To join a low-volume mailing list for announcements related to diff and Algorithm::Diff, send an empty mail message to mjd-perl-diff-request@plover.com.

=head1 CREDITS

Versions through 0.59 (and much of this documentation) were written by:
Mark-Jason Dominus, mjd-perl-diff@plover.com

This version borrows some documentation and routine names from Mark-Jason's, but Diff.pm's code was completely replaced.

This code was adapted from the Smalltalk code of Mario Wolczko <mario@wolczko.com>, which is available at ftp://st.cs.uiuc.edu/pub/Smalltalk/MANCHESTER/manchester/4.0/diff.st

C<sdiff> and C<traverse_balanced> were written by Mike Schilli <m@perlmeister.com>.

The algorithm is that described in
I<A Fast Algorithm for Computing Longest Common Subsequences>,
CACM, vol.20, no.5, pp.350-353, May 1977, with a few minor improvements to improve the speed.

Much work was done by Ned Konz (perl@bike-nomad.com).

The OO interface and some other changes are by Tye McQueen.

=cut

Found in path(s):
* /opt/cola/permits/1125845623_1611460864.54/0/perl-Algorithm-Diff-1.1903-9.el8-1.src.rpm-cosi-expand-archive-nUoNvfdY/Algorithm-Diff-1.1903.tar.gz-cosi-expand-archive-kCTmmxsM/Algorithm-Diff-1.1903/lib/Algorithm/Diff.pm
No license file was found, but licenses were detected in source scan.

#!/usr/bin/perl -w
#
# `Diff' program in Perl
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
#
# This program is free software; you can redistribute it and/or modify it
# under the same terms as Perl itself.
#
# Altered to output in `context diff' format (but without context)
# September 1998 Christian Murphy (cpm@muc.de)
#
# Command-line arguments and context lines feature added
# September 1998 Amir D. Karger (karger@bead.aecom.yu.edu)
#
# In this file, "item" usually means "line of text", and "item number" usually
# means "line number". But theoretically the code could be used more generally
# use strict;

use Algorithm::Diff qw(diff);
use File::stat;
use vars qw ($opt_C $opt_c $opt_u $opt_U);
use Getopt::Std;

my $usage = "ENDUSAGE"
Usage: $0 [{-c | -u}] [{-C | -U} lines] oldfile newfile
-c will do a context diff with 3 lines of context
-C will do a context diff with 'lines' lines of context
-u will do a unified diff with 3 lines of context
-U will do a unified diff with 'lines' lines of context
ENDUSAGE

getopts('U:C:cu') or bag("Usage");
bag("Usage") unless @ARGV == 2;
my ($file1, $file2) = @ARGV;
if (defined $opt_C || defined $opt_c) {
    $opt_c = "; # -c on if -C given on command line
    $opt_u = undef;
} elsif (defined $opt_U || defined $opt_u) {
    $opt_u = "; # -u on if -U given on command line
    $opt_c = undef;
} else {
    $opt_c = ""; # by default, do context diff, not old diff
}

my ($char1, $char2); # string to print before file names
my $Context_Lines; # lines of context to print
if (defined $opt_c) {
    $context_lines = defined $opt_C ? $opt_C : 3;
    $char1 = '*' x 3; $char2 = '-' x 3;
} elsif (defined $opt_u) {
    $context_lines = defined $opt_U ? $opt_U : 3;
    $char1 = '-' x 3; $char2 = '+' x 3;
}

# After we've read up to a certain point in each file, the number of items
# we've read from each file will differ by $FLD (could be 0)
my $File_Length_Difference = 0;

open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
my (@f1, @f2);
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;

# diff yields lots of pieces, each of which is basically a Block object
my $diffs = diff(\@f1, \@f2);
exit 0 unless @$diffs;

my $st = stat($file1);
print "$char1 $file1\t", scalar localtime($st->mtime), "\n";
$st = stat($file2);
print "$char2 $file2\t", scalar localtime($st->mtime), "\n";

my ($hunk, $oldhunk);
# Loop over hunks. If a hunk overlaps with the last hunk, join them.
# Otherwise, print out the old one.
foreach my $piece (@$diffs) {
  $hunk = new Hunk ($piece, $Context_Lines);
  next unless $oldhunk;
  if ($hunk->does_overlap($oldhunk)) {
    $hunk->prepend_hunk($oldhunk);
  } else {
    $oldhunk->output_diff(\@f1, \@f2);
  }
}
continue {
  $oldhunk = $hunk;
}

# print the last hunk
$oldhunk->output_diff(\@f1, \@f2);
exit 1;
# END MAIN PROGRAM

sub bag {
  my $msg = shift;
  $msg .= "\n";
  warn $msg;
  exit 2;
}

# Package Hunk. A Hunk is a group of Blocks which overlap because of the
# context surrounding each block. (So if we're not using context, every
# hunk will contain one block.)
{
  package Hunk;

  sub new {
    # Arg1 is output from &LCS::diff (which corresponds to one Block)
    # Arg2 is the number of items (lines, e.g..) of context around each block
    # This subroutine changes $File_Length_Difference
my ($class, $piece, $context_items) = $_[0];

my $block = new Block ($piece); # this modifies $FLD!

my $before_diff = $File_Length_Difference; # BEFORE this hunk
my $after_diff = $before_diff + $block->{'length_diff'};
$File_Length_Difference += $block->{'length_diff'};

# @remove_array and @insert_array hold the items to insert and remove
# Save the start & beginning of each array. If the array doesn't exist
# though (e.g., we're only adding items in this block), then figure
# out the line number based on the line number of the other file and
# the current difference in file lengths
my @remove_array = $block->remove;
my @insert_array = $block->insert;
my ($a1, $a2, $b1, $b2, $start1, $start2, $end1, $end2);
$a1 = @remove_array ? $remove_array[0]->{'item_no'} : -1;
$a2 = @remove_array ? $remove_array[-1]->{'item_no'} : -1;
$b1 = @insert_array ? $insert_array[0]->{'item_no'} : -1;
$b2 = @insert_array ? $insert_array[-1]->{'item_no'} : -1;

$start1 = $a1 == -1 ? $b1 - $before_diff : $a1;
$end1   = $a2 == -1 ? $b2 - $after_diff  : $a2;
$start2 = $b1 == -1 ? $a1 + $before_diff : $b1;
$end2   = $b2 == -1 ? $a2 + $after_diff  : $b2;

# At first, a hunk will have just one Block in it
my $hunk = {
  "start1" => $start1,
  "start2" => $start2,
  "end1" => $end1,
  "end2" => $end2,
  "blocks" => [$block],
};
bless $hunk, $class;

$hunk->flag_context($context_items);
return $hunk;
}

# Change the "start" and "end" fields to note that context should be added
# to this hunk
sub flag_context {
    my ($hunk, $context_items) = @_;;
    return unless $context_items; # no context

    # add context before
    my $start1 = $hunk->"start1";
    my $num_added = $context_items > $start1 ? $start1 : $context_items;
    $hunk->"start1" -= $num_added;
    $hunk->"start2" -= $num_added;

    # context after
    my $end1 = $hunk->"end1";
    $num_added = ($end1+$context_items > $#f1) ?
        $#f1 - $end1 :
        $context_items;
    $hunk->"end1" += $num_added;
    $hunk->"end2" += $num_added;
}

# Is there an overlap between hunk arg0 and old hunk arg1?
# Note: if end of old hunk is one less than beginning of second, they overlap
sub does_overlap {
    my ($hunk, $oldhunk) = @_;;
    return "" unless $oldhunk; # first time through, $oldhunk is empty

    # Do I actually need to test both?
    return ($hunk->"start1" - $oldhunk->"end1") <= 1 ||
        $hunk->"start2" - $oldhunk->"end2") <= 1;
}

# Prepend hunk arg1 to hunk arg0
# Note that arg1 isn't updated! Only arg0 is.
sub prepend_hunk {
    my ($hunk, $oldhunk) = @_;;

    $hunk->"start1" = $oldhunk->"start1";
    $hunk->"start2" = $oldhunk->"start2";

    unshift (@ { $hunk->"blocks" }, @ { $oldhunk->"blocks" });
}

# DIFF OUTPUT ROUTINES. THESE ROUTINES CONTAIN DIFF FORMATTING INFO...
sub output_diff {
  if (defined $main::opt_u) {&output_unified_diff(@_)}
  elsif (defined $main::opt_c) {&output_context_diff(@_)}
  else {die "unknown diff"}
}

sub output_unified_diff {
  my ($hunk, $fileref1, $fileref2) = @_;  
  my @blocklist;

  # Calculate item number range.
  my $range1 = $hunk->unified_range(1);
  my $range2 = $hunk->unified_range(2);
  print "@@ -$range1 +$range2 @@
"

  # Outlist starts containing the hunk of file 1.
  # Removing an item just means putting a '-' in front of it.
  # Inserting an item requires getting it from file2 and splicing it in.
  # We splice in $num_added items. Remove blocks use $num_added because
  # splicing changed the length of outlist.
  # We remove $num_removed items. Insert blocks use $num_removed because
  # their item numbers---corresponding to positions in file *2*--- don't take
  # removed items into account.
  my $low = $hunk->"[start1"]
  my $hi = $hunk->"[end1"]
  my ($num_added, $num_removed) = (0,0)
  my @outlist = @$fileref1[$low..$hi]
  map {s/^/ /} @outlist; # assume it's just context

  foreach my $block (@{$hunk->"[blocks"]}) {
    foreach my $item ($block->remove) {
      my $op = $item->"[sign]"; # -
      my $offset = $item->"[item_no"] - $low + $num_added;
      $outlist[$offset] =~ s/^/ $op/
      $num_removed++;
    }
    foreach my $item ($block->insert) {
      my $op = $item->"[sign]"; # +
      my $i = $item->"[item_no"];
      my $offset = $i - $hunk->"[start2"] + $num_removed;
      splice(@outlist,$offset,0,"$op$fileref2[$i]");
      $num_added++;
    }
  }

  map {s/$/
/} @outlist; # add 
's
  print @outlist;
}
sub output_context_diff {
    my ($hunk, $fileref1, $fileref2) = @_; 
    my @blocklist;

    print "*********************************************************************************
    # Calculate item number range. 
    my $range1 = $hunk->context_range(1);
    my $range2 = $hunk->context_range(2);

    # Print out file 1 part for each block in context diff format if there are
    # any blocks that remove items
    print "**** $range1 ****\n";
    my $low = $hunk->"start1";
    my $hi = $hunk->"end1";
    if (@blocklist = grep {$_->remove} @{$hunk->"blocks"}) {
        my @outlist = @$fileref1[$low..$hi];
        map {s/^/  /} @outlist; # assume it's just context
        foreach my $block (@blocklist) {
            my $op = $block->op; # - or !
            foreach my $item ($block->remove) {
                $outlist[$item->"item_no" - $low] =~ s/^/$op/;
            }
            map {s/$/
            print @outlist;
        }
    }

    print "--- $range2 ----\n";
    $low = $hunk->"start2";
    $hi = $hunk->"end2";
    if (@blocklist = grep {$_->insert} @{$hunk->"blocks"}) {
        my @outlist = @$fileref2[$low..$hi];
        map {s/^/ /} @outlist; # assume it's just context
        foreach my $block (@blocklist) {
            my $op = $block->op; # + or !
            foreach my $item ($block->insert) {
                $outlist[$item->"item_no" - $low] =~ s/^/$op/;
            }
            map {s/$/
            print @outlist;
        }
    }
}

sub context_range {     # Generate a range of item numbers to print. Only print 1 number if the range
# has only one item in it. Otherwise, it's 'start,end'
my (Shunk, $flag) = @_;  
my ($start, $end) = (Shunk->{"start$flag"},Shunk->{"end$flag"});  
$start++; $end++;  # index from 1, not zero  
my $range = ($start < $end) ? "$start,$end" : $end;  
return $range;  
}

sub unified_range {  
# Generate a range of item numbers to print for unified diff  
# Print number where block starts, followed by number of lines in the block  
# (don't print number of lines if it's 1)  
my (Shunk, $flag) = @_;  
my ($start, $end) = (Shunk->{"start$flag"},Shunk->{"end$flag"});  
$start++; $end++;  # index from 1, not zero  
my $length = $end - $start + 1;  
my $first = $length < 2 ? $end : $start;  # strange, but correct...  
my $range = $length== 1 ? "$first,$length" : "$first,$length";  
return $range;  
}

} # end Package Hunk

# Package Block. A block is an operation removing, adding, or changing  
# a group of items. Basically, this is just a list of changes, where each  
# change adds or deletes a single item.  
# (Change could be a separate class, but it didn't seem worth it)  
}{
package Block;
sub new {  
# Input is a chunk from &Algorithm::LCS::diff  
# Fields in a block:  
# length_diff - how much longer file 2 is than file 1 due to this block  
# Each change has:  
# sign        - '+' for insert, '-' for remove  
# item_no     - number of the item in the file (e.g., line number)  
# We don't bother storing the text of the item  
#  
my ($class,$chunk) = @_;  
my @changes = ();  

# This just turns each change into a hash.  
foreach my $item (@$chunk) {  
my ($sign, $item_no, $text) = @$item;  
my $hashref = {"sign" => $sign, "item_no" => $item_no};  
push @changes, $hashref;  
}

my $block = { "changes" => \@changes };
bless $block, $class;

$block->{'length_diff'} = $block->insert - $block->remove;
return $block;
}

# LOW LEVEL FUNCTIONS
sub op {
    # what kind of block is this?
    my $block = shift;
    my $insert = $block->insert;
    my $remove = $block->remove;

    $remove && $insert and return '!';
    $remove and return '-';
    $insert and return '+';
    warn "unknown block type";
    return '^'; # context block
}

# Returns a list of the changes in this block that remove items
# (or the number of removals if called in scalar context)
sub remove { return grep {$_->{'sign'} eq '-' } @{shift->{'changes'}}; }

# Returns a list of the changes in this block that insert items
sub insert { return grep {$_->{'sign'} eq '+' } @{shift->{'changes'}}; }
}

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# under the same terms as Perl itself.

Found in path(s):
* /opt/cola/permits/1125845623_1611460864.54/0/perl-Algorithm-Diff-1.1903-9.el8-1.src.rpm-cosi-expand-archive-nUoNvfdY/Algorithm-Diff-1.1903.tar.gz-cosi-expand-archive-kCTmmxsM/Algorithm-Diff-1.1903/cdiff.pl
No license file was found, but licenses were detected in source scan.

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1.2368 semver 2.10.2
1.2368.1 Available under license:

Contributors

Python SemVer library

This document records the primary maintainers and significant contributors to this code base.

Thank you to everyone whose work has made this possible.

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1.2369 xz-java 1.5
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1.2371 spring-boot-starter-jdbc

2.2.6.RELEASE

1.2371.1 Available under license :
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<name>Apache License, Version 2.0</name>

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068412650_1594388078.24/0/spring-boot-starter-jdbc-2-2-6-release-sources-1-
jar/META-INF/maven/org.springframework.boot/spring-boot-starter-jdbc/pom.xml

1.2372 python 2.7.5 39.el7_2

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (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
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All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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1.2376 ini v1.57.0

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1.2386 libaio 0.3.109-13.el7

1.2387 netty-buffer 4.1.51.Final
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* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources.jar/io/netty/buffer/ByteBufHolder.java
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* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources.jar/io/netty/buffer/AdvancedLeakAwareByteBuf.java
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jar/io/netty/buffer/search/SearchProcessor.java
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tomb - support for clean goroutine termination in Go.

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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC

## 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

\texttt{STATIC\_O = ao}

## Compilation rules

\texttt{%.$(STATIC\_O): $(srcdir)/%.c}

\texttt{$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<}

\texttt{%.o: $(srcdir)/%.c}

\texttt{$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<}

\texttt{%.$(STATIC\_O): $(srcdir)/%.cpp}

\texttt{$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<}

\texttt{%.o: $(srcdir)/%.cpp}

\texttt{$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<}

## Dependency rules

\texttt{%.d: $(srcdir)/%.c}

\texttt{@echo "generating dependency information for $<"}

\texttt{@$(SHELL) -ec "$(GEN_DEPS.c) $< \}

\texttt{| sed \"\v$s/([^\^\w])\o[ :]*\w.\o : /g\" > $@; \}

\texttt{| -s $@ ] || rm -f $@’}

\texttt{%.d: $(srcdir)/%.cpp}

\texttt{@echo "generating dependency information for $<"}

\texttt{@$(SHELL) -ec "$(GEN_DEPS.cc) $< \}

\texttt{| sed \"\v$s/([^\^\w])\o[ :]*\w.\o : /g\" > $@; \}

\texttt{| -s $@ ] || rm -f $@’}

## Versioned libraries rules

\texttt{%.$(SO).$(SO\_TARGET\_VERSION\_MAJOR): %.$(SO).$(SO\_TARGET\_VERSION)}

\texttt{$(RM) $@ \&\& ln -s $\{<F\} $@}

\texttt{%.$(SO): %.$(SO).$(SO\_TARGET\_VERSION\_MAJOR)}

\texttt{$(RM) $@ \&\& ln -s $\{*F\}.$(SO).$(SO\_TARGET\_VERSION) $@}

## End FreeBSD-specific setup

### 1.2394 dnf-plugins-core 4.0.12-3.el8

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* /opt/ws_local/PERMITS_SQL/1068412586_1594388376.83/0/spring-tx-5-2-5-release-sources-1-jar/org/springframework/transaction/TransactionManagerSupport.java
* /opt/ws_local/PERMITS_SQL/1068412586_1594388376.83/0/spring-tx-5-2-5-release-sources-1-jar/org/springframework/transaction/TransactionManagerSupport.java
* /opt/ws_local/PERMITS_SQL/1068412586_1594388376.83/0/spring-tx-5-2-5-release-sources-1-jar/org/springframework/transaction/TransactionManagerSupport.java
* /opt/ws_local/PERMITS_SQL/1068412586_1594388376.83/0/spring-tx-5-2-5-release-sources-1-
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068412586_1594388376.83/0/spring-tx-5-2-5-release-sources-1.jar/org/springframework/transaction/support/ResourceHolder.java

### 1.2417 websocket-client 0.57.0

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<signature of Ty Coon>, 1 April 1989
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1.2420 jline-terminal 3.10.0

1.2421 gir1.2-gdkpixbuf-2.0 2.31.6 3.el7

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1.2422 systemd 241-7~deb10u4

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* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/ChannelFuture.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/ChannelPipelineException.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/ChannelOutboundHandlerAdapter.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/socket/SocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/ChannelPromise.java
*/
jar/io/netty/channel/oio/AbstractOioChannel.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-
jar/io/netty/channel/DefaultEventLoop.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-
jar/io/netty/channel/CompleteChannelFuture.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-
jar/io/netty/channel/channel/embedded/EmbeddedSocketAddress.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-
jar/io/netty/channel/ChannelPromiseAggregator.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-
jar/io/netty/channel/package-info.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-
jar/io/netty/channel/oio/OioEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-
jar/io/netty/channel/nio/NioEventLoop.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-
jar/io/netty/channel/AbstractChannelHandlerContext.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-
jar/io/netty/channel/socket/package-info.java
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 */

/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its {@link ChannelPipeline}. 
 *
 * Sub-types
 *
 * [{@link ChannelHandler}] itself does not provide many methods, but you usually have to implement one of its
 * subtypes:
 *
 * Pre-list
 *
 * [ {@link ChannelInboundHandler} to handle inbound I/O events, and]
 *
 * [ {@link ChannelOutboundHandler} to handle outbound I/O operations.]
 *
 * </pre>
 * <p>
 *
 * Alternatively, the following adapter classes are provided for your convenience:
 *
 * Pre-list
 *
 * [ {@link ChannelInboundHandlerAdapter} to handle inbound I/O events,
 *
 * [ {@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and]
 *
 * [ {@link ChannelDuplexHandler} to handle both inbound and outbound events]
 *
 * </ul>
 *
 * </p>
 * p>
 *
 * For more information, please refer to the documentation of each subtype.
 *
 * </p>
 * */
The context object

A `@link ChannelHandlerContext` object. A `@link ChannelHandler` is supposed to interact with the `@link ChannelPipeline` it belongs to via a context object. Using the context object, the `@link ChannelHandler` can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using `@link AttributeKey`)s which is specific to the handler.

State management

A `@link ChannelHandler` often needs to store some stateful information. The simplest and recommended approach is to use member variables:

```java
public interface Message {
    // your methods here
}

public class DataServerHandler extends `@link SimpleChannelInboundHandler<Message>` {
    private boolean loggedIn;

    `@Override`
    public void channelRead0(`@link ChannelHandlerContext` ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else if (message instanceof GetDataMessage) {
            if (loggedIn) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }

    // Create a new handler instance per channel.
    // See `@link ChannelInitializer#initChannel(Channel)`.
    public class DataServerInitializer extends `@link ChannelInitializer`{
        `@Override`
        public void initChannel(`@link Channel` channel) {
            // Create a new handler instance per channel.
            // See `@link ChannelInitializer#initChannel(Channel)`.
            `@code @Override`
            public void initChannel(`@link Channel` channel) {
                // Create a new handler instance per channel.
                // See `@link ChannelInitializer#initChannel(Channel)`.
            }
        }
    }
```
* channel.pipeline().addLast("handler", new DataServerHandler());
* }
* }
* }
* </pre>
* 
* <h4>Using {@link AttributeKey}s</h4>
* 
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use {@link AttributeKey}s which is provided by
* '{@link ChannelHandlerContext}:
* </pre>
* 
* public interface Message {
*     // your methods here
* }
* 
* '{@code @Sharable}
* public class DataServerHandler extends '{@link SimpleChannelInboundHandler}'&{@link Message} {
*     private final '{@link AttributeKey}'&{@link Boolean} auth =
*         '{@link AttributeKey}'&{valueOf(String) AttributeKey.valueOf("auth")};
* 
*     '{@code @Override}
*     public void channelRead('&{@link ChannelHandlerContext} ctx, Message message) {
*         '\{&@{link Attribute}'&{Boolean} attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             \{&@{link Attribute}'&{true} attr.set(true);
*         } else (message instanceof GetDataMessage) {
*             if (Boolean.TRUE.equals(attr.get())) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
*     }
*     ...
* }
* </pre>
* 
* Now that the state of the handler is attached to the '{@link ChannelHandlerContext}', you can add the
* same handler instance to different pipelines:
* </pre>
* 
* public class DataServerInitializer extends '{@link ChannelInitializer}'&{@link Channel} {
*     private static final DataServerHandler SHARED = new DataServerHandler();
* 
*     '{@code @Override}
*     public void initChannel('&{@link Channel} channel) {
*         \{&@{link Channel}'&{Handler} handler = new DataServerHandler();
*         channel.pipeline().addLast("handler", handler);
*         channel.pipeline().addLast("handler", handler);
*         channel.pipeline().addLast("handler", handler);
*         channel.pipeline().addLast("handler", handler);
*     }
* }
```java
channel.pipeline().addLast("handler", SHARED);
```

### The `@Sharable` annotation

In the example above which used an `AttributeKey`, you might have noticed the `@Sharable` annotation.

If a `ChannelHandler` is annotated with the `@Sharable` annotation, it means you can create an instance of the handler just once and add it to one or more `ChannelPipeline`s multiple times without a race condition.

If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

This annotation is provided for documentation purpose, just like the JCIP annotations.

### Additional resources worth reading

Please refer to the `ChannelHandler` and `ChannelPipeline` to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

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* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/pool/ChannelHealthChecker.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolHandler.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/pool/ChannelPool.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/pool/package-info.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/pool/SimpleChannelPool.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/pool/ChannelPoolHandler.java
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* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/pool/MaxBytesRecvByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/CoalescingBufferQueue.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/CoalescingBufferQueue.java

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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// GitHub API docs: https://docs.github.com/en/free-pro-team@latest/rest/reference/licenses/
type LicensesService service

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
    Name *string `json:"name,omitempty"`
    Path *string `json:"path,omitempty"

    SHA     *string `json:"sha,omitempty"`
    Size    *int    `json:"size,omitempty"`
    URL     *string `json:"url,omitempty"`
    HTMLURL *string `json:"html_url,omitempty"`
    GitURL  *string `json:"git_url,omitempty"`
    DownloadURL *string `json:"download_url,omitempty"`
    Type    *string `json:"type,omitempty"`
    Content *string `json:"content,omitempty"`
    Encoding *string `json:"encoding,omitempty"`
    License *License `json:"license,omitempty"
}

func (l RepositoryLicense) String() string {
    return Stringify(l)
}

// License represents an open source license.
type License struct {
    Key    *string `json:"key,omitempty"`
    Name   *string `json:"name,omitempty"`
    URL    *string `json:"url,omitempty"

    SPDXID    *string `json:"spdx_id,omitempty"`
    HTMLURL   *string `json:"html_url,omitempty"
   
Featured *bool `json:"featured,omitempty"`
Description *string `json:"description,omitempty"`
Implementation *string `json:"implementation,omitempty"`
Permissions *[]string `json:"permissions,omitempty"`
Conditions *[]string `json:"conditions,omitempty"`
Limitations *[]string `json:"limitations,omitempty"`
Body *string `json:"body,omitempty"

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://docs.github.com/en/free-pro-team@latest/rest/reference/licenses/#list-all-licenses
func (s *LicensesService) List(ctx context.Context) ([]*License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
    licenses := []*License
    resp, err := s.client.Do(ctx, req, &licenses)
    if err != nil {
        return nil, resp, err
    }
    return licenses, resp, nil
}

// Get extended metadata for one license.
//
// GitHub API docs: https://docs.github.com/en/free-pro-team@latest/rest/reference/licenses/#get-a-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)
    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }
    license := new(License)
    resp, err := s.client.Do(ctx, req, license)
    if err != nil {
        return nil, resp, err
    }
}
return license, resp, nil
}

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tomb - support for clean goroutine termination in Go.

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1.2434 super-csv 2.4.0

1.2435 libxml 2.9.10-3.el7_7.0atomix1
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1.2436 cloud-google-com-go v0.34.0

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package cloud

import (  
  "bytes"  
  "io/ioutil"  
  "os"  
  "path/filepath"  
  "strings"  
  "testing" 
)
var sentinels = []string{
    "Copyright",
    "Google",
    "Licensed under the Apache License, Version 2.0 (the "License");",
}

func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
            return nil
        }
        if strings.HasSuffix(path, ".pb.go") {
            // .pb.go files are generated from the proto files.
            // .proto files must have license headers.
            return nil
        }
        if path == "bigtable/cmd/cbt/cbtdoc.go" {
            // Automatically generated.
            return nil
        }
        if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
            // BSD license, which is compatible, is embedded in the file.
            return nil
        }
        src, err := ioutil.ReadFile(path)
        if err != nil {
            return nil
        }
        src = src[:300] // Ensure all of the sentinel values are at the top of the file.

        // Find license
        for _, sentinel := range sentinels {
            if !bytes.Contains(src, []byte(sentinel)) {
                t.Errorf("%v: license header not present. want %q", path, sentinel)
                return nil
            }
        }
        return nil
    })
    if err != nil {
        t.Fatal(err)
    }
}
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#
# Names should be added to this file as:
# Name <email address>
#
# Keep the list alphabetically sorted.

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Andreas Litt <andreas.litt@gmail.com>
Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
Burcu Dogan <jbd@google.com>
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David Symonds <dSYMonds@golang.org>
Filippo Valsorda <hi@filippo.io>
Glenn Lewis <gmlewis@google.com>
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1.2437 swagger-annotations 2.1.7

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* /opt/cola/permits/1168236992_1621962033.53/0/netty-codec-4-1-63-final-jar/META-INF/maven/io.netty/netty-codec/pom.xml
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Implementation-Title: Netty/Codec
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name: io.netty.codec
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.codec
Implementation-Version: 4.1.63.Final
Built-By: root
Bnd-LastModified: 1617274774525
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: com.google.protobuf;version="[2.6,3)";resolution:=opti
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Bundle-Name: Netty/Codec
Bundle-Version: 4.1.63.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_272
Implementation-URL: https://netty.io/netty-codec/

Found in path(s):
* /opt/cola/permits/1168236992_1621962033.53/0/netty-codec-4-1-63-final-jar/META-INF/MANIFEST.MF

1.2446 x-sync v0.0.0-20201020160332-67f06af15bc9
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1.2447 bcicen-jstream v0.0.0-
20190220045926-16c1f8af81c2

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.  
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.  
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api  
* javax.annotation:javax.annotation-api  
* javax.transaction:javax.transaction-api  
* javax.websocket:javax.websocket-api

------
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.  
http://openjdk.java.net/legal/gplv2+ce.html

------
OW2
The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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  jar/io.netty.handler.codec/protobuf/Varint32LengthFieldPrepender.java
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  jar/io.netty.handler.codec/protobuf/ProtocolDetectionResult.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io.netty.handler.codec/protobuf/protobuf/ProtobufDecoder.java

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jar/io/netty/handler/codec/Headers.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/EmptyHeaders.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/DefaultHeaders.java

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jar/io/netty/handler/codec/json/JsonObjectDecoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/compression/LzfEncoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/compression/Bzip2Constants.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-

jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-jar/io/netty/handler/codec/compression/Lz4Constants.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2
jar/io.netty.handler.codec.MessageAggregationException.java
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 */

/*
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 */

/**
 * Utility class for {@link ByteBuf} that encodes and decodes to and from
 * <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
 *
 * The encoding and decoding algorithm in this class has been derived from
 * <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
 * Base64 Encoder/Decoder</a>.
 */

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* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
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jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/Delimiters.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/DecoderException.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/compression/JZlibDecoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/compression/ZlibDecoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/serialization/SoftReferenceMap.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/serialization/ObjectDecoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/compression/JZlibDecoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/SerializationByteBuf.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/serialization/ObjectEncoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/serialization/CachingClassResolver.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/bytes/package-info.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/serialization/package-info.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/SerializationByteBuf.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/serialization/WeakReferenceMap.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/TooLongFrameException.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/compression/CompressionException.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/PrematureChannelClosureException.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/LineBasedFrameDecoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/compression/JdkZlibEncoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/serialization/ClassResolvers.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/package-info.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/MessageToMessageCodec.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/DecoderResult.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/protobuf/package-info.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/compression/DecompressionException.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/compression/ZlibCodecFactory.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/compression/ZlibEncoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/marshalling/MessageToMessageEncoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/marshalling/MessageToMessageCodec.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/marshalling/MessageToMessageDecoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/compression/DecompressionException.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/compression/ZlibCodecFactory.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/compression/ZlibEncoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
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 */
/**
 * A decoder that splits the received {@link ByteBuf}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 * </p>
 * [@link LengthFieldBasedFrameDecoder] has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 *
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 *
 * The value of the length field in this example is <tt>12 (0x0C)</tt> which
* represents the length of "HELLO, WORLD". By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field. Therefore, it can be decoded with the simplistic parameter
* combination.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 0
* initialBytesToStrip = 0 (= do not strip header)
* 
* BEFORE DECODE (14 bytes)     AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>

* <h3>2 bytes length field at offset 0, strip header</h3>

* Because we can get the length of the content by calling
* @link ByteBuf#readableBytes(), you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>. In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 0
* initialBytesToStrip = 2 (= the length of the Length field)
* 
* BEFORE DECODE (14 bytes)     AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+
* </pre>

* <h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>

* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0

* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
+--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Length | Actual Content |
| 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
+--------+----------------+      +--------+----------------+
</pre>

* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* lengthFieldOffset = 2 (= the length of Header 1)
* lengthFieldLength = 3
* lengthAdjustment = 0
* initialBytesToStrip = 0

* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
+----------+----------+----------------+      +----------+----------+----------------+
| Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
| 0xCAFE  | 0x00000C | "HELLO, WORLD" |      | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
+----------+----------+----------------+      +----------+----------+----------------+
</pre>

* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 3
* <b>lengthAdjustment</b> = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0

* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
+----------+----------+----------------+      +----------+----------+----------------+
|  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
| 0x00000C | 0xCAFE  | "HELLO, WORLD" |      | 0x00000C | 0xCAFE  | "HELLO, WORLD" |
+----------+----------+----------------+      +----------+----------+----------------+
2 bytes length field at offset 1 in the middle of 4 bytes header, strip the first header field and the length field

This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field. The prepended header affects the `<tt>lengthFieldOffset</tt>` and the extra header affects the `<tt>lengthAdjustment</tt>`. We also specified a non-zero header from the frame. If you don't want to strip the prepended header, you could specify `<tt>0</tt>` for `<tt>initialBytesToSkip</tt>`.

```
<pre>
lengthFieldOffset = 1 (= the length of HDR1)
lengthFieldLength = 2
</pre>
```

```
BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
```

```
+-------+--------+-------+----------------+
| HDR1  | Length | HDR2  | Actual Content |
| 0xCA   | 0x000C | 0xFE | "HELLO, WORLD" |
+-------+--------+-------+----------------+
```

```
+-------+--------+-------+----------------+
| HDR2  | Actual Content |
| 0xFE | "HELLO, WORLD" |
+-------+----------------+
```

```
+-------+--------+-------+----------------+
| HDR1  | Length | HDR2  | Actual Content |
| 0xCA   | 0x0010 | 0xFE | "HELLO, WORLD" |
+-------+--------+-------+----------------+
```

```
+-------+--------+-------+----------------+
| HDR2  | Actual Content |
| 0xFE | "HELLO, WORLD" |
+-------+----------------+
```

Let's give another twist to the previous example. The only difference from the previous example is that the length field represents the length of the whole message instead of the message body, just like the third example. We have to count the length of HDR1 and Length into `<tt>lengthAdjustment</tt>`. Please note that we don't need to take the length of HDR2 into account because the length field already includes the whole header length.

```
<pre>
lengthFieldOffset = 1
lengthFieldLength = 2
</pre>
```

```
BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
```

```
+-------+--------+-------+----------------+
| HDR1  | Length | HDR2  | Actual Content |
| 0xCA   | 0x0010 | 0xFE | "HELLO, WORLD" |
+-------+--------+-------+----------------+
```

```
+-------+--------+-------+----------------+
| HDR2  | Actual Content |
| 0xFE | "HELLO, WORLD" |
+-------+----------------+
```

@see LengthFieldPrepender
1.2457 vbatts-go-mtree v0.5.0

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1.2458 jackson-datatype-jsr310 2.12.1

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1.2459 go-restful v2.9.5+incompatible

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1.2460 godbus v0.0.0-20190402143921-271e53dc4968

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1.2461 biogo-store v0.0.0-20160505134755-913427a1d5e8

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1.2462 json-delta 2.0

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1.2463 kubernetes-metrics v0.0.0-20190222100624-62aa511161ba

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1.2464 fipscheck 1.5.0 4.el8

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api
Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
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org.apache.taglibs:taglibs-standard-spec
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
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org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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org.eclipse.jetty.toolchain:jetty-schemas

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1.2473 netcat-openbsd 1.89

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1.2474 nimbus-jose-jwt 4.41.2
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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.
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Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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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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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.2493 jna 4.5.1

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1.2494 animal-sniffer-annotation 1.14

1.2495 jetty-xml 9.4.27.v20200227
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* java.sun.security.ssl

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org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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*/
/**
** Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
** its { @link ChannelPipeline}.  
*
** <h3>Sub-types</h3>
** <p>
** { @link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its

---

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subtypes:
* <ul>
* <li>{@link ChannelInboundHandler} to handle inbound I/O events, and</li>
* <li>{@link ChannelOutboundHandler} to handle outbound I/O operations.</li>
* </ul>
* </p>
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>{@link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
* <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
* <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
* </ul>
* </p>
* For more information, please refer to the documentation of each subtype.
* </p>
*
* <h3>The context object</h3>
* </p>
* A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext} object. A {@link ChannelHandler} is supposed to interact with the
* {@link ChannelPipeline} it belongs to via a context object. Using the
* context object, the {@link ChannelHandler} can pass events upstream or
* downstream, modify the pipeline dynamically, or store the information
* (using {@link AttributeKey})s which is specific to the handler.
* 
* <h3>State management</h3>
*
* A {@link ChannelHandler} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* </pre>
* public interface Message {
* // your methods here
* }
*
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
* 
* <b>private boolean loggedIn;</b>
* 
* [ @code @Override ]
* public void channelRead0( {@link ChannelHandlerContext} ctx, Message message) {
* if (message instanceof LoginMessage) {
* authenticate((LoginMessage) message);
* <b>loggedIn = true;</b>
* } else (message instanceof GetDataMessage) {
* if (<b>loggedIn</b>) {
* ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
* }
Because the handler instance has a state variable which is dedicated to
one connection, you have to create a new handler instance for each new
channel to avoid a race condition where a unauthenticated client can get
the confidential information:

```java
// Create a new handler instance per channel.
// See [ChannelInitializer#initChannel](https://www.example.com).
public class DataServerInitializer extends ChannelInitializer<Channel> {
    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", new DataServerHandler());
    }
}
```

### Using AttributeKey

Although it's recommended to use member variables to store the state of a
handler, for some reason you might not want to create many handler instances.
In such a case, you can use `AttributeKey`s which is provided by
`ChannelHandlerContext`:

```java
public interface Message {
    // your methods here
}

@Sharable
public class DataServerHandler extends SimpleChannelInboundHandler<Message> {
    private final AttributeKey<Boolean> auth = AttributeKey.valueOf("auth");
    
    @Override
    public void channelRead(ChannelHandlerContext ctx, Message message) {
        Attribute<Boolean> attr = ctx.attr(auth);
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) o);
            attr.set(true);
        } else if (message instanceof GetDataMessage) {
            if (Boolean.TRUE.equals(attr.get())) {
```
ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
} else {
    fail();
}

} }

</pre>

Now that the state of the handler is attached to the \{@link ChannelHandlerContext\}, you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends \{@link ChannelInitializer\}\{@link Channel\}\{ @code @Override \}
{
    private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
    @code
    public void initChannel(\{@link Channel\} channel) {
        channel.pipeline().addLast("handler", \{b\>SHARED\<b\>);
    }

    </pre>

The \{@code @Sharable\} annotation

In the example above which used an \{@link AttributeKey\}, you might have noticed the \{@code @Sharable\} annotation.

If a \{@link ChannelHandler\} is annotated with the \{@code @Sharable\} annotation, it means you can create an instance of the handler just once and add it to one or more \{@link ChannelPipeline\}s multiple times without a race condition.

If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

This annotation is provided for documentation purpose, just like \(<a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>\).

Additional resources worth reading

Please refer to the \{@link ChannelHandler\}, and \{@link ChannelPipeline\} to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.
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* /opt/ws_local/P典礼M鼓励_2000年_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/ChannelProgressivePromise.java
* /opt/ws_local/P典礼M鼓励_2000年_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/group/ChannelGroupException.java
* /opt/ws_local/P典礼M鼓励_2000年_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/ChannelOutboundBuffer.java
* /opt/ws_local/P典礼M鼓励_2000年_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/ChannelId.java
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* /opt/ws_local/P典礼M鼓励_2000年_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/AbstractEventLoopGroup.java
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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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* A rewrite of the original Debian's start-stop-daemon Perl script
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* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/contexts/ParameterExpansionContext.java
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* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/RequestHandlerCombiner.java
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* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/contexts/ApiListingContext.java
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* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/schema/GenericTypeNamingStrategy.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/schema/ModelPropertyBuilderPlugin.java
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* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/DefaultsProviderPlugin.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/schema/ModelBuilderPlugin.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/DocumentationPlugin.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/RequestHandlerProvider.java

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* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-
1.2536 j2objc-annotations 1.3

1.2537 readline 6.3-8
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1.2546 xorg-server 1.20.4

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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 3a0982da308228d796df35f98d787ce5cf2bb5b6.

  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.

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---

vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
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Other developers who have contributed code are:

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>>> unicode-5.0

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.
In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.2575 envoy 1.8.1

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envoy_cc_binary(
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  stamped = True,
)

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envoy_cc_binary(
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    stamped = True,
)
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1.2577 pycparser 2.20
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Contributors
-----------

- Chris McDonough, 2011/02/16
- Wichert Akkerman, 2012/02/02

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============================

contextlib2 is a derivative of the contextlib module distributed by the PSF as part of the Python standard library. According, it is itself redistributed under the PSF license (reproduced in full below). As the contextlib module was added only in Python 2.5, the licenses for earlier Python versions are not applicable and have not been included.

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.

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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
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All Python releases are Open Source (see http://www.opensource.org for
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(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
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Just configure this file as the SSLCACertificateFile.#

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1.2585 perl-pod-usage 1.63 3.el7

1.2586 x-time-rate v0.0.0-20191024005414-555d28b269f0

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1.2588 perl 1.23-416.el8

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the 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:
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The End

#!/perl

=head1 NAME

copyright.t

=head1 DESCRIPTION
Tests that the latest copyright years in the top-level README file and the
C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match
reality.

Optionally you can pass the C<--now> option to check they are at the current
year. This isn't checked by default, so that it doesn't fail for people
working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
  skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
  my $current_year = (gmtime)[5] + 1900;
  is $v_year, $current_year, 'perl -v copyright includes current year';
  is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
  is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
  open my $readme, '<', './README' or die "Opening README failed: $!";

1.2589 tar 1.2.11-29.el7

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1.2590 benesch-cgosymbolizer v0.0.0-20180702220239-70e1ee2b39d3

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1.2591 ncurses 5.9-13.20130511.el7

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Upstream source http://invisible-island.net/ncurses/ncurses-examples.html

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Calling this script install-sh is preferred over install.sh, to prevent `make' implicit rules from creating a file called install from it when there is no Makefile.

This script is compatible with the BSD install script, but was written from scratch. It can only install one file at a time, a restriction shared with many OS's install programs.

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1.2592 strace 4.12 9.el7
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use strict;
use lib 't/lib';
use MBTest;
use DistGen;

if (eval { require CPAN::Meta; CPAN::Meta->VERSION(2.142060) }) {
    plan('no_plan');
    require CPAN::Meta::YAML;
    require Parse::CPAN::Meta;
} else {
    plan(skip_all => 'No or old CPAN::Meta');
}

# Ensure any Module::Build modules are loaded from correct directory
blib_load('Module::Build');

#-----------------------------------------------#
# Create test distribution
#-----------------------------------------------#

{ my $dist = DistGen->new( 
    name => 'Simple::Name',
    version => '0.01',
    license => 'perl',
); 

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
is( $mb, "Module::Build" );
is( $mb->license, 'perl',
    "license 'perl' is valid"
);

my $meta = $mb->get_metadata( fatal => 0 );
is_deeply( $meta->{license} => [ 'perl_5' ], "META license will be 'perl'" );
is_deeply( $meta->{resources}{license}, [ "http://dev.perl.org/licenses/" ],
    "META license URL is correct"
);

{
    my $dist = DistGen->new(
        name => 'Simple::Name',
        version => '0.01',
        license => 'VaporWare'
    );

    $dist->regen;
    $dist->chdir_in;

    my $mb = $dist->new_from_context();
    isa_ok( $mb, "Module::Build" );
    is( $mb->license, 'VaporWare',
        "license 'VaporWare' is valid"
    );

    my $meta = $mb->get_metadata( fatal => 0 );

    is_deeply( $meta->{license} => [ 'unrestricted' ], "META license will be 'unrestricted'" );
    is_deeply( $meta->{resources}{license}, [ "http://example.com/vaporware/" ],
        "META license URL is correct"
    );

    }

# Test with alpha number
# vim:ts=2:sw=2:et:sta:sts=2

1.2594 wifi v0.0.0-20200527114002-84f0b9457fdd
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/TypeAdapters.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/JsonTreeReader.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/ArrayTypeAdapter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/ObjectTypeAdapter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/MapTypeAdapterFactory.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/TypeAdapterFactory.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/ReflectiveTypeAdapterFactory.java
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/TypeAdapter.java
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/annotations/JsonAdapter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/JsonAdapterAnnotationTypeAdapterFactory.java

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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/LazilyParsedNumber.java
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/FieldAttributes.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonParser.java
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interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a
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```
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```

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```
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---------------------------------------------------------------------------

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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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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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For an executable, the required form of the "work that uses the
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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DRuntime: Runtime Library for the D Programming Language

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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## Special Recognition ##

One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire buildsystem we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks : but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

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The Red Hat developers, without whom CentOS would look very different

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
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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 combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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Version 3, 29 June 2007

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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.
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d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse
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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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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
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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1.2609 jackson-datatype-jdk8 2.10.3

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* /opt/cola/permits/1147135715_1616895476.95/0/hdrhistogram-2-1-9-sources-8-jar/org/HdrHistogram/IntCountsHistogram.java
* /opt/cola/permits/1147135715_1616895476.95/0/hdrhistogram-2-1-9-sources-8-jar/org/HdrHistogram/Version.java
* /opt/cola/permits/1147135715_1616895476.95/0/hdrhistogram-2-1-9-sources-8-jar/org/HdrHistogram/DoubleLogarithmicIterator.java
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package org.HdrHistogram;

final class Version {
    public static final String version="$VERSION$";
    public static final String build_time="$BUILD_TIME$";
}

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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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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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**1.2629 bridgeutils 1.5 9.el7**

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Signed-off-by: Petr Písar <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
BEGIN {
    $VERSION = '2.167'; # Don't forget to set version and release
}       # date in POD below!

# $| = 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, $n) = @_;  
        carp "Usage:  PACKAGE->new(ARRAYREF, [ARRAYREF])"
+     Carp::croak("Usage:  PACKAGE->new(ARRAYREF, [ARRAYREF])")
        unless (defined($v) && (ref($v) eq 'ARRAY'));
        $n = [] unless (defined($n) && (ref($n) eq 'ARRAY'));

    }  
    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;

@@ -170,11 +169,11 @@ sub Values {  
    return $s;
}  

else {
  croak "Argument to Values, if provided, must be array ref";
}
}
}
else {
  croak "Argument to Names, if provided, must be array ref";
}
}
}
else {
  croak "Can't handle 'Srealtyle' type";
}

Carp::croak("Can't handle \$realtype type");
}

if ($realpack and !$no_bless) { # we have a blessed ref
@@ -1212,9 +1210,10 @@ $Data::Dumper::Deparse I<or> $I<OBJ>->Deparse(I<\[NEWVAL\]>)

Can be set to a boolean value to control whether code references are
turned into perl source code. If set to a true value, C<B::Deparse>
-will be used to get the source of the code reference. Using this option
-will force using the Perl implementation of the dumper, since the fast
-XSUB implementation doesn't support it.
+will be used to get the source of the code reference. In older versions,
+using this option imposed a significant performance penalty when dumping
+parts of a data structure other than code references, but that is no
+longer the case.

Caution : use this option only if you know that your coderefs will be
properly reconstructed by C<B::Deparse>.
@@ -1435,15 +1434,9 @@ the C<Deparse> flag), an anonymous subroutine that
contains the string "DUMMY" will be inserted in its place, and a warning
will be printed if C<Purity> is set. You can C<eval> the result, but bear
in mind that the anonymous sub that gets created is just a placeholder.
-Someday, perl will have a switch to cache-on-demand the string
-representation of a compiled piece of code, I hope. If you have prior
-knowledge of all the code refs that your data structures are likely
-to have, you can use the C<Seen> method to pre-seed the internal reference
-table and make the dumped output point to them, instead. See L</EXAMPLES>
-above.
-
-The C<Deparse> flag makes Dump() run slower, since the XSUB
-implementation does not support it.
+Even using the C<Deparse> flag will in some cases produce results that
+behave differently after being passed to C<eval>; see the documentation
+for L<B::Deparse>.

SCALAR objects have the weirdest looking C<bless> workaround.

@@ -1466,13 +1459,13 @@ be to use the C<Sortkeys> filter of Data::Dumper.

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+Copyright (c) 1996-2017 Gurusamy Sarathy. All rights reserved.
This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.

=head1 VERSION
diff --git a/Dumper.xs b/Dumper.xs
index b22088f..0e7142e 100644
--- a/Dumper.xs
+++ b/Dumper.xs
@@ -63,6 +63,7 @@ typedef struct {
    I32 useqq;
    int use_sparse_seen_hash;
    int trailingcomma;
+    int deparse;
 } Style;

 static STRLEN num_q (const char *s, STRLEN slen);
@@ -369,7 +370,7 @@ esc_q_utf8(pTHX_ SV* sv, const char *src, STRLEN slen, I32 do_utf8, I32 useqq)
 UV k;

     if (do_utf8
-       && ! isASCII(*U8)s)
+       && ! isASCII(*)s)
        /* Exclude non-ASCII low ordinal controls. This should be
         * optimized out by the compiler on ASCII platforms; if not
         * could wrap it in a #ifdef EBCDIC, but better to avoid
@@ -387,11 +388,11 @@ esc_q_utf8(pTHX_ SV* sv, const char *src, STRLEN slen, I32 do_utf8, I32 useqq)
            increment = (k == 0 && *s != '\0') ? 1 : 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
@@ -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;

```c
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;

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
 */
i = perl_call_method(SvPVX_const(style->freezer), G_EVAL|G_VOID|G_DISCARD);
SPAGAIN;
if (SVTRUE(ERRSV))
-warn("WARNING(Freezer method call failed): %"SVf", ERRSV);
+warn("WARNING(Freezer method call failed): %" SVf, ERRSV);
    PUTBACK; FREETMPS; LEAVE;
}

ival = SvRV(val);
realtype = SvTYPE(ival);
#ifdef DD_USE_OLD_ID_FORMAT
-        idlen = my_snprintf(id, sizeof(id), "0x"UVxf, PTR2UV(ival));
+        idlen = my_snprintf(id, sizeof(id), "0x" UVxf, PTR2UV(ival));
#else
id_buffer = PTR2UV(ival);
idlen = sizeof(id_buffer);
#endif
@@ -630,7 +678,7 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV
      *seenhv,
#ifdef DD_USE_OLD_ID_FORMAT
    warn("ref name not found for %s", id);
#else
-        warn("ref name not found for 0x" UVxf, PTR2UV(ival));
+        warn("ref name not found for 0x" UVxf, PTR2UV(ival));
#endif
    return 0;
}
@@ -848,10 +896,10 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV
      *seenhv,
      ilen = inamelen;
      sv_setiv(ixsv, ix);
#ifdef PERL_VERSION < 10
-                (void) sprintf(iname+ilen, "%"IVdf, (IV)ix);
+                (void) sprintf(iname+ilen, "%" IVdf, (IV)ix);
#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
            SV *sname;
            HE *entry = NULL;
            char *key;
-            STRLEN klen;
            SV *hval;
            AV *keys = NULL;
        }
@@ -976,6 +1023,7 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV *seenhv,
                char *nkey_buffer = NULL;
                STRLEN nticks = 0;

                SV* keysv;
                +                STRLEN klen;
                STRLEN keylen;
                STRLEN nlen;
                bool do_utf8 = FALSE;
@@ -1029,7 +1077,7 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV *seenhv,
                        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 
                                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;
+          }
+        }   
+        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%s"UVxf, PTR2UV(val));
+      idlen = my_snprintf(id, sizeof(id), "0x" UVxf, PTR2UV(val));
    #else 
      id_buffer = PTR2UV(val); 
      idlen = sizeof(id_buffer);
@@ -1184,9 +1264,9 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV *
      idlen = my_snprintf(tmpbuf, sizeof(tmpbuf), "%”UVuf, SvUV(val));
      if (SvPOK(val)) { 
        /* Need to check to see if this is a string such as ” 0”. 
I'm assuming from sprintf isn't going to clash with utf8. */
@@ -1412,53 +1492,55 @@ Data_Dumper_Dumpxs(href, ...) 
            && (hv = (HV*)SvRV((SV*)href))
            && SvTYPE(hv) == SVt_PVHV) { 
            -if ((svp = hv_fetch(hv, "seen", 4, FALSE)) && SvROK(*svp)) 
+if ((svp = hv_fetchs(hv, "seen", FALSE)) && SvROK(*svp))
                seenhv = (HV*)SvRV(*svp);
else
    style.use_sparse_seen_hash = 1;
  
if ((svp = hv_fetch(hv, "noseen", 6, FALSE))) 
+if ((svp = hv_fetchs(hv, "noseen", FALSE))
    style.use_sparse_seen_hash = (SvOK(*svp) && SvIV(*svp) != 0);
if ((svp = hv_fetch(hv, "todump", 6, FALSE)) && SvROK(*svp))
  todumpav = (AV*)SvRV(*svp);
if ((svp = hv_fetch(hv, "names", 5, FALSE)) && SvROK(*svp))
  namesav = (AV*)SvRV(*svp);
if ((svp = hv_fetch(hv, "indent", 6, FALSE))
  +if ((svp = hv_fetchs(hv, "indent", FALSE)))
    style.indent = SvIV(*svp);
if ((svp = hv_fetch(hv, "purity", 6, FALSE))
  +if ((svp = hv_fetchs(hv, "purity", FALSE)))
    style.purity = SvIV(*svp);
if ((svp = hv_fetch(hv, "terse", 5, FALSE))
  +if ((svp = hv_fetchs(hv, "terse", FALSE)))
    terse = SvTRUE(*svp);
if ((svp = hv_fetch(hv, "useqq", 5, FALSE))
  +if ((svp = hv_fetchs(hv, "useqq", FALSE)))
    style.useqq = SvTRUE(*svp);
if ((svp = hv_fetch(hv, "pad", 3, FALSE))
  +if ((svp = hv_fetchs(hv, "pad", FALSE)))
    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 = *svp;

Open Source Used In APIC-SE-BATMAN 2.1.1d 34036
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_fetch(hv, "bless", FALSE)))
    style.bless = *svp;
-if ((svp = hv_fetch(hv, "maxdepth", 8, FALSE)))
+if ((svp = hv_fetch(hv, "maxdepth", FALSE)))
    style.maxdepth = SvIV(*svp);
-if ((svp = hv_fetch(hv, "maxrecurse", 10, FALSE)))
+if ((svp = hv_fetch(hv, "maxrecurse", FALSE)))
    style.maxrecurse = SvIV(*svp);
-if ((svp = hv_fetch(hv, "sortkeys", 8, FALSE))) {
+if ((svp = hv_fetch(hv, "sortkeys", FALSE))) {
    SV *sv = *svp;
    if (! SvTRUE(sv))
        style.sortkeys = NULL;
} 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);
}
--- 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;

 {  
@@ -144,4 +144,39 @@ SKIP: {
           &$tests;
       }
+{ # https://rt.perl.org/Ticket/Display.html?id=128524
+    my $want;
+    my $runtime = "runtime";
+    my $requires = "requires";
+    utf8::upgrade(my $runtime = $runtime);
+    utf8::upgrade(my $requires = $requires);
+    for my $run ($runtime, $runtime) {
+        for my $req ($requires, $requires) {
+            my $data = { $run => { $req => { foo => "bar" } } };
+            local $Data::Dumper::Useperl = 1;
+            # we want them all the same
+            defined $want or $want = Dumper($data);
+            is(Dumper( $data ), $want, "utf-8 indents");
+            SKIP:
+              {
+                  defined &Data::Dumper::Dumpxs
+                      or skip "No XS available", 1;
+                  local $Data::Dumper::Useperl = 0;
+                  is(Dumper( $data ), $want, "utf8-indents");
+              }
+        }
+    }
+
+    # RT#130487 - stack management bug in XS deparse
+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");
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( ./t/lib );
    use Testing qw( _dumptostr );

@@ -24,7 +24,9 @@ use Testing qw( _dumptostr );
    note("\$Data::Dumper::Deparse and Deparse()");

-{
 +for my $useperl (0, 1) {
 +    local $Data::Dumper::Useperl = $useperl;
 +
 +    my ($obj, %dumps, $deparse, $starting);
 +    use strict;
 +    my $struct = { foo => "bar\nbaz", quux => sub { "fleem" } };
 +    @ @ -46,11 +48,11 @@ note("\$Data::Dumper::Deparse and Deparse()");
 +    $dumps{'objzero'} = _dumptostr($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)";
 is($dumps{'noprev'}, $dumps{'objempt}',
 -  "No previous setting and Deparse() are equivalent");
 +  "No previous setting and Deparse() are equivalent (useperl=$useperl)";
 is($dumps{'noprev'}, $dumps{'objzero'},
 -  "No previous setting and Deparse(0) are equivalent");
 +  "No previous setting and Deparse(0) are equivalent (useperl=$useperl)";

    local $Data::Dumper::Deparse = 1;
    $obj = Data::Dumper->new( [ $struct ] );
@@ -62,19 +64,19 @@ note("\$Data::Dumper::Deparse and Deparse()");
 $dumps{'objtrue'} = _dumptostr($obj);

    is($dumps{'dddttrue'}, $dumps{'objtrue'},
 -  "\$Data::Dumper::Deparse = 1 and Deparse(1) are equivalent");
 +  "\$Data::Dumper::Deparse = 1 and Deparse(1) are equivalent (useperl=$useperl)";

isn($dumps{`dddzero'}, $dumps{`dddtrue'},
-   "\$Data::Dumper::Deparse = 0 differs from \$Data::Dumper::Deparse = 1");
+   "\$Data::Dumper::Deparse = 0 differs from \$Data::Dumper::Deparse = 1 (useperl=$useperl)");

like($dumps{`dddzero'},
     qr/quux.*?sub.*?DUMMY/s,
-   "\$Data::Dumper::Deparse = 0 reports DUMMY instead of deparsing coderef");
+   "\$Data::Dumper::Deparse = 0 reports DUMMY instead of deparsing coderef (useperl=$useperl)");

unlike($dumps{`dddtrue'},
     qr/quux.*?sub.*?DUMMY/s,
-   "\$Data::Dumper::Deparse = 1 does not report DUMMY");
+   "\$Data::Dumper::Deparse = 1 does not report DUMMY (useperl=$useperl)");

like($dumps{`dddtrue'},
     qr/quux.*?sub.*?use\strict.*?fleem/s,
-   "\$Data::Dumper::Deparse = 1 deparses coderef");
+   "\$Data::Dumper::Deparse = 1 deparses coderef (useperl=$useperl)");
}

--
2.9.3

Found in path(s):
No license file was found, but licenses were detected in source scan.

---

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.

/*

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 pppport.h' to view the documentation below.

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.31

=head1 SYNOPSIS

perl pppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help

--version show version

--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options
--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments

--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files

--strip strip all script and doc functionality from ppport.h

--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.20.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either
C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

=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>
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</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_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>
</tbody>
</table>
my_sprintf()          NEED_my_sprintf          NEED_my_sprintf_GLOBAL
my_strlcat()          NEED_my_strlcat          NEED_my_strlcat_GLOBAL
my_strlcpy()          NEED_my_strlcpy          NEED_my_strlcpy_GLOBAL
newCONSTSUB()          NEED_newCONSTSUB          NEED_newCONSTSUB_GLOBAL
newRV_noinc()          NEED_newRV_noinc          NEED_newRV_noinc_GLOBAL
newSV_type()           NEED_newSV_type           NEED_newSV_type_GLOBAL
newSVpvn_flags()       NEED_newSVpvn_flags       NEED_newSVpvn_flags_GLOBAL
newSVpvn_share()       NEED_newSVpvn_share       NEED_newSVpvn_share_GLOBAL
pv_display()          NEED_pv_display          NEED_pv_display_GLOBAL
pv_escape()            NEED_pv_escape            NEED_pv_escape_GLOBAL
pv_pretty()            NEED_pretty_pretty         NEED_pretty_pretty_GLOBAL
sv_2pv_flags()         NEED_sv_2pv_flags         NEED_sv_2pv_flags_GLOBAL
sv_2pvpbyte()          NEED_sv_2pvpbyte          NEED_sv_2pvpbyte_GLOBAL
sv_catpvnf_mg()        NEED_sv_catpvnf_mg        NEED_sv_catpvnf_mg_GLOBAL
sv_catpvnf_mg_nocontext()  NEED_sv_catpvnf_mg_nocontext    NEED_sv_catpvnf_mg_nocontext_GLOBAL
sv_pvn_force_flags()   NEED_sv_pvn_force_flags   NEED_sv_pvn_force_flags_GLOBAL
sv_setpvnf_mg()        NEED_sv_setpvnf_mg        NEED_sv_setpvnf_mg_GLOBAL
sv_setpvnf_mg_nocontext()  NEED_sv_setpvnf_mg_nocontext   NEED_sv_setpvnf_mg_nocontext_GLOBAL
sv_unmagicext()        NEED_sv_unmagicext        NEED_sv_unmagicext_GLOBAL
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vnewSVpvnf()           NEED_vnewSVpvnf           NEED_vnewSVpvnf_GLOBAL
warner()               NEED_warner               NEED_warner_GLOBAL

To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F<ppport.h> can be run as a Perl script to check your source code. Simply say:

perl ppport.h

The result will usually be a list of patches suggesting changes
that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

```
perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff
```

If you only want your code to be scanned without any suggestions for changes, use:

```
perl ppport.h --nochanges
```

You can specify a different C<diff> program or options, using the C<--diff> option:

```
perl ppport.h --diff='diff -C 10'
```

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

```
perl ppport.h --copy=.new
```

To display portability information for the C<newSVpvn> function, use:

```
perl ppport.h --api-info=newSVpvn
```

Since the argument to C<--api-info> can be a regular expression, you can use

```
perl ppport.h --api-info=/_nomg$/
```

to display portability information for all C<_nomg> functions or

```
perl ppport.h --api-info=/./
```

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.
If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report here: L<https://github.com/mhx/Devel-PPPort/issues/>

Please include the following information:

=over 4

=item 1.
The complete output from running "perl -V"

=item 2.
This file.

=item 3.
The name and version of the module you were trying to build.

=item 4.
A full log of the build that failed.

=item 5.
Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2013, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.
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 = "[ ]";             # 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|n
AvFILLp|5.004050|p
AvFILL||
BhkDISABLE||5.021008|
BhkENABLE||5.021008|
BhkENTRY_set||5.021008|
BhkENTRY||
BhkFLAGS||
CALL_BLOCK_HOOKS||
CLASS||
CPERLscope|5.005000|p
CX_CURPAD_SAVE||
CX_CURPAD_SV||
CopFILEAV|5.006000|p
CopFILEGV_set|5.006000|p
CopFILEGV|5.006000|p
CopFILE_set|5.006000|p
CopFILE|5.006000|p
CopSTASHPV_set|5.006000|p
CopSTASHPV|5.006000|p

Open Source Used In APIC-SE-BATMAN 2.1.1d 34050
CopSTASH_eq|5.006000||p
CopSTASH_set|5.006000||p
CopSTASH|5.006000||p
CopyD|5.009002|5.004050||p
Copy|||
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CvSTASH|||
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DEFSV_set|5.0100001||p
DEFSV|5.004050||p
END_EXTERN_C|5.005000||p
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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|||
GvSVn|5.009003||p
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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|
HvNAMEUTF8|5.015004|
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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|||
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MUTABLE_PTR|5.010001|p
MUTABLE_SV|5.010001|p
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MY_CXT_INIT|5.007003|p
MY_CXT|5.007003|p
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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|||
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OP_CLASS|5.013007|
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perl_magic_overload|5.021008|p
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perl_magic_shared|5.007003|p
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perl_pv_escape_noclear|5.009004|p
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perl_pv_escape_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
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perl_short_min|5.003070|p
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PL_na|5.004050|pn
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PL_peepp|5.007003|n
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PL_ppadder|5.006000|p
PL_rpeepp|5.013005|n
PL_rsfp_filters|5.021008|p
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PL_stdingv|5.004050|p
PL_sv_aremaroot|5.004050|p
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sv_magicext_mglob[]
sv_magicext[5.007003]
sv_magic[]
sv_mortalcopy_flags[]
sv_mortalcopy[]
svncmp[]
sv_newmortal[]
sv_newref[]
sv_nolocking[5.007003]
sv_nosharing[5.007003]
sv_nounlocking[]
sv_nv[5.005000]
sv_only_taint_gmagic
sv_or_pv_pos_u2b
sv.peek
sv_pos_b2u_flags
sv_pos_b2u_midway
sv_pos_b2u
sv_pos_u2b_cached
sv_pos_u2b_flags
sv_pos_u2b_forwards
sv_pos_u2b_midway
sv_pos_u2b
sv_pvbyten_force
sv_pvbyten
sv_pvbyte
sv_pvn_forced_flags
sv_pvn_forced
sv_pvn_nomg
sv_pvn
sv_pvutf8n_force
sv_pvutf8n
sv_pvutf8
sv_pv
sv_recode_to_utf8
sv_reftype
sv_ref
sv_release_COW
sv_replace
sv_report_used
sv_resetpvn
sv_reset
sv_rvweaken
sv_sethek
sv_setiv_mg
sv_setiv
sv_setnv_mg
sv_setnv
sv_setpvn_mg
sv_setpvn
sv_setpvs_mg
sv_setpvs
sv_setpv_mg
sv_setpv
sv_setpvf_mg_nocontext
sv_setpvf_mg
sv_setpvf_nocontext
sv_setpvf
sv_setpvn_mg
sv_setpvn
sv_setpvs_mg
sv_setpvs
sv_setpv
uiv_2buf||n
unlnk||
unpack_rec||
unpack_str[5.007003]
unpackstring[5.008001]
unreferenced_to_tmp_stack||
unshare_hek_or_pvn||
unshare_hck||
unsharepvn[5.003070]
unwind_handler_stack||
update_debugger_info||
upg_version[5.009005]
usage||
utf16_textfilter||
utf16_to_utf8_reversed[5.006001]
utf16_to_utf8[5.006001]
utf8_distance[5.006000]
utf8_hopt[5.006000]
utf8_length[5.007001]
utf8_mg_len_cache_update||
utf8_mg_pos_cache_update||
utf8_to_bytes[5.006001]
utf8_to_uvchr_buf[5.015009]
utf8_to_uvchr[5.007001]
utf8_to_uvuni_buf[5.015009]
utf8_to_uvuni[5.007001]
utf8n_to_uvchr[5.007001]
utf8n_to_uvuni[5.007001]
utilize||
uvchr_to_utf8_flags[5.007003]
uvchr_to_utf8[5.007001]
uvoffuni_to_utf8_flags[5.019004]
uvuni_to_utf8_flags[5.007003]
uvuni_to_utf8[5.007001]
valid_utf8_to_uvchr[5.015009]
valid_utf8_to_uvuni[5.015009]
validate_proto||
validate_suid||
varname||
vcmp[5.009000]
vcroak[5.006000]
vdeb[5.007003]
vform[5.006000]
visit||
vivify_defelem||
vivify_ref||
vload_module[5.006000]
vload_module[5.006000]p
vmess[5.006000]

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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 "$f ", ":`(40-length($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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$function = ["1", ""] if m{^
DPPP_\(my_(\w+)\)\n$};

$replace = "$1" if m{^\s*$rcce\s+Replace:\s+(\w+)\s+\$rcce\s*\$\n$};

$replace{$2} = "$1" if $replace and m{^\s*#\s*define\s+\(\w+\)(?!\(\)\))*\s+\+$rcce\n$};

$replace{$2} = "$1" if m{^\s*#\s*define\s+\(\w+\)(?!\(\)\))*\s+\+$rcce\n$};

$replace{$1} = "$2" if m{^\s*\$rcce\s+Replace \(\w+\) with \(\w+\)\s+\$rcce\s*\$\n$};

if (m{^\s*$rcce\s+\(\w+(\s*,\s*\w+)*)\s+depends\s+\(\w+(\s*,\s*\w+)*)\s+\$rcce\s*\$\n$}) {
  my @deps = map { s////g; $_ } split /,/, $3;
  my $d;
  for $d (map { s////g; $_ } split /,/, $1) {
    push @$deps{${$d}}, @deps;
  }
}

$need{$1} = 1 if m{^#if\s+defined\(\!\NEED_\(%w+\)?_GLOBAL\)\n$};

for (values %depends) {
  my %s;
  $s = [sort grep !s{$_}++, @$_];
}

if (exists $opt{'api-info'}) {
  my $f;
  my $count = 0;
  my $match = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "^Q$opt{'api-info'}\E\n$";
  for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $f =~ /$match/;
    print "=== $f ===

";
    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\'].\n";
print \n";
exit 0;
}
if (exists $opt[\'list-provided\']) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
     next unless $API{$f}{provided};
     my @flags;
     push @flags, 'explicit' if exists $need{$f};
     push @flags, 'depend'   if exists $depends{$f};
     push @flags, 'hint'     if exists $hints{$f};
     push @flags, 'warning'  if exists $warnings{$f};
     my $flags = @flags ? ['join(', ', @flags).'] : "";
     print "$f$flags\n";
}
exit 0;
}
my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;
if (@ARGV) {
   my %seen;
   for (@ARGV) {
      if (-e) {
         if (-f) {
             push @files, $_ unless $seen{$_}++;
         }
         else { warn "$_ is not a file.\n" }
      }
      else {
         my @new = grep { -f } glob $_
         or warn "$_ does not exist.\n";
         push @files, grep { !$seen{$_}++ } @new;
      }
   }
}
else {

eval {
    require File::Find;
    File::Find::find(sub {
        $File::Find::name =~ /($srcext)$/i
        and push @files, $File::Find::name;
    }, '.');
    if ($@) {
        @files = map { glob "*_" } @srcext;
    }
}

if (!@ARGV || $opt{filter}) {
    my(@in, @out);
    my %xsc = map { /(.*)\.xs$/ ? (“$1.c” => 1, “$1.cc” => 1) : () } @files;
    for (@files) {
        my $out = exists $xsc{$_} || /\Q$ppport\E$/i || !/($srcext)$i;/
        push @ { $out ? \@out : \@in }, $_;
    }
    if (@ARGV && @out) {
        warning("Skipping the following files (use --nofilter to avoid this):
| , 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;

$c =~ s{
  (^\S*\#\S*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\b)\b[^\r\n]*)
  | (^\S*\#\S*(?:define|elif|if(?:def)?))\b[^\r\n]*
  | (^[^\r\n]\(?\?:[^\r\n]*\)#\S*\n+$)
  | [^\r\n]\(?\?:[^\r\n]*\)#\S*\n+$
  | /\S*(?:[^$ccs][^\r\n]*\S+)?/ | /\S*\n+$}
edefined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cced" }mgsex;

$file{com} = @ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^\S*\#\S*include[^\r\n]+\b\Q$ppport\E\b[^\r\n]*

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 $c =~ AbPerl$_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) {
        $file{uses}{$_} = 0 unless exists $file{uses}{$_};
        for (@deps) {
          $file{uses}{$_} -= 1 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 =~ \S*$funcb) {
      $file{uses_todo}{$func}++;
    }
  }
}

while ($c =~ /^\S*\#\S*define\S*+(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) {
warning("Doesn't pass interpreter argument aTHX to Perl_$func");

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$file{changes} += $changes;
}
}
}

else {
    warning("Uses Perl_$func instead of $func");
    $file{changes} += ($c =~ s{\bPerl_$func\($s*\)\((s*aTHX_?)?s*\}\{\$func$s1\}\g);  

}
}

for $func (sort keys %{$file{uses_replace}}) {
    warning("Uses $func instead of $replace{$func}");
    $file{changes} += ($c =~ s/a$func\b/$replace{$func}\b/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.*$LF//mg);
    }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = "";
    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}{$func};
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : ''; 
        unless (exists $file{"needed_$type"}{$func}) {
            if ($type eq 'global') {
                diag("Files [@{$global{needs}{$func}}] need $func, adding global request");
            }
            else {
                diag("File needs $func, adding static request");
            }
            $pp .= "#define NEED_$func$suffix\n";
        }
    }
    if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
        $pp = "";
        $file{changes}++;
    }
    unless ($file{has_inc_ppport}) {
        diag("Needs to include \'$ppport\'";
$pp .= qq(#include "$ppport"
)
}

if ($pp) {
    $file{changes} += ($c =~ s/\(^\$(\w+\w+?)(-\w+\w+?)\)$/\1\pp/ms)
    || ($c =~ s/\(^\$(\w+\w+?)(-\w+\w+?)\)$\pp/m)
    || ($c =~ s/\(^\$(\w+\w+?)(-\w+\w+?)\)$\pp/m)
    || ($c =~ s/\(^\$\pp/m);
}
}
else {
    if ($file{has_inc_ppport}) {
        diag("No need to include "$ppport"");
        $file{changes} += ($c =~ s/\(^\$\ppport\)/\pp/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} += $c =~ s/$rcce/$ccom[$ix] $cce/;
    } else {
        $c =~ s/$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{$func}}; 
    @ {$depends{$func}};

sub parse_version
{
    my $ver = shift;

    if ($ver =~ /^\d+\.\d+\.\d+$/) {
        return ($1, $2, $3);
    }
    elsif ($ver !~ /^(\d+)\.(\d+)\.(\d+)$/) {
        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\"\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 "%.%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;
        $rv++;
    }
    if ($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$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 }; 
    \$@ 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;
$pl =~ s/
  / (?:\^[^\*]*\*+(?:[^$ccs][^\*]*\*+)* / | /[\^

/ \^\n]*
  | \([^'\\]*(?:\\\.[^'\\]*)*'
  | ( $HS+ ) \{ defined $2 ? "'\$1 \"" : ($1 \"") \}gsex;
$pl =~ s!\$s+$!mg;
$pl =~ s!^\$LF!!mg;
$pl =~ s!\$s*#s*!mg;
$pl =~ s!\$s++!!mg;

open OUT, ">$0" or die "cannot strip \$0: \$!n";
print OUT "$pl\$c\n";
exit 0;
}

__DATA__
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=head1 NAME

Data::Dumper - stringified perl data structures, suitable for both printing and C<eval>

=head1 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> below.

The default output of self-referential structures can be C<eval>ed, but the nested references to C<$VAR>I<n>$ will be undefined, since a recursive structure cannot be constructed using one Perl statement. You should set the C<Purity> flag to 1 to get additional statements that will correctly fill in these references. Moreover, if C<eval>ed when strictures are in effect, you need to ensure that any variables it accesses are previously declared.

In the extended usage form, the references to be dumped can be given user-specified names. If a name begins with a C<*>, the output will describe the dereferenced type of the supplied reference for hashes and arrays, and coderefs. Output of names will be avoided where possible if the C<Terse> flag is set.

In many cases, methods that are used to set the internal state of the object will return the object itself, so method calls can be conveniently chained together.

Several styles of output are possible, all controlled by setting the C<Indent> flag. See L<Configuration Variables or Methods> below for details.

=head2 Methods

=item I<PACKAGE>->new(I<ARRAYREF [>, I<ARRAYREF]>)

Returns a newly created C<Data::Dumper> object. The first argument is an anonymous array of values to be dumped. The optional second argument is an anonymous array of names for the values. The names need not have a leading C<$> sign, and must be comprised of alphanumeric characters. You can begin a name with a C<*>, to specify that the dereferenced type must be dumped instead of the reference itself, for ARRAY and HASH references.

The prefix specified by C<$Data::Dumper::Varname> will be used with a numeric suffix if the name for a value is undefined.

Data::Dumper will catalog all references encountered while dumping the values. Cross-references (in the form of names of substructures in perl syntax) will be inserted at all possible points, preserving any structural
interdependencies in the original set of values. Structure traversal is
depth-first, and proceeds in order from the first supplied value to
the last.

=item I<$OBJ>->Dump I<or> I<PACKAGE>->Dump(I<ARRAYREF [>, I<ARRAYREF]>)

Returns the stringified form of the values stored in the object (preserving
the order in which they were supplied to C<new>), subject to the
configuration options below. In a list context, it returns a list
of strings corresponding to the supplied values.

The second form, for convenience, simply calls the C<new> method on its
arguments before dumping the object immediately.

=item I<$OBJ>->Seen(I<[HASHREF]>)

Queries or adds to the internal table of already encountered references.
You must use C<Reset> to explicitly clear the table if needed. Such
references are not dumped; instead, their names are inserted wherever they
are encountered subsequently. This is useful especially for properly
dumping subroutine references.

Expect 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

Clears the internal table of "seen" references and returns the object
itself.

=back

=head2 Functions

=over 4

=item Dumper(I<LIST>)

Returns the stringified form of the values in the list, subject to the configuration options below. The values will be named C<$VAR>I<n> in the output, where I<n> is a numeric suffix. Will return a list of strings in a list context.

=back

=head2 Configuration Variables or Methods

Several configuration variables can be used to control the kind of output generated when using the procedural interface. These variables are usually C<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 C<new> method, but cannot be used to alter the state of the object thereafter. The equivalent method names should be used instead to query or set the internal state of the object.

The method forms return the object itself when called with arguments, so that they can be chained together nicely.

=over 4

=item *

$Data::Dumper::Indent I<or> I<$OBJ>->Indent(I<NEWVAL>)

Controls the style of indentation. It can be set to 0, 1, 2 or 3. Style 0 spews output without any newlines, indentation, or spaces between list items. It is the most compact format possible that can still be called valid perl. Style 1 outputs a readable form with newlines but no fancy indentation (each level in the structure is simply indented by a fixed amount of whitespace). Style 2 (the default) outputs a very readable form which takes into account the length of hash keys (so the hash value lines up). Style 3 is like style 2, but also annotates the elements of arrays with their index (but the comment is on its own line, so array output consumes twice the number of lines). Style 2 is the default.
$Data::Dumper::Trailingcomma  I<or>  I<$OBJ>-Trailingcomma(I<[NEWVAL]>)

Controls whether a comma is added after the last element of an array or hash. Even when true, no comma is added between the last element of an array or hash and a closing bracket when they appear on the same line. The default is false.

$Data::Dumper::Purity  I<or>  I<$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.

$Data::Dumper::Pad  I<or>  I<$OBJ>-Pad(I<[NEWVAL]>)

Specifies the string that will be prefixed to every line of the output. Empty string by default.

$Data::Dumper::Varname  I<or>  I<$OBJ>-Varname(I<[NEWVAL]>)

Contains the prefix to use for tagging variable names in the output. The default is "VAR".

$Data::Dumper::Useqq  I<or>  I<$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.

$Data::Dumper::Terse  I<or>  I<$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>n names
will be avoided where possible, but be advised that such output may not
always be parseable by C<eval>.

=item *

$Data::Dumper::Freezer  I<or>  $I<OBJ>-&gt;Freezer(I&lt;NEWVAL&gt;)

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>-&gt;Toaster(I&lt;NEWVAL&gt;)

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&lt;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>-&gt;Deepcopy(I&lt;NEWVAL&gt;)

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>-&gt;Quotekeys(I&lt;NEWVAL&gt;)

Can be set to a boolean value to control whether hash keys are quoted.
A defined false value will avoid quoting hash keys when it looks like a simple
string. Default is 1, which will always enclose hash keys in quotes.
=item *

$Data::Dumper::Bless  I<or>  $I<OBJ>->Bless(I<NEWVAL>)

Can be set to a string that specifies an alternative to the C<bless>
builtin operator used to create objects. A function with the specified
name should exist, and should accept the same arguments as the builtin.
Default is C<bless>.

=item *

$Data::Dumper::Pair  I<or>  $I<OBJ>->Pair(I<NEWVAL>)

Can be set to a string that specifies the separator between hash keys
and values. To dump nested hash, array and scalar values to JavaScript,
use: C<$Data::Dumper::Pair = ": ";>. Implementing C<bless> in JavaScript
is left as an exercise for the reader.
A function with the specified name exists, and accepts the same arguments
as the builtin.
Default is: C< \E<gt> >.

=item *

$Data::Dumper::Maxdepth  I<or>  $I<OBJ>->Maxdepth(I<NEWVAL>)

Can be set to a positive integer that specifies the depth beyond which
we don't venture into a structure. Has no effect when
C<$Data::Dumper::Purity> is set. (Useful in debugger when we often don't
want to see more than enough). Default is 0, which means there is
no maximum depth.

=item *

$Data::Dumper::Maxrecurse  I<or>  $I<OBJ>->Maxrecurse(I<NEWVAL>)

Can be set to a positive integer that specifies the depth beyond which
recursion into a structure will throw an exception. This is intended
as a security measure to prevent perl running out of stack space when
dumping an excessively deep structure. Can be set to 0 to remove the
limit. Default is 1000.

=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 \texttt{C<Data::Dumper>} is used. The \texttt{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.

\texttt{=item *}

\texttt{$Data::Dumper::Sortkeys I<or> $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 \texttt{C<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.

\texttt{=item *}

\texttt{$Data::Dumper::Deparse I<or> $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, \texttt{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 XS UB implementation doesn't support it.

Caution: use this option only if you know that your coderefs will be properly reconstructed by \texttt{C<B::Deparse>}.

\texttt{=item *}

\texttt{$Data::Dumper::Sparseseen I<or> $OBJ->Sparseseen(NEWVAL)}

By default, \texttt{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 \texttt{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 `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 `Sparseseen`, then you must not rely on the content of the seen hash since its contents will be an implementation detail!

=back

=head2 Exports

=over 4

=item Dumper

=back

=head1 EXAMPLES

Run these code snippets to get a quick feel for the behavior of this module. When you are through with these examples, you may want to add or change the various configuration variables described above, to see their behavior. (See the testsuite in the `Data::Dumper` distribution for more examples.)

use `Data::Dumper`;

package `Foo`;
sub new {bless {a => 1, b => sub { return "foo" }}, $_[0]};

package `Fuz`;  # a weird REF-REF-SCALAR object
sub new {bless \$_ = \'fu\'z\', \$_[0]};

package `main`;
$foo = `Foo`->new;
$fuz = `Fuz`->new;
$boo = [1, [], "abcd", $foo, $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');
$e = \@c;
$e = {};
$a = [1, $b, $e];
$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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**VERSION**

Version 2.1.1d (July 11, 2016)

**SEE ALSO**

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* /opt/ws_local/PERMITS_SQL/1009548090_1591903283.05/0/perl-Data-Dumper-2.167-399.el8.src.rpm-cosi-expand-archive-lxnDj2VA/perl-Data-Dumper.spec

**1.2644 trousers 0.3.13 1.el7**

**1.2644.1 Available under license:**

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  jar/io/netty/handler/ssl/Java9SslUtils.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/OcspClientHandler.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/AbstractSniHandler.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/SslCompletionEvent.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/SniCompletionEvent.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/Conscrypt.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/Java9SslEngine.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/Ocsp/package-info.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/OptionalSslHandler.java
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* /opt/cola/permissions/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /opt/cola/permissions/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /opt/cola/permissions/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
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* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/DelegatingSslContext.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/package-info.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/package-info.java
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  jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
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jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
jar/io/netty/handler/ssl/OpenSslJavaxX509Certificate.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
jar/io/netty/handler/ssl/SslContextBuilder.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
jar/io/netty/handler/ssl/ClientAuth.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java

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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
Either create a single parameter accepting the Tuple2,
or consider a pattern matching anonymous function: `{ case (a, b) => ... }
val x: ((Int, Int) => Int) = (((a, b)) => a)
^  
not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
Either create a single parameter accepting the Tuple2,
or consider a pattern matching anonymous function: `{ case (param1, param2) => ... }
val y: ((Int, Int) => Int) = (((a, !)) => a)
^
not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
   Either create a single parameter accepting the Tuple3,
   or consider a pattern matching anonymous function: `case (param1, ..., param3) => ...`
val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
^  three errors found
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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]
Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn’t been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-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-tf 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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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to humanity, the best way to achieve this is to make it
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terms.

To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey
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<one line to give the program's name and a brief idea of what it does.>
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necessary. Here a sample; alter the names:

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program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

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The End

1.2669 antlr-runtime 4.5.3

1.2670 libseccomp 2.3.3-4

1.2670.1 Available under license:

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* javax.websocket:javax.websocket-api
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If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.2676 dimfeld-httppath v0.0.0-
20170720192232-ee938bf73598

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### 1.2677 lua-cjson 2.1.0

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1.2681 jetty-io 9.4.33.v20201020

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.
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1.2682 jetty-http 9.4.42.v20210604

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* javax.transaction:javax.transaction-api
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org.apache.tomcat:tomcat-jasper
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org.eclipse.jetty.toolchain:jetty-schemas

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3.1.0 / 2017-09-26
----------------------------
* Add `DEBUG_HIDE_DATE` env var (#486)
* Remove ReDoS regexp in %o formatter (#504)
* Remove "component" from package.json
* Remove `component.json`
* Ignore package-lock.json
* Examples: fix colors printout
* Fix: browser detection
* Fix: spelling mistake (#496, @EdwardBetts)

3.0.1 / 2017-08-24
----------------------------
* Fix: Disable colors in Edge and Internet Explorer (#489)

3.0.0 / 2017-08-08
----------------------------
* Breaking: Remove DEBUG_FD (#406)
* Breaking: Use `Date#toISOString()` instead to `Date#toUTCString()` when output is not a TTY (#418)
* Breaking: Make millisecond timer namespace specific and allow 'always enabled' output (#408)
* Addition: document `enabled` flag (#465)
* Addition: add 256 colors mode (#481)
* Addition: `enabled()` updates existing debug instances, add `destroy()` function (#440)
* Update: component: update "ms" to v2.0.0
* Update: separate the Node and Browser tests in Travis-CI
* Update: refactor Readme, fixed documentation, added "Namespace Colors" section, redid screenshots
* Update: separate Node.js and web browser examples for organization
* Update: update "browserify" to v14.4.0
* Fix: fix Readme typo (#473)

2.6.9 / 2017-09-22
----------------------------
* remove ReDoS regexp in %o formatter (#504)

2.6.8 / 2017-05-18
----------------------------
* Fix: Check for undefined on browser globals (#462, @marbemac)
2.6.7 / 2017-05-16
==================

* Fix: Update ms to 2.0.0 to fix regular expression denial of service vulnerability (#458, @hubdotcom)
* Fix: Inline extend function in node implementation (#452, @dougwilson)
* Docs: Fix typo (#455, @msasad)

2.6.5 / 2017-04-27
==================

* Fix: null reference check on window.documentElement.style.WebkitAppearance (#447, @thebigredgeek)
* Misc: clean up browser reference checks (#447, @thebigredgeek)
* Misc: add npm-debug.log to .gitignore (@thebigredgeek)

2.6.4 / 2017-04-20
==================

* Fix: bug that would occur if process.env.DEBUG is a non-string value. (#444, @LucianBuzzo)
* Chore: ignore bower.json in npm installations. (#437, @joaovieira)
* Misc: update "ms" to v0.7.3 (@tootallnate)

2.6.3 / 2017-03-13
==================

* Fix: Electron reference to `process.env.DEBUG` (#431, @paulcbetts)
* Docs: Changelog fix (@thebigredgeek)

2.6.2 / 2017-03-10
==================

* Fix: DEBUG_MAX_ARRAY_LENGTH (#420, @slavaGanzin)
* Docs: Add backers and sponsors from Open Collective (#422, @piamancini)
* Docs: Add Slackin invite badge (@tootallnate)

2.6.1 / 2017-02-10
==================

* Fix: Module's `export default` syntax fix for IE8 `Expected identifier` error
* Fix: Whitelist DEBUG_FD for values 1 and 2 only (#415, @pi0)
* Fix: IE8 "Expected identifier” error (#414, @vgoma)
* Fix: Namespaces would not disable once enabled (#409, @musikov)

2.6.0 / 2016-12-28
==================

* Fix: added better null pointer checks for browser useColors (@thebigredgeek)
* Improvement: removed explicit `window.debug` export (#404, @tootallnate)
* Improvement: deprecated `DEBUG_FD` environment variable (#405, @tootallnate)

2.5.2 / 2016-12-25
==================

* Fix: reference error on window within webworkers (#393, @KlausTrainer)
* Docs: fixed README typo (#391, @lurch)
* Docs: added notice about v3 api discussion (@thebigredgeek)

2.5.1 / 2016-12-20
=================

* Fix: babel-core compatibility

2.5.0 / 2016-12-20
=================

* Fix: wrong reference in bower file (@thebigredgeek)
* Fix: webworker compatibility (@thebigredgeek)
* Fix: output formatting issue (#388, @kribblo)
* Fix: babel-loader compatibility (#383, @escwald)
* Misc: removed built asset from repo and publications (@thebigredgeek)
* Misc: moved source files to /src (#378, @yamikuronue)
* Test: added karma integration and replaced babel with browserify for browser tests (#378, @yamikuronue)
* Test: coveralls integration (#378, @yamikuronue)
* Docs: simplified language in the opening paragraph (#373, @yamikuronue)

2.4.5 / 2016-12-17
=================

* Fix: `navigator` undefined in Rhino (#376, @jochenberger)
* Fix: custom log function (#379, @hsiliev)
* Improvement: bit of cleanup + linting fixes (@thebigredgeek)
* Improvement: rm non-maintained `dist` dir (#375, @freewil)
* Docs: simplified language in the opening paragraph. (#373, @yamikuronue)

2.4.4 / 2016-12-14
=================

* Fix: work around debug being loaded in preload scripts for electron (#368, @paulcbetts)

2.4.3 / 2016-12-14
=================

* Fix: navigation.userAgent error for react native (#364, @escwald)

2.4.2 / 2016-12-14
* Fix: browser colors (#367, @toottallnate)
* Misc: travis ci integration (@thebigredgeek)
* Misc: added linting and testing boilerplate with sanity check (@thebigredgeek)

2.4.1 / 2016-12-13

* Fix: typo that broke the package (#356)

2.4.0 / 2016-12-13

* Fix: bower.json references unbuilt src entry point (#342, @justmatt)
* Fix: revert "handle regex special characters" (@toottallnate)
* Feature: configurable util.inspect()’options for NodeJS (#327, @toottallnate)
* Feature: %O´(big O) pretty-prints objects (#322, @toottallnate)
* Improvement: allow colors in workers (#335, @botverse)
* Improvement: use same color for same namespace. (#338, @lchenay)

2.3.3 / 2016-11-09

* Fix: Catch `JSON.stringify()` errors (#195, Jovan Alleyne)
* Fix: Returning `localStorage` saved values (#331, Levi Thomason)
* Improvement: Don't create an empty object when no `process` (Nathan Rajlich)

2.3.2 / 2016-11-09

* Fix: be super-safe in index.js as well (@TooTallNate)
* Fix: should check whether process exists (Tom Newby)

2.3.1 / 2016-11-09

* Fix: Added electron compatibility (#324, @paulcbetts)
* Improvement: Added performance optimizations (@toottallnate)
* Readme: Corrected PowerShell environment variable example (#252, @gimre)
* Misc: Removed yarn lock file from source control (#321, @fengmk2)

2.3.0 / 2016-11-07

* Fix: Consistent placement of ms diff at end of output (#215, @gorangajic)
* Fix: Escaping of regex special characters in namespace strings (#250, @zacronos)
* Fix: Fixed bug causing crash on react-native (#282, @vkarpov15)
* Feature: Enabled ES6+ compatible import via default export (#212 @bucaran)
* Feature: Added `%O` formatter to reflect Chrome's `console.log` capability (#279, @oncletom)
* Package: Update "ms" to 0.7.2 (#315, @DevSide)
* Package: removed superfluous version property from bower.json (#207 @kkirsche)
* Readme: fix USE_COLORS to DEBUG_COLORS
* Readme: Doc fixes for format string sugar (#269, @mlucool)
* Readme: Updated docs for DEBUG_FD and DEBUG_COLORS environment variables (#232, @mattlyons0)
* Readme: doc fixes for PowerShell (#271 #243, @exoticknight @unreadable)
* Readme: better docs for browser support (#224, @matthewmueller)
* Misc: Added yarn integration for development (#317, @thebigredgeek)
* Misc: Renamed History.md to CHANGELOG.md (@thebigredgeek)
* Misc: Added license file (#226 #274, @CantemoInternal @sdaitzman)
* Misc: Updated contributors (@thebigredgeek)

2.2.0 / 2015-05-09
==================

* package: update "ms" to v0.7.1 (#202, @dougwilson)
* README: add logging to file example (#193, @DanielOchoa)
* README: fixed a typo (#191, @amir-s)
* browser: expose `storage` (#190, @stephenmathieson)
* Makefile: add a `distclean` target (#189, @stephenmathieson)

2.1.3 / 2015-03-13
==================

* Updated stdout/stderr example (#186)
* Updated example/stdout.js to match debug current behaviour
* Renamed example/_stderr.js to stdout.js
* Update Readme.md (#184)
* replace high intensity foreground color for bold (#182, #183)

2.1.2 / 2015-03-01
==================

* dist: recompile
* update "ms" to v0.7.0
* package: update "browserify" to v9.0.3
* component: fix "ms.js" repo location
* changed bower package name
* updated documentation about using debug in a browser
* fix: security error on safari (#167, #168, @yields)

2.1.1 / 2014-12-29
==================

* browser: use `typeof` to check for `console` existence
* browser: check for `console.log` truthiness (fix IE 8/9)
* browser: add support for Chrome apps
* Readme: added Windows usage remarks
* Add `bower.json` to properly support bower install

2.1.0 / 2014-10-15
==================

* node: implement `DEBUG_FD` env variable support
* package: update “browserify” to v6.1.0
* package: add “license” field to package.json (#135, @panuhorsmalaha)

2.0.0 / 2014-09-01
==================

* package: update “browserify” to v5.11.0
* node: use stderr rather than stdout for logging (#29, @stephenmathieson)

1.0.4 / 2014-07-15
==================

* dist: recompile
* example: remove `console.info()` log usage
* example: add "Content-Type" UTF-8 header to browser example
* browser: place `%c` marker after the space character
* browser: reset the "content" color via `color: inherit`
* browser: add colors support for Firefox >= v31
* debug: prefer an instance `log()` function over the global one (#119)
* Readme: update documentation about styled console logs for FF v31 (#116, @wryk)

1.0.3 / 2014-07-09
==================

* Add support for multiple wildcards in namespaces (#122, @seegno)
* browser: fix lint

1.0.2 / 2014-06-10
==================

* browser: update color palette (#113, @gscottolson)
* common: make console logging function configurable (#108, @timoxley)
* node: fix `%o` colors on old node <= 0.8.x
* Makefile: find node path using shell/which (#109, @timoxley)

1.0.1 / 2014-06-06
==================

* browser: use `removeItem()` to clear localStorage
* browser, node: don’t set DEBUG if namespaces is undefined (#107, @leedm777)
* package: add "contributors" section
* node: fix comment typo
* README: list authors

1.0.0 / 2014-06-04
==================

* make ms diff be global, not be scope
* debug: ignore empty strings in enable()
* node: make DEBUG_COLORS able to disable coloring
* *: export the `colors` array
* npmignore: don't publish the 'dist' dir
* Makefile: refactor to use browserify
* package: add "browserify" as a dev dependency
* Readme: add Web Inspector Colors section
* node: reset terminal color for the debug content
* node: map "%o" to `util.inspect()`
* browser: map "%j" to `JSON.stringify()`
* debug: add custom "formatters"
* debug: use "ms" module for humanizing the diff
* Readme: add "bash" syntax highlighting
* browser: add Firebug color support
* browser: add colors for WebKit browsers
* node: apply log to `console`
* rewrite: abstract common logic for Node & browsers
* add .jshintrc file

0.8.1 / 2014-04-14
==================

* package: re-add the "component" section

0.8.0 / 2014-03-30
==================

* add `enable()` method for nodejs. Closes #27
* change from stderr to stdout
* remove unnecessary index.js file

0.7.4 / 2013-11-13
==================

* remove "browserify" key from package.json (fixes something in browserify)

0.7.3 / 2013-10-30
==================

* fix: catch localStorage security error when cookies are blocked (Chrome)
* add debug(err) support. Closes #46
* add .browser prop to package.json. Closes #42

0.7.2 / 2013-02-06
==================

* fix package.json
* fix: Mobile Safari (private mode) is broken with debug
* fix: Use unicode to send escape character to shell instead of octal to work with strict mode javascript

0.7.1 / 2013-02-05
==================

* add repository URL to package.json
* add DEBUG_COLORED to force colored output
* add browserify support
* fix component. Closes #24

0.7.0 / 2012-05-04
==================

* Added .component to package.json
* Added debug.component.js build

0.6.0 / 2012-03-16
==================

* Added support for "." prefix in DEBUG [Vinay Pulim]
* Added `.enabled` flag to the node version [TooTallNate]

0.5.0 / 2012-02-02
==================

* Added: humanize diffs. Closes #8
* Added `debug.disable()` to the CS variant
* Removed padding. Closes #10
* Fixed: persist client-side variant again. Closes #9

0.4.0 / 2012-02-01
==================

* Added browser variant support for older browsers [TooTallNate]
* Added `debug.enable('project:*')` to browser variant [TooTallNate]
* Added padding to diff (moved it to the right)

0.3.0 / 2012-01-26
==================
* Added millisecond diff when isatty, otherwise UTC string

0.2.0 / 2012-01-22
==================

* Added wildcard support

0.1.0 / 2011-12-02
==================

* Added: remove colors unless stderr isatty [TooTallNate]

0.0.1 / 2010-01-03
==================

* Initial release

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General
Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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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
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
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.

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as the successor of the GNU Library Public License, version 2, hence
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Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
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strategy to use in any particular case, based on the explanations below.

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot 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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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.
b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the 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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3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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Specifically, the GPL parts of FFmpeg are:

- libpostproc
- optional x86 optimization in the files
  - `libavcodec/x86/flac_dsp_gpl.asm`
  - `libavcodec/x86/idct_mmx.c`
  - `libavfilter/x86/vf_removegrain.asm`
- the following building and testing tools
  - `compat/solaris/make_sunver.pl`
  - `doc/t2h.pm`
  - `doc/texi2pod.pl`
  - `libswresample/tests/swresample.c`
  - `tests/checkasm/*`
  - `tests/tiny_ssim.c`
- the following filters in libavfilter:
  - `signature_lookup.c`
  - `vf_blackframe.c`
  - `vf_boxblur.c`
  - `vf_colormatrix.c`
  - `vf_cover_rect.c`
  - `vf_cropdetect.c`
  - `vf_delogo.c`
  - `vf_eq.c`
  - `vf_find_rect.c`
  - `vf_fspp.c`
Should you, for whatever reason, prefer to use version 3 of the (L)GPL, then the configure parameter `--enable-version3` will activate this licensing option for you. Read the file `COPYING.LGPLv3` or, if you have enabled GPL parts, `COPYING.GPLv3` to learn the exact legal terms that apply in this case.

There are a handful of files under other licensing terms, namely:

* The files `libavcodec/jfdctfst.c`, `libavcodec/jfdctint_template.c` and `libavcodec/jrevdct.c` are taken from libjpeg, see the top of the files for licensing details. Specifically note that you must credit the IJG in the documentation accompanying your program if you only distribute executables. You must also indicate any changes including additions and deletions to those three files in the documentation.
* `tests/reference.pnm` is under the expat license.

## External libraries

FFmpeg can be combined with a number of external libraries, which sometimes affect the licensing of binaries resulting from the combination.

### Compatible libraries
The following libraries are under GPL version 2:
- avisynth
- frei0r
- libcdio
- libdavs2
- librubberband
- libvidstab
- libx264
- libx265
- libxavs
- libxavs2
- libxvid

When combining them with FFmpeg, FFmpeg needs to be licensed as GPL as well by passing `--enable-gpl` to configure.

The following libraries are under LGPL version 3:
- gmp
- libaribb24
- liblensfun

When combining them with FFmpeg, use the configure option `--enable-version3` to upgrade FFmpeg to the LGPL v3.

The VMAF, mbedtls, RK MPI, OpenCORE and VisualOn libraries are under the Apache License 2.0. That license is incompatible with the LGPL v2.1 and the GPL v2, but not with version 3 of those licenses. So to combine these libraries with FFmpeg, the license version needs to be upgraded by passing `--enable-version3` to configure.

The smbclient library is under the GPL v3, to combine it with FFmpeg, the options `--enable-gpl` and `--enable-version3` have to be passed to configure to upgrade FFmpeg to the GPL v3.

### Incompatible libraries

There are certain libraries you can combine with FFmpeg whose licenses are not compatible with the GPL and/or the LGPL. If you wish to enable these libraries, even in circumstances that their license may be incompatible, pass `--enable-nonfree` to configure. This will cause the resulting binary to be unredistributable.

The Fraunhofer FDK AAC and OpenSSL libraries are under licenses which are incompatible with the GPLv2 and v3. To the best of our knowledge, they are compatible with the LGPL.

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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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Computer graphics and geometric modeling: implementation and algorithms
By Max K. Agoston
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Qt port of geosimplify.js, https://github.com/mapbox/geosimplify-js

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A tiny JavaScript debugging utility modelled after Node.js core's debugging technique. Works in Node.js and web browsers.

## Installation

```bash
$ npm install debug
```

## Usage

`debug` exposes a function; simply pass this function the name of your module, and it will return a decorated version of `console.error` for you to pass debug statements to. This will allow you to toggle the debug output for different parts of your module as well as the module as a whole.

Example `[_app.js](./examples/node/app.js)`:

```js
var debug = require('debug')('http')
  , http = require('http')
  , name = 'My App';

// fake app

data('booting %o', name);

http.createServer(function(req, res){
  debug(req.method + ' ' + req.url);
});
```
Example `_worker.js_`(/examples/node/worker.js):

```
```
```cmd
set DEBUG="*,-not_this"
```  
Example:

```cmd
set DEBUG="* & node app.js
```  

##### PowerShell (VS Code default)

PowerShell uses different syntax to set environment variables.

```cmd
$env:DEBUG = "*,-not_this"
```  
Example:

```cmd
$env:DEBUG='app';node app.js
```  

Then, run the program to be debugged as usual.

npm script example:

```js
"windowsDebug": 
"@powershell -Command $env:DEBUG="*;node app.js",
```  

#### Namespace Colors

Every debug instance has a color generated for it based on its namespace name. This helps when visually parsing the debug output to identify which debug instance a debug line belongs to.

##### Node.js

In Node.js, colors are enabled when stderr is a TTY. You also _should_ install the `supports-color` module alongside debug, otherwise debug will only use a small handful of basic colors.

<img width="521" src="https://user-images.githubusercontent.com/71256/29092181-47f6a9e6-7c3a-11e7-9a14-1928d8a711cd.png">

##### Web Browser
Colors are also enabled on "Web Inspectors" that understand the `\%c` formatting option. These are WebKit web inspectors, Firefox ([since version 31](https://hacks.mozilla.org/2014/05/editable-box-model-multiple-selection-sublime-text-keys-much-more-firefox-developer-tools-episode-31/)) and the Firebug plugin for Firefox (any version).

![image](https://user-images.githubusercontent.com/71256/29092033-b65f9f2e-7c39-11e7-8e32-f6f0d8e865c1.png)

## Millisecond diff

When actively developing an application it can be useful to see when the time spent between one `debug()` call and the next. Suppose for example you invoke `debug()` before requesting a resource, and after as well, the `+NNNms` will show you how much time was spent between calls.

![image](https://user-images.githubusercontent.com/71256/29091486-fa38524c-7c37-11e7-895f-e7ec8e1039b6.png)

When stdout is not a TTY, `Date#toISOString()` is used, making it more useful for logging the debug information as shown below:

![image](https://user-images.githubusercontent.com/71256/29091956-6bd78324c-7c39-11e7-8c55-c948396d6edd.png)

## Conventions

If you're using this in one or more of your libraries, you _should_ use the name of your library so that developers may toggle debugging as desired without guessing names. If you have more than one debuggers you _should_ prefix them with your library name and use `:` to separate features. For example "bodyParser" from Connect would then be "connect:bodyParser". If you append a `*` to the end of your name, it will always be enabled regardless of the setting of the DEBUG environment variable. You can then use it for normal output as well as debug output.

## Wildcards

The `*` character may be used as a wildcard. Suppose for example your library has debuggers named "connect:bodyParser", "connect:compress", "connect:session", instead of listing all three with

```
`DEBUG=connect:bodyParser,connect:compress,connect:session`
```

you may simply do

```
`DEBUG=connect:*`
```

or to run everything using this module simply use `DEBUG=*`.

You can also exclude specific debuggers by prefixing them with a `-` character. For example, `DEBUG=*,connect:*` would include all debuggers except those starting with "connect:.

## Environment Variables
When running through Node.js, you can set a few environment variables that will change the behavior of the debug logging:

<table>
<thead>
<tr>
<th>Name</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>DEBUG</code></td>
<td>Enables/disables specific debugging namespaces.</td>
</tr>
<tr>
<td><code>DEBUG_HIDE_DATE</code></td>
<td>Hide date from debug output (non-TTY).</td>
</tr>
<tr>
<td><code>DEBUG_COLORS</code></td>
<td>Whether or not to use colors in the debug output.</td>
</tr>
<tr>
<td><code>DEBUG_DEPTH</code></td>
<td>Object inspection depth.</td>
</tr>
<tr>
<td><code>DEBUG_SHOW_HIDDEN</code></td>
<td>Shows hidden properties on inspected objects.</td>
</tr>
</tbody>
</table>

__Note:__ The environment variables beginning with `DEBUG_` end up being converted into an Options object that gets used with `%o`/%O formatters. See the Node.js documentation for[`util.inspect()`](https://nodejs.org/api/util.html#util_util_inspect_object_options) for the complete list.

## Formatters

Debug uses [printf-style](https://wikipedia.org/wiki/Printf_format_string) formatting. Below are the officially supported formatters:

<table>
<thead>
<tr>
<th>Formatter</th>
<th>Representation</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>%O</code></td>
<td>Pretty-print an Object on multiple lines.</td>
</tr>
<tr>
<td><code>%o</code></td>
<td>Pretty-print an Object all on a single line.</td>
</tr>
<tr>
<td><code>%s</code></td>
<td>String.</td>
</tr>
<tr>
<td><code>%d</code></td>
<td>Number (both integer and float).</td>
</tr>
<tr>
<td><code>%j</code></td>
<td>JSON. Replaced with the string '[Circular]' if the argument contains circular references.</td>
</tr>
<tr>
<td><code>%%</code></td>
<td>Single percent sign ('%'). This does not consume an argument.</td>
</tr>
</tbody>
</table>

### Custom formatters

You can add custom formatters by extending the `debug.formatters` object. For example, if you wanted to add support for rendering a Buffer as hex with `%h`, you could do something like:

```js
const createDebug = require('debug')
createDebug.formatters.h = (v) => {  
  return v.toString('hex')
}
```

// elsewhere
const debug = createDebug('foo')
debug('this is hex: %h', new Buffer('hello world'))
// foo this is hex: 68656c6c6f20776f726c6421 +0ms
```

## Browser Support

You can build a browser-ready script using [browserify](https://github.com/substack/node-browserify), or just use the [browserify-as-a-service](https://wzrd.in/) [build](https://wzrd.in/standalone/debug@latest), if you don't want to build it yourself.

Debug's enable state is currently persisted by `localStorage`. Consider the situation shown below where you have `worker:a` and `worker:b`, and wish to debug both. You can enable this using `localStorage.debug`:

```js
localStorage.debug = 'worker:*'
```  

And then refresh the page.

```js
a = debug('worker:a');
b = debug('worker:b');

setInterval(function(){
a('doing some work');
}, 1000);

setInterval(function(){
b('doing some work');
}, 1200);
```

## Output streams

By default `debug` will log to stderr, however this can be configured per-namespace by overriding the `log` method:

Example `_stdout.js_`([examples/node/stdout.js](./examples/node/stdout.js)):

```js
var debug = require('debug');
var error = debug('app:error');

// by default stderr is used
error('goes to stderr!');
```
```js
var log = debug('app:log');
// set this namespace to log via console.log
log.log = console.log.bind(console); // don't forget to bind to console!
log('goes to stdout');
error('still goes to stderr!');

// set all output to go via console.info
// overrides all per-namespace log settings
deq.log = console.info.bind(console);
error('now goes to stdout via console.info');
log('still goes to stdout, but via console.info now');
```

## Extend

You can simply extend debugger
```js
const log = require('debug')('auth');
```  
// creates new debug instance with extended namespace  
const logSign = log.extend('sign');
const logLogin = log.extend('login');

log('hello'); // auth hello
logSign('hello'); //auth:sign hello
logLogin('hello'); //auth:login hello
```

## Set dynamically

You can also enable debug dynamically by calling the `enable()` method :
```js
let debug = require('debug');

console.log(1, debug.enabled('test'));

debug.enable('test');
console.log(2, debug.enabled('test'));
debug.disable();
console.log(3, debug.enabled('test'));
```

print :
``` 1 false```
2 true
3 false
```

Usage:
`enable(namespaces)`
`namespaces` can include modes separated by a colon and wildcards.

Note that calling `enable()` completely overrides previously set DEBUG variable:
```
```

## Checking whether a debug target is enabled

After you've created a debug instance, you can determine whether or not it is enabled by checking the `enabled` property:
```javascript
```javascript
const debug = require('debug')('http');

if (debug.enabled) {
  // do stuff...
}
```

You can also manually toggle this property to force the debug instance to be enabled or disabled.

## Authors

- TJ Holowaychuk
- Nathan Rajlich
- Andrew Rhyne

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--- end of FTL.TXT ---

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Mesa Component Licenses

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jpeg
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(extracted from src/README)

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libunwind
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Libxml2, an XML C Parser

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April 29, 2008

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The obligations under this Section 9 shall continue to remain in force for a period of five (5) years after the last disclosure, and, with respect to trade secrets, for so long as such trade secrets are protected under applicable trade secret laws.

10. FEES, DELIVERY AND PAYMENT

10.1 License Fees

License Fees are described in The Qt Company's standard price list, quote or Purchase Order confirmation or in an appendix hereto, as the case may be. The License Fees shall not be refunded or claimed as a credit, even on the ground that Distribution Licenses are not used, i.e. Redistributables are not actually distributed corresponding to the Distribution Licenses purchased, or for any other reason.

10.2 Ordering Licenses

Licensee may purchase Development Licenses and Distribution Licenses pursuant to agreed pricing terms or, if no specific pricing terms have been agreed upon, at The Qt Company's standard pricing terms applicable at the time of purchase.

Licensee shall submit all purchase orders for Development Licenses and Distribution Licenses to The Qt Company by email or any other method acceptable to The Qt Company (each such order is referred to herein as a "Purchase Order") for confirmation, whereupon the Purchase Order shall become binding between the Parties.

10.3 Distribution

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Upon due payment of the ordered Distribution License Pack(s), the Licensee will have an account of Distribution Licenses available for installing, bundling or integrating (all jointly "installing") the Redistributables with the Devices or for otherwise distributing the Redistributables in accordance with this Agreement.

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Redistributables will be deemed to have been "installed" into a Device when one of the following circumstances shall have occurred: a) the Redistributables have been loaded onto the Device and used outside of the Licensee's premises or b) the Device has been fully tested and placed into Licensee's inventory (or sold) for the first time (i.e., Licensee will not be required to use (or pay for) more than one Distribution License for each individual Device, e.g. in a situation where a Device is returned to Licensee's inventory after delivery to a distributor or sale to a Customer). In addition, if Licensee includes a back-up copy of the Redistributables on a CD-ROM or other storage medium along with the product, that backup copy of the Redistributables will not be deemed to have been "installed" and will not require an additional Distribution License.

10.4 Payment Terms
License Fees and any other charges under this Agreement shall be paid by Licensee no later than thirty (30) days from the date of the applicable invoice from The Qt Company.

The Qt Company will submit an invoice to Licensee after the date of this Agreement and/or after The Qt Company receives a Purchase Order from Licensee. A late payment charge of the lower of (a) one percent per month; or (b) the interest rate stipulated by applicable law, shall be charged on any unpaid balances that remain past due.

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10.5 Taxes
All License Fees and other charges payable hereunder are gross amounts but exclusive of any value added tax, use tax, sales tax and other taxes, duties or tariffs ("Taxes"). Such applicable Taxes shall be paid by Licensee, or, where
applicable, in lieu of payment of such Taxes, Licensee shall provide an exemption certificate to The Qt Company and any applicable authority.

11 RECORD-KEEPING AND REPORTING OBLIGATIONS; AUDIT RIGHTS

11.1 Licensee's Record-keeping

Licensee shall at all times maintain accurate and up-to-date written records of Licensee's activities related to the use of Licensed Software and distribution of Redistributables. The records shall be adequate to determine Licensee's compliance with the provisions of this Agreement and to demonstrate the number of Designated Users and Redistributables distributed by Licensee. The records shall conform to good accounting practices reasonably acceptable to The Qt Company.

Licensee shall, within thirty (30) days from the end of each calendar quarter, deliver to The Qt Company a report detailing the number of Designated Users and copies of Redistributables distributed by Licensee during that calendar quarter, and also detailing the number of undistributed copies of Redistributables made by Licensee and remaining in its account (i.e., undistributed copies for which Distribution Licenses have been or need to be obtained from The Qt Company). Such report shall contain such other information as The Qt Company shall reasonably require from time to time.

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If an audit reveals that Licensee is using the Licensed Software beyond scope of the licenses Licensee has paid for, Licensee agrees to immediately pay The Qt Company any amounts owed for such unauthorized use.

In addition, in the event the audit reveals a material violation of the terms of this Agreement (underpayment of more than 5% of License Fees shall always be deemed a material violation for purposes of this section), then the Licensee shall pay The Qt Company's reasonable cost of conducting such audit.

12 TERM AND TERMINATION
12.1 Term

This Agreement shall enter into force upon due acceptance by both Parties and remain in force for the Term, unless and until terminated pursuant to the terms of this Section 12.

12.2 Termination by The Qt Company

The Qt Company shall have the right to terminate this Agreement upon thirty (30) days prior written notice if (i) the Licensee is in material breach of any obligation of this Agreement and fails to remedy such breach within such notice period; (ii) or Licensee or any of its Affiliates bring a suit before any court or administrative agency or otherwise assert a claim against The Qt Company's or any of its Affiliates' Intellectual Property Rights or validity thereof.

12.3 Mutual Right to Terminate

Either Party shall have the right to terminate this Agreement immediately upon written notice in the event that the other Party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other Party.

12.4 Parties Rights and Duties upon Termination

Upon expiry or termination of the Agreement for any reason, Licensee shall, within 30 days after such termination, cease and shall cause all Designated Users (including those of its Affiliates' and Contractors') and Licensee's SDK Contractors to cease using the Licensed Software and distribution of the Redistributables under this Agreement. Notwithstanding the above, in the event the Agreement expires or is terminated for reason other than by The Qt Company pursuant to Section 12.2, the Licensee is entitled, for a period of six (6) months after the effective date of termination, to continue distribution of Devices under the Distribution Licenses paid but unused at such effective date of termination.

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Expiry or termination of this Agreement for any reason whatsoever shall not relieve Licensee of its obligation to pay any License Fees accrued or payable to The Qt Company prior to the effective date of termination, and Licensee shall
immediately pay to The Qt Company all such fees upon the effective date of termination. Termination of this Agreement shall not affect any rights of Customers to continue use of Applications and Devices (and therein incorporated Redistributables).

13. GOVERNING LAW AND LEGAL VENUE

In the event this Agreement is in the name of The Qt Company Inc., a Delaware Corporation, then:

(i) this Agreement shall be construed and interpreted in accordance with the laws of the State of California, USA, excluding its choice of law provisions;

(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and

(iii) any dispute, claim or controversy arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this Agreement to arbitrate, shall be determined by arbitration in San Francisco, USA, before one arbitrator. The arbitration shall be administered by JAMS pursuant to JAMS’ Streamlined Arbitration Rules and Procedures. Judgment on the Award may be entered in any court having jurisdiction. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

In the event this Agreement is in the name of The Qt Company Ltd., a Finnish Company, then:

(i) this Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions;

(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and

(iii) any disputes, controversy or claim arising out of or relating to this Agreement, or the breach, termination or validity thereof shall be finally settled by arbitration in accordance with the Arbitration Rules of Finland Chamber of Commerce. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

14. GENERAL PROVISIONS
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shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of The Qt Company, which shall not be unreasonably withheld or delayed. The Qt Company shall be entitled to freely assign or transfer any of its rights, benefits or obligations under this Agreement.

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Licensee shall make no representations or warranties concerning the Licensed Software on behalf of The Qt Company. Any representation or warranty Licensee makes or purports to make on The Qt Company's behalf shall be void as to The Qt Company.

14.3 Surviving Sections

Any terms and conditions that by their nature or otherwise reasonably should survive termination of this Agreement shall so be deemed to survive.

14.4 Entire Agreement

This Agreement, the exhibits hereto, the License Certificate and any applicable Purchase Order constitute the complete agreement between the Parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein. In the event of any conflict or inconsistency between this Agreement and any Purchase Order, the terms of this Agreement will prevail over the terms of the Purchase Order with respect to such conflict or inconsistency.

14.5 Modifications

No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each Party. No term or condition contained in Licensee's Purchase Order shall apply unless expressly accepted by The Qt Company in writing.

14.6 Force Majeure

Except for the payment obligations hereunder, neither Party shall be liable to the other for any delay or non-performance of its obligations hereunder in the event and to the extent that such delay or non-performance is due to an event of act of God, terrorist attack or other similar unforeseeable catastrophic event that prevents either Party for fulfilling its obligations under this Agreement and which such Party cannot avoid or circumvent ("Force Majeure Event"). If the Force Majeure Event results in a delay or non-performance of a Party for a period of three (3) months or longer, then either Party shall have the right to terminate this Agreement with immediate effect without any
liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other Party.

14.7 Notices

Any notice given by one Party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving Party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified for The Qt Company in the beginning of this Agreement, and for the Licensee in the Licensees account profile. Each communication and document made or delivered by one Party to the other Party pursuant to this Agreement shall be in the English language.

14.8 Export Control
Licensee acknowledges that the Redistributables may be subject to export control restrictions under the applicable laws of respective countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all lawses hereunder and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Redistributables, Applications and/or Devices.

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14.10 Attorney Fees

The prevailing Party in any action to enforce this Agreement shall be entitled to recover its attorney's fees and costs in connection with such action.

14.11 Severability

If any provision of this Agreement shall be adjudged by any court of competent jurisdiction to be unenforceable or invalid, that provision shall be limited or eliminated to the minimum extent necessary so that this Agreement shall otherwise remain in full force and effect and enforceable.

IN WITNESS WHEREOF, the Parties hereto, intending to be legally bound hereby, have caused this Agreement to be executed by Licensees authorized representative installing the Licensed Software and accepting the terms hereof in connection therewith.
Appendix 1

1. Parts of the Licensed Software that are permitted for distribution in object code form only ("Redistributables") under this Agreement:

- The Licensed Software's essential and add-on libraries

- The Licensed Software's configuration tool ("qtconfig")

- The Licensed Software's help tool ("Qt Assistant")

- The Licensed Software's internationalization tools ("Qt Linguist", "lupdate", "lrelease")

- The Licensed Software's QML ("Qt Quick") launcher tool ("qmlscene" and "qmlviewer")

- The Licensed Software's installer framework

2. Parts of the Licensed Software that are not permitted for distribution include, but are not limited to:

- The Licensed Software's source code and header files

- The Licensed Software's documentation

- The Licensed Software's documentation generation tool ("qdoc")

- The Licensed Software's tool for writing makefiles ("qmake")

- The Licensed Software's Meta Object Compiler ("moc")

- The Licensed Software's User Interface Compiler ("uic" or in the case of Qt Jambi: "juic")

- The Licensed Software's Resource Compiler ("rcc")

- The Licensed Software's generator (only in the case of Qt Jambi if applicable)

- The Licensed Software's parts of the IDE tool ("Qt Creator")

- The Licensed Software's Emulator

- Build scripts, recipes and other material for creating the configuration of Licensed Software and/or 3rd party components, including the reference operating system configuration delivered in conjunction with the

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NPM License Checker

===================


*As of v17.0.0 the `failOn` and `onlyAllow` arguments take semicolons as delimiters instead of commas. Some license names contain commas and it messed with the parsing*

Ever needed to see all the license info for a module and its dependencies?

It's this easy:

```shell
npm install -g license-checker

mkdir foo
cd foo
npm install yui-lint
license-checker
```
You should see something like this:

```javascript
...
cli@0.4.3
    repository: http://github.com/chriso/cli
    licenses: MIT
glob@3.1.14
    repository: https://github.com/isaacs/node-glob
    licenses: UNKNOWN
graceful-fs@1.1.14
    repository: https://github.com/isaacs/node-graceful-fs
    licenses: UNKNOWN
inherits@1.0.0
    repository: https://github.com/isaacs/inherits
    licenses: UNKNOWN
jshint@0.9.1
    licenses: MIT
lru-cache@1.0.6
    repository: https://github.com/isaacs/node-lru-cache
    licenses: MIT
lru-cache@2.0.4
    repository: https://github.com/isaacs/node-lru-cache
    licenses: MIT
minimatch@0.0.5
    repository: https://github.com/isaacs/minimatch
    licenses: MIT
minimatch@0.2.9
    repository: https://github.com/isaacs/minimatch
    licenses: MIT
sigmund@1.0.0
    repository: https://github.com/isaacs/sigmund
    licenses: UNKNOWN
yui-lint@0.1.1
    licenses: BSD
    repository: http://github.com/yui/yui-lint
```
Options
-------
* `--production` only show production dependencies.
* `--development` only show development dependencies.
* `--start [path of the initial json to look for]`
* `--unknown` report guessed licenses as unknown licenses.
* `--onlyunknown` only list packages with unknown or guessed licenses.
* `--json` output in json format.
* `--csv` output in csv format.
* `--csvComponentPrefix` prefix column for component in csv format.
* `--out [filepath]` write the data to a specific file.
* `--csvComponentPrefix` to add a custom Format file in JSON
* `--exclude [list]` exclude modules which licenses are in the comma-separated list from the output
* `--relativeLicensePath` output the location of the license files as relative paths
* `--summary` output a summary of the license usage
* `--failOn [list]` fail (exit with code 1) on the first occurrence of the licenses of the semicolon-separated list
* `--onlyAllow [list]` fail (exit with code 1) on the first occurrence of the licenses not in the semicolon-seperated list
* `--packages [list]` restrict output to the packages (package@version) in the semicolon-seperated list
* `--excludePackages [list]` restrict output to the packages (package@version) not in the semicolon-seperated list
* `--excludePrivatePackages` restrict output to not include any package marked as private
* `--direct look for direct dependencies only`

Exclusions
----------
A list of licenses is the simplest way to describe what you want to exclude.

You can use valid [SPDX identifiers](https://spdx.org/licenses/).
You can use valid SPDX expressions like `MIT OR X11`.
You can use non-valid SPDX identifiers, like `Public Domain`, since `npm` does support some license strings that are not SPDX identifiers.

Examples
--------
```
license-checker --json > /path/to/licenses.json
license-checker --csv --out /path/to/licenses.csv
license-checker --unknown
license-checker --customPath customFormatExample.json
license-checker --exclude 'MIT, MIT OR X11, BSD, ISC'
license-checker --packages 'react@16.3.0;react-dom@16.3.0;lodash@4.3.1'
license-checker --excludePackages 'internal-1;internal-2'
license-checker --onlyunknown
```

Custom format
--------------
The `--customPath` option can be used with CSV to specify the columns. Note that the first column, `module_name`, will always be used.

When used with JSON format, it will add the specified items to the usual ones.

The available items are the following:
- name
- version
- description
- repository
- publisher
- email
- url
- licenses
- licenseFile
- licenseText
- licenseModified

You can also give default values for each item.
See an example in [customFormatExample.json](customFormatExample.json).

Requiring
---------
```js
var checker = require('license-checker');

checker.init({
  start: '/path/to/start/looking',
}, function(err, packages) {
  if (err) {
    //Handle error
  } else {
    //The sorted package data
    //as an Object
  }
});
```

Debugging
---------
license-checker uses [debug](https://www.npmjs.com/package/debug) for internal logging. There are two internal markers:

* `license-checker:error` for errors
```
* `license-checker:log` for non-errors

Set the `DEBUG` environment variable to one of these to see debug output:

```

```shell
$ export DEBUG=license-checker*; license-checker
scanning ./yui-lint
cli@0.4.3
  repository: http://github.com/chriso/cli
  licenses: MIT
# ...
```

How Licenses are Found
----------------------

We walk through the `node_modules` directory with the `read-installed` module. Once we gathered a list of modules we walk through them and look at all of their `package.json`'s, We try to identify the license with the `spdx` module to see if it has a valid SPDX license attached. If that fails, we then look into the module for the following files: `LICENSE`, `LICENCE`, `COPYING`, & `README`.

If one of the those files are found (in that order) we will attempt to parse the license data from it with a list of known license texts. This will be shown with the `*` next to the name of the license to show that we "guessed" at it.

The Mesa header files use the following licenses.

================================================================================
The default Mesa license is as follows:

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(Version 2.0, Sept. 18, 2008)

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*

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 * $Id: pa_ringbuffer.c 1421 2009-11-18 16:09:05Z bjornroche $
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 * Ring Buffer utility.
 *
 * Author: Phil Burk, http://www.softsynth.com
 * modified for SMP safety on Mac OS X by Bjorn Roche
 * modified for SMP safety on Linux by Leland Lucius
 * also, allowed for const where possible
 * modified for multiple-byte-sized data elements by Sven Fischer
 *
 * Note that this is safe only for a single-thread reader and a
 * single-thread writer.
 *
 * This program uses the PortAudio Portable Audio Library.
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This is JavaScriptCore's variant of the PCRE library. While this library started out as a copy of PCRE, many of the features of PCRE have been removed.

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`cssmin.py` - A Python port of the YUI CSS compressor.

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/*
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*/

var checker = require('./lib/index');

var args = require('./lib/args').parse();
var mkdirp = require('mkdirp');
var path = require('path');
var chalk = require('chalk');
var fs = require('fs');

if (args.help) {
  console.error('license-checker@' + require('./package.json').version);
  var usage = [
    '',
    '   --production only show production dependencies.',
    '   --development only show development dependencies.',
    '   --unknown report guessed licenses as unknown licenses.',
    '   --start [path of the initial json to look for]',
    '   --onlyunknown only list packages with unknown or guessed licenses.',
    '   --json output in json format.',
    '   --csv output in csv format.',
    '   --csvComponentPrefix column prefix for components in csv file',
    '   --out [filepath] write the data to a specific file.',
    '   --customPath to add a custom Format file in JSON',
    '   --exclude [list] exclude modules which licenses are in the comma-separated list from the output',
    '   --relativeLicensePath output the location of the license files as relative paths',
    '   --summary output a summary of the license usage',
    '   --failOn [list] fail (exit with code 1) on the first occurrence of the licenses of the semicolon-separated list',
    '   --onlyAllow [list] fail (exit with code 1) on the first occurrence of the licenses not in the semicolon-seperated list',
    '   --direct look for direct dependencies only',
    '   --packages [list] restrict output to the packages (package@version) in the semicolon-seperated list',
  ];
  console.error(usage.join(' '));
  process.exit(0);
} else {
`--excludePackages [list] restrict output to the packages (package@version) not in the semicolon-separated list`,
`--excludePrivatePackages restrict output to not include any package marked as private`,
`--version The current version`,
`--help The text you are reading right now :)`
```
 ];
 console.error(usage.join('
'), '
');
 process.exit(0);
```

if (args.version) {
    console.error(require('../package.json').version);
    process.exit(1);
}

if (args.failOn && args.onlyAllow) {
    console.error('--failOn and --onlyAllow can not be used at the same time. Choose one or the other.');
    process.exit(1);
} else {
    var argValue = args.failOn || args.onlyAllow;
    if (argValue && argValue.indexOf(',') >= 0) {
        var argName = args.failOn ? 'failOn' : 'onlyAllow';
        console.warn('Warning: As of v17 the --' + argName + ' argument takes semicolons as delimeters instead of commas (some license names can contain commas));
    }
}

checker.init(args, function(err, json) {

    var formattedOutput = "";

    if (!err) {
        console.error('Found error');
        console.error(err);
    }

    if (shouldColorizeOutput(args)) {
        var keys = Object.keys(json);
        keys.forEach(function(key) {
            var keyParts = key.split('@');
            var colorizedKey = chalk.blue(keyParts[0]) + chalk.dim('@') + chalk.green(keyParts[1]);
            json[colorizedKey] = json[key];
            delete json[key];
        });
    }
}
if (args.json) {
    formattedOutput = JSON.stringify(json, null, 2) + '\n';
} else if (args.csv) {
    formattedOutput = checker.asCSV(json, args.customFormat, args.csvComponentPrefix);
} else if (args.markdown) {
    formattedOutput = checker.asMarkDown(json, args.customFormat) + '\n';
} else if (args.summary) {
    formattedOutput = checker.asSummary(json);
} else {
    formattedOutput = checker.asTree(json);
}

if (args.files) {
    checker.asFiles(json, args.files);
} else if (args.out) {
    var dir = path.dirname(args.out);
    mkdirp.sync(dir);
    fs.writeFileSync(args.out, formattedOutput, 'utf8');
} else {
    console.log(formattedOutput);
}

function shouldColorizeOutput(args) {
    return args.color && !args.out && !(args.csv || args.json || args.markdown);
}

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Obligation of confidentiality shall not apply to information that (i) is or becomes generally known to the public through no act or omission of the Receiving Party; (ii) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (iii) is developed independently by employees or Contractors of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party, as proven by the written records of the Receiving Party; (iv) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (v) the Receiving Party is legally compelled to disclose, in which case the Receiving Party shall notify the Disclosing Party of such compelled disclosure and assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to limit the scope of disclosure and the dissemination of disclosed Confidential Information to the minimum extent necessary.

The obligations under this Section 9 shall continue to remain in force for a period of five (5) years after the last disclosure, and, with respect to trade secrets, for so long as such trade secrets are protected under applicable trade secret laws.

10. FEES, DELIVERY AND PAYMENT

10.1. License Fees
License Fees are described in The Qt Company's standard price list, quote or Purchase Order confirmation or in an appendix hereto, as the case may be.

The License Fees shall not be refunded or claimed as a credit in any event or for any reason whatsoever.

10.2. Ordering Licenses
Licensee may purchase Development Licenses and Distribution Licenses pursuant to agreed pricing terms or, if no specific pricing terms have been agreed
upon, at The Qt Company's standard pricing terms applicable at the time of purchase. Unless specifically otherwise provided, any pricing terms referenced in this Agreement shall be valid for twelve (12) months from the date of this Agreement.

Licensee shall submit all purchase orders for Development Licenses and Distribution Licenses to The Qt Company by email or any other method acceptable to The Qt Company (each such order is referred to herein as a "Purchase Order") for confirmation, whereupon the Purchase Order shall become binding between the Parties.

10.3. Distribution License Packs
Unless otherwise agreed, Distribution Licenses shall be purchased by way of Distribution License Packs.

Upon due payment of the ordered Distribution License Pack(s), the Licensee will have an account of Distribution Licenses available for distributing the Redistributables in accordance with this Agreement.

Each time Licensee distributes a copy of Redistributables, then one Distribution License is used, and Licensee's account of available Distribution Licenses is decreased accordingly.

Licensee may distribute copies of the Redistributables so long as Licensee has Distribution Licenses remaining on its account.

10.4. Payment Terms
License Fees and any other charges under this Agreement shall be paid by Licensee no later than thirty (30) days from the date of the applicable invoice from The Qt Company.

The Qt Company will submit an invoice to Licensee after the date of this Agreement and/or after The Qt Company receives a Purchase Order from Licensee.

A late payment charge of the lower of (a) one percent per month; or (b) the interest rate stipulated by applicable law, shall be charged on any unpaid balances that remain past due.

10.5. Taxes
All License Fees and other charges payable hereunder are gross amounts but exclusive of any value added tax, use tax, sales tax, withholding tax and other taxes, duties or tariffs ("Taxes") levied directly for the sale, delivery or use of Licensed Software hereunder pursuant to any applicable law. Such applicable Taxes shall be paid by Licensee to The Qt Company, or, where applicable, in lieu of payment of such Taxes to The Qt Company, Licensee shall provide an exemption certificate to The Qt Company and any applicable authority.
11. RECORD-KEEPING AND REPORTING OBLIGATIONS; AUDIT RIGHTS

11.1. Licensee's Record-keeping
Licensee shall at all times during the Term of this Agreement and for a period of seven (7) years thereafter maintain Licensee's Records in an accurate and up-to-date form. Licensee's Records shall be adequate to reasonably enable The Qt Company to determine Licensee's compliance with the provisions of this Agreement. The records shall conform to general good accounting practices.

Licensee shall, within thirty (30) days from receiving The Qt Company's request to that effect, deliver to The Qt Company a report based on Licensee's Records, such report to contain information, in sufficient detail, on (i) number and identity of users working with Licensed Software or Open Source Qt, (ii) copies of Redistributables distributed by Licensee during the most recent calendar quarter and/or any other term specified by The Qt Company, (iii) number of undistributed copies of Redistributables and corresponding number of unused Distribution Licenses remaining on Licensee's account, and (iv) any other information as The Qt Company may reasonably require from time to time.

11.2. The Qt Company's Audit Rights
The Qt Company or an independent auditor acting on behalf of The Qt Company's, may, upon at least five (5) business days' prior written notice and at its expense, audit Licensee with respect to the Licensee's use of the Licensed Software, but not more frequently than once during each 6-month period. Such audit may be conducted by mail, electronic means or through an in-person visit to Licensee's place of business. Any such in-person audit shall be conducted during regular business hours at Licensee's facilities and shall not unreasonably interfere with Licensee's business activities. The Qt Company or the independent auditor acting on behalf of The Qt Company shall be entitled to inspect Licensee's Records and conduct necessary interviews of Licensee's relevant employees and Contractors. All such Licensee's Records and use thereof shall be subject to an obligation of confidentiality under this Agreement.

If an audit reveals that Licensee is using the Licensed Software beyond scope of the licenses Licensee has paid for, Licensee agrees to pay The Qt Company any amounts owed for such unauthorized use within 30 days from receipt of the corresponding invoice from The Qt Company.

In addition, in the event the audit reveals a material violation of the terms of this Agreement (without limitation, either (i) underpayment of more than 10 % of License Fees or 10,000 euros (whichever is more) or (ii) distribution of products, which include or result from Prohibited Combination, shall be deemed a material violation for purposes of this section), then the Licensee shall pay The Qt Company's reasonable cost of conducting such audit.
12. TERM AND TERMINATION

12.1. Agreement Term
This Agreement shall enter into force upon due acceptance by both Parties and remain in force for as long as there is any Development License(s) purchased under this Agreement in force ("Term"), unless and until terminated pursuant to the terms of this Section 12.

12.2. Termination and suspension of rights
Either Party shall have the right to terminate this Agreement upon thirty (30) days prior written notice if the other Party commits a material breach of any obligation of this Agreement and fails to remedy such breach within such notice period.

Instead of termination, The Qt Company shall have the right to suspend or withhold grants of all rights to the Licensed Software hereunder, including but not limited to the Development Licenses, Distribution License, and Support, should Licensee fail to make payment in timely fashion or otherwise violates or is reasonably suspected to violate its obligations or terms of this Agreement, and where such violation or breach is not cured within five (5) business days following The Qt Company's written notice thereof.

12.3. Mutual Right to Terminate
Either Party shall have the right to terminate this Agreement immediately upon written notice in the event that the other Party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other Party.

12.4. Parties' Rights and Duties upon Termination
Upon expiry or termination of the Agreement, Licensee shall cease and shall cause all Designated Users (including those of its Affiliates' and Contractors') to cease using the Licensed Software and distribution of the Redistributables under this Agreement.

Notwithstanding the above, in the event the Agreement expires or is terminated:
(i) as a result of The Qt Company choosing not to renew the Development License(s) as set forth in Section 3.1, then all valid licenses possessed by the Licensee at such date shall be extended to be valid in perpetuity under the terms of this Agreement and Licensee is entitled to purchase additional licenses as set forth in Section 10.2; or
(ii) for reason other than by The Qt Company pursuant to item (i) above or pursuant to Section 12.2, then the Licensee is entitled, for a period of six (6) months after the effective date of termination,
to continue distribution of Devices under the Distribution Licenses paid but unused at such effective date of termination.

Upon any such termination the Licensee shall destroy or return to The Qt Company all copies of the Licensed Software and all related materials and will certify the same to The Qt Company upon its request, provided however that Licensee may retain and exploit such copies of the Licensed Software as it may reasonably require in providing continued support to Customers.

Expiry or termination of this Agreement for any reason whatsoever shall not relieve Licensee of its obligation to pay any License Fees accrued or payable to The Qt Company prior to the effective date of termination, and Licensee shall immediately pay to The Qt Company all such fees upon the effective date of termination. Termination of this Agreement shall not affect any rights of Customers to continue use of Applications and Devices (and therein incorporated Redistributables).

12.5. Extension in case of bankruptcy
In the event The Qt Company is declared bankrupt under a final, non-cancellable decision by relevant court of law, and this Agreement is not, at the date of expiry of the Development License(s) pursuant to Section 3.1, assigned to party, who has assumed The Qt Company’s position as a legitimate licensor of Licensed Software under this Agreement, then all valid licenses possessed by the Licensee at such date of expiry, and which the Licensee has not notified for expiry, shall be extended to be valid in perpetuity under the terms of this Agreement.

13. GOVERNING LAW AND LEGAL VENUE

In the event this Agreement is in the name of The Qt Company Inc., a Delaware Corporation, then:

(i) this Agreement shall be construed and interpreted in accordance with the laws of the State of California, USA, excluding its choice of law provisions;
(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
(iii) any dispute, claim or controversy arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this Agreement to arbitrate, shall be determined by arbitration in San Francisco, USA, before one arbitrator. The arbitration shall be administered by JAMS pursuant to JAMS’ Streamlined Arbitration Rules and Procedures. Judgment on the Award may be entered in any court having jurisdiction. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

In the event this Agreement is in the name of The Qt Company Ltd., a Finnish
Company, then:
(i) this Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions;
(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
(iii) any disputes, controversy or claim arising out of or relating to this Agreement, or the breach, termination or validity thereof shall be finally settled by arbitration in accordance with the Arbitration Rules of Finland Chamber of Commerce. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

14. GENERAL PROVISIONS

14.1. No Assignment
Except in the case of a merger or sale of substantially all of its corporate assets, Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of The Qt Company, which shall not be unreasonably withheld or delayed. The Qt Company shall be entitled to freely assign or transfer any of its rights, benefits or obligations under this Agreement.

14.2. No Third-Party Representations
Licensee shall make no representations or warranties concerning the Licensed Software on behalf of The Qt Company. Any representation or warranty Licensee makes or purports to make on The Qt Company’s behalf shall be void as to The Qt Company.

14.3. Surviving Sections
Any terms and conditions that by their nature or otherwise reasonably should survive termination of this Agreement shall so be deemed to survive. Such sections include especially the following: 1, 2, 6, 7, 9, 11, 12.4, 13 and 14.

14.4. Entire Agreement
This Agreement, the exhibits hereto, the License Certificate and any applicable Purchase Order accepted by The Qt Company constitute the complete agreement between the Parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein.

In the event of any conflict or inconsistency between this Agreement and any Purchase Order, the terms of this Agreement will prevail over the terms of the Purchase Order with respect to such conflict or inconsistency.
Parties specifically acknowledge and agree that this Agreement prevails over any click-to-accept or similar agreements the Designated Users may need to accept online upon download of the Licensed Software, as may be required by The Qt Company's applicable processes relating to Licensed Software.

14.5. Modifications
No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each Party. No term or condition contained in Licensee's Purchase Order ("Deviating Terms") shall apply unless The Qt Company has expressly agreed such Deviating Terms in writing. Unless and to the extent expressly agreed by The Qt Company, any such Deviating Terms shall be deemed void and with no legal effect. For clarity, delivery of the Licensed Software following the receipt of the Purchase Order including Deviating Terms shall not constitute acceptance of such Deviating Terms."

14.6. Force Majeure
Except for the payment obligations hereunder, neither Party shall be liable to the other for any delay or non-performance of its obligations hereunder in the event and to the extent that such delay or non-performance is due to an event of act of God, terrorist attack or other similar unforeseeable catastrophic event that prevents either Party for fulfilling its obligations under this Agreement and which such Party cannot avoid or circumvent ("Force Majeure Event"). If the Force Majeure Event results in a delay or non-performance of a Party for a period of three (3) months or longer, then either Party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other Party.

14.7. Notices
Any notice given by one Party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving Party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified for each Party on the signature page. Each communication and document made or delivered by one Party to the other Party pursuant to this Agreement shall be in the English language.

14.8. Export Control
Licensee acknowledges that the Redistributables, as incorporated in Applications or Devices, may be subject to export control restrictions under the applicable laws of respective countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the Redistributables and exercise of licenses hereunder and shall procure all necessary
governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Redistributables, Applications and/or Devices.

14.9. No Implied License
There are no implied licenses or other implied rights granted under this Agreement, and all rights, save for those expressly granted hereunder, shall remain with The Qt Company and its licensors. In addition, no licenses or immunities are granted to the combination of the Licensed Software with any other software or hardware not delivered by The Qt Company under this Agreement.

14.10. Attorney Fees
The prevailing Party in any action to enforce this Agreement shall be entitled to recover its attorney's fees and costs in connection with such action.

14.11. Privacy
Licensee acknowledges and agrees that for the purpose of this Agreement, The Qt Company may collect, use, transfer and disclose personal data pertaining to Designated Users as well as any other employees and directors of the Licensee and its Contractors relevant for carrying out the intent of this Agreement. Such personal data may be collected from the Licensee or directly from the relevant individuals. The Parties acknowledge that with regard to such personal data processed hereunder, The Qt Company shall be regarded as the Data Controller under the applicable Data Protection Legislation. The Qt Company shall process any such personal data in accordance with its privacy policies and practices, which will comply with all applicable requirements of the Data Protection Legislation.

14.12. Severability
If any provision of this Agreement shall be adjudged by any court of competent jurisdiction to be unenforceable or invalid, that provision shall be limited or eliminated to the minimum extent necessary so that this Agreement shall otherwise remain in full force and effect and enforceable.

APPENDICES

The Agreement includes Appendix 1, and possibly one or more of the appendices 3-5, depending on the product(s) purchased by the Licensee, what is stated in the quote or invoice, and/or what is stated in the Licensee's License Certificate.

APPENDIX 1

The modules and/or tools that are included in the respective product - Qt for Application Development (QtAD), Qt for Device Creation (QtDC), Qt for MCUs (QtMCU), Qt 3D Studio (Qt3DS) and Qt Design Studio (QtDS) - are
Parts of the product that are permitted for distribution in object-code form only ("Redistributables") are marked with 'R' in the below table.

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## Change Log

### v25.0.1 (2019/01/10 19:29 +00:00)
- [f1c835b](https://github.com/davglass/license-checker/commit/f1c835b991b65dc928eafe64c29b73df9e703169)
  Updated readme with new args (@davglass)
- [ada667f](https://github.com/davglass/license-checker/commit/ada667f28e8ef4e96b5b6059fe05541d05ca936c)
  changelog (@davglass)
- [7813f0d](https://github.com/davglass/license-checker/commit/7813f0db3b51f7cc4cd37d8e7b4670f9005fed06) contrib (@davglass)

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### v25.0.0 (2019/01/10 15:09 +00:00)
- [cdb77d9](https://github.com/davglass/license-checker/commit/cdb77d9a2b36cd87503f32265a0ee388b25c24ae) 25.0.0 (@davglass)
- [b897345](https://github.com/davglass/license-checker/commit/b89734549bc05fb5e143083df67d3959d87eb2b8) [Fixes #136] Document --start option and add the depth option for looking into root dependencies or infinitely (@davglass)
- [#185](https://github.com/davglass/license-checker/pull/185) Merge pull request #185 from theboolean/fixed/fix-exclude-packages-and-private (@theboolean)
- [#184](https://github.com/davglass/license-checker/pull/184) Merge pull request #184 from theboolean/docs/fixed-typo (@theboolean)
- [987a60f](https://github.com/davglass/license-checker/commit/987a60fb58052cf36d5a80e6252e81136bb1dd8) changes 24.1.0 (@davglass)
```

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### v24.1.0 (2018/12/14 20:54 +00:00)
- [18ab8a1](https://github.com/davglass/license-checker/commit/18ab8a1eb478d1354429ca4318e1df3de3e4cb6) 24.1.0 (@davglass)
- [1dca0f6](https://github.com/davglass/license-checker/commit/1dca0f616aebdef2d398c130a2a4f86c2b4e88c8) Changelog (@davglass)
- [#188](https://github.com/davglass/license-checker/pull/188) Fix for #153: remove deprecated package 'spdx' (#188) (@rogierschouten)
- [d1d34b1](https://github.com/davglass/license-checker/commit/d1d34b1a8894987807419c093c3ec10bf06d3b) Fix typo in package.json description (@theboolean)
- [f5c9008](https://github.com/davglass/license-checker/commit/f5c9008a6d20b503e21c0d8130e52be56a5feb8) Fix: Allow excluding packages and private packages together (@theboolean)
- [98c4dc6](https://github.com/davglass/license-checker/commit/98c4dc670fdebb6e58b62b38ebcb12302e5b1db5) changes 24.0.1 (@davglass)
```

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### v24.0.1 (2018/10/11 16:40 +00:00)
- [d72eae8](https://github.com/davglass/license-checker/commit/d72eae88bcb80d8582e6d12e5e2664e9c19135709) 24.0.1 (@davglass)
- [9433e64](https://github.com/davglass/license-checker/commit/9433e640ea9f629aad5f00c224a9f610268116d) [Fixes #181] - Removed extra line break with --cvs (@davglass)
- [65baa28](https://github.com/davglass/license-checker/commit/65baa28f532f87eb75a32578c7ac5837806d12f) contrib and changes (@davglass)
```

```plaintext
### v24.0.0 (2018/10/09 21:12 +00:00)
- [84d64a2](https://github.com/davglass/license-checker/commit/84d64a28fa971c3b7b2b9e9de27cafbe6e8481b) 24.0.0 (@davglass)
- [#180](https://github.com/davglass/license-checker/pull/180) Feature: Exclude Private Packages (#180) (Jonny Reeves)
- [#179](https://github.com/davglass/license-checker/pull/179) Merge pull request #179 from jonny-improbable/fix/fix-strict-checks (@jonny-improbable)
- [179077d](https://github.com/davglass/license-checker/commit/179077d079acbd0183aa6691cf5e3ecf930f7) Fixes 176, Packages are not ignored when using --onlyAllow and --excludePackages. (@jonny-improbable)
- [890ca17](https://github.com/davglass/license-checker/commit/890ca17d179bc43af6cb7cf962d69d1521dc9ac2)
### v23.0.0 (2018/10/09 14:37 +00:00)
- [f243287](https://github.com/davglass/license-checker/commit/f243287fbc6da33838a226ddf8c412535390d4) 23.0.0 (@davglass)
- [#178](https://github.com/davglass/license-checker/pull/178) Merge pull request #178 from jonny-improbable/fix/filtering (@jonny-improbable)
- [#175](https://github.com/davglass/license-checker/pull/175) Merge pull request #175 from jonny-improbable/patch-1 (@jonny-improbable)
- [f2c6611](https://github.com/davglass/license-checker/commit/f2c6611d6c68e50b2b6f56260026837e77167f44a) Fixes #177, --packages and --excludePackages filtering (@jonny-improbable)
- [0a598df](https://github.com/davglass/license-checker/commit/0a598df55c3ec33803ef33be07cc47a910ee961) Improve --onlyAllow violation Error
- [ee723af](https://github.com/davglass/license-checker/commit/ee723af79889a4d98ed06749a58f6aa41a44ac7) changes (@davglass)

### v22.0.0 (2018/10/08 19:00 +00:00)
- [bd398c3](https://github.com/davglass/license-checker/commit/bd398c3bce0279699c9aad1dc4b59f298a75766) 22.0.0 (@davglass)
- [#172](https://github.com/davglass/license-checker/pull/172) Merge pull request #172 from fzaninotto/exclude-packages (@fzaninotto)
- [014fd96](https://github.com/davglass/license-checker/commit/014fd9613fe5460e0b7a0fc118a659a337e25e2c) added changes (@davglass)

### v21.0.0 (2018/10/06 13:24 +00:00)
- [d75fe43](https://github.com/davglass/license-checker/commit/d75fe43d61a9d5b6696d71a663e25a53fd3d44f7) 21.0.0 (@davglass)
- [05cb221](https://github.com/davglass/license-checker/commit/05cb221359de4f8e1039f586cd9e8f7cb9d6398) [Fixes #174] - Moved private and unknown detection above filtering (@davglass)
- [b1d5700](https://github.com/davglass/license-checker/commit/b1d570088236dfb90253bdac27763523b2e74ff) Add an excludePackages option (@fzaninotto)
- [231bd3f](https://github.com/davglass/license-checker/commit/231bd3f2412507be1d702ad100b23c1b1fe93602) updated readme (@davglass)
- [6c61a7b](https://github.com/davglass/license-checker/commit/6c61a7bd02466c702065d42706392c11717cc1d) changelog (@davglass)

### v20.2.0 (2018/07/30 13:49 +00:00)
- [28dc521](https://github.com/davglass/license-checker/commit/28dc5218dec340778bd801593275ad1b222e53f) 20.2.0 (@davglass)
- [#169](https://github.com/davglass/license-checker/pull/169) Merge pull request #169 from codepunkt/ restrict_packages (@codepunkt)
- [5e4b274](https://github.com/davglass/license-checker/commit/5e4b274e955485f2aba37e65fecd913b8042f38d) refactor: restore previous code style (@codepunkt)
- [0f53922](https://github.com/davglass/license-checker/commit/0f53922088be0b0d4f8db7ea884853d0137e45) feat: allow restricting output to specified packages (@codepunkt)
- [5f63f87](https://github.com/davglass/license-checker/commit/5f63f8766a17e589b57db99bda4eb54d91b85b77)
changes and contrib (@davglass)

### v20.1.0 (2018/06/07 14:33 +00:00)
- [970882a](https://github.com/davglass/license-checker/commit/970882a09b345c7f32496431e5ca4c069ad7e320) 20.1.0 (@davglass)
- [#165](https://github.com/davglass/license-checker/pull/165) Merge pull request #165 from santiagocanti/fix-exclude-not-adding-custom-licenses (@santiagocanti)
- [89e48a9](https://github.com/davglass/license-checker/commit/89e48a9d3d0c9f2e48bfcee0dc3563ce4b652e22) Fix exclude not including custom licenses (@santiagocanti)

### v20.0.0 (2018/05/17 14:14 +00:00)
- [0e89310](https://github.com/davglass/license-checker/commit/0e8931021df777cb401d9a332fa2a8c9a2c49eb2) 20.0.0 (@davglass)
- [c36a5c9](https://github.com/davglass/license-checker/commit/c36a5c99bb4f68816e4e19cad5090ba3c7ba67a4) changes (@davglass)
- [ccb66f3](https://github.com/davglass/license-checker/commit/ccb66f3410a4589e6f2b7cf1c3ae9b1446bab460) contributors (@davglass)
- [#156](https://github.com/davglass/license-checker/pull/156) Merge pull request #156 from zodiac403/z4/copyright (@zodiac403)
- [56414b4](https://github.com/davglass/license-checker/commit/56414b4a67cb25bbc8eb8cc05b0ac712b677dc2) Add unit test for Copyright statement. (@zodiac403)
- [3eafe24](https://github.com/davglass/license-checker/commit/3eafe249ad662af727a9b7472f7ad6c19a73ade) fixing test coverage with switch to nyc from istanbul (@davglass)

### v19.0.0 (2018/04/30 14:51 +00:00)
- [7e83a06](https://github.com/davglass/license-checker/commit/7e83a069d231043cd8257eb6466704ecca465) 19.0.0 (@davglass)
- [e5eb49b](https://github.com/davglass/license-checker/commit/e5eb49bc5546d6bce68f736f159d63908cd39e9) upgrading packages (@davglass)
- [442ae6](https://github.com/davglass/license-checker/commit/442ae69b5d44e47bf2de441c4e1f86d387e49c6) Changlog (@davglass)

### v18.1.0 (2018/04/30 14:16 +00:00)
- [82ec91b](https://github.com/davglass/license-checker/commit/82ec91bb02e6b9f98164b6b2b4aa827198156ad4c) 18.1.0 (@davglass)
- [4b546d3](https://github.com/davglass/license-checker/commit/4b546d38ce91bcbe8d21e7bc53e44635b0447fc2) contrib (@davglass)
- [#155](https://github.com/davglass/license-checker/pull/155) Merge pull request #155 from ktmouk/supress-path-property (@ktmouk)
- [#160](https://github.com/davglass/license-checker/pull/160) Merge pull request #160 from helio-frota/pr (@helio-frota)
- [8b068f2](https://github.com/davglass/license-checker/commit/8b068f25fe91d087c06e29312bc250b49aba4c7) fix: Updating debug dependency to fix a security warning (@helio-frota)
- [040dd94](https://github.com/davglass/license-checker/commit/040dd9468261966c5c40e4a418a9ba8f716c3a2) Copyright statement: Handle multi-line stagements (@zodiac403)
- [0480750](https://github.com/davglass/license-checker/commit/04807506d61aad704e8b51da3a289baa025b510) Fix layout issue. (@zodiac403)
- [9cb45f2](https://github.com/davglass/license-checker/commit/9cb45f2b9ce2c1142e0d1f556f01f7d754737a4c)
Link with customFormat (@zodiac403)
- [f83aaee](https://github.com/davglass/license-checker/commit/f83aaee85ad4c2e9880802951daa8dec86dc2d7f) Merge branch 'z4/copyright' of https://github.com/zodiac403/license-checker into z4/copyright (@zodiac403)
- [7536af9](https://github.com/davglass/license-checker/commit/7536af935d91078657f0e169682383f099607f6) Trim output. (@zodiac403)
- [8716845](https://github.com/davglass/license-checker/commit/87168456cae35263882bd2b6d6d00811f2286b66) Suppress path property (@ktmouk)
- [be57ce8](https://github.com/davglass/license-checker/commit/be57ce8f76c8aadaf0227913b7d0e12ca0d640) Add example for (c) statement. (@zodiac403)
- [fe17f7c](https://github.com/davglass/license-checker/commit/fe17f7c76dbdaee0cbf869a0cd260a746698f3281) Parse (c) statements from LICENSE file. (@zodiac403)
- [#149](https://github.com/davglass/license-checker/pull/149) Merge pull request #149 from honzajavorek/patch-1 (@honzajavorek)
- [955bbf6](https://github.com/davglass/license-checker/commit/955bbf6070ffcd9f0d01ef37bb84fbbac65e007b) remove the old status badge (@honzajavorek)

### v18.0.0 (2018/03/20 12:30 +00:00)
- [315de0b](https://github.com/davglass/license-checker/commit/315de0b1a881cf8737c3c0131c217c4820df13a8) 18.0.0 (@davglass)
- [76655d5](https://github.com/davglass/license-checker/commit/76655d59bad95c2e52724aa3a0cf036f0e60bd6) changelog (@davglass)
- [c8aa823](https://github.com/davglass/license-checker/commit/c8aa823342b7a250d510582c8a03dd76af50bd9c) added contributors (@davglass)
- [#147](https://github.com/davglass/license-checker/pull/147) Merge pull request #147 from honzajavorek/honzajavorek/license-files (@honzajavorek)
- [#148](https://github.com/davglass/license-checker/pull/148) Merge pull request #148 from honzajavorek/honzajavorek/use-stderr (@honzajavorek)
- [#146](https://github.com/davglass/license-checker/pull/146) Merge pull request #146 from honzajavorek/honzajavorek/fix-e2e-test (@honzajavorek)
- [#145](https://github.com/davglass/license-checker/pull/145) Merge pull request #145 from honzajavorek/honzajavorek/drop-4-add-8 (@honzajavorek)
- [0105f7d](https://github.com/davglass/license-checker/commit/0105f7dcef01a67b8f7c34371d951d76b191d5ed) use stderr where applicable (@honzajavorek)
- [0ff8d91](https://github.com/davglass/license-checker/commit/0ff8d917659446256074c940ae43dd84930233) add support for LICENSE-MIT and similar (@honzajavorek)
- [f02589e](https://github.com/davglass/license-checker/commit/f02589e62c0ba8221081b88b1799d561c3ff20500) isolate and test the license file detection (@honzajavorek)
- [f0da0fe](https://github.com/davglass/license-checker/commit/f0da0fe2ab28f1658e4ed504bb034fb1536b9ff8) add warning about commas and test it (@honzajavorek)
- [3d0b6b6](https://github.com/davglass/license-checker/commit/3d0b6b6f05a68ecff4181503ca87edce4ef10cd7) fix e2e test (transition from comma delimiter to semicolon) (@honzajavorek)
- [ce3b73](https://github.com/davglass/license-checker/commit/ce3b73505ac40a2dca211e78427624d009585dc) let Travis CI to cache node_modules (@honzajavorek)
- [8cea3dc](https://github.com/davglass/license-checker/commit/8cea3d0cfd1285dc3ae3f3764a82d7e123a1988) add Travis CI badge to the README (@honzajavorek)
- [8f59c3b](https://github.com/davglass/license-checker/commit/8f59c3b494f69b1d51355b6f80c0e006d0ef6bb) drop support for node 4, add support for node 8 (@honzajavorek)
### v17.0.0 (2018/03/19 13:26 +00:00)
- [cd5fdd8](https://github.com/davglass/license-checker/commit/cd5fdd8e94267d7d8f29e86dd9cbf8b694c037f1) 17.0.0 (@davglass)
- [13c11ee](https://github.com/davglass/license-checker/commit/13c11eeea1ba3e012de62536100fcee91c355c8b) updated readme and help text (@davglass)
- [#144](https://github.com/davglass/license-checker/pull/144) Merge pull request #144 from creising/parser-fixes (@creising)
- [d2ab8df](https://github.com/davglass/license-checker/commit/d2ab8df30bc3e6b38b321a1e12a70cf477a69eb0) added support for lic with commas and spaces (@creising)
- [2075208](https://github.com/davglass/license-checker/commit/20752083c6029823fb389a30a1ed4d7d90fa9297) contrib and changelog (@davglass)
- [6c5274c](https://github.com/davglass/license-checker/commit/6c5274c6064d318844c36158dea395e0893ff08) [fixes #132] - Fixed issue with asFiles and path issues (@davglass)
- [a46c448](https://github.com/davglass/license-checker/commit/a46c4483f872c3db9498a65b7a3e3c6d68164de0a) 16.0.0 (@davglass)
- [38d63e2](https://github.com/davglass/license-checker/commit/38d63e2c2c3f6c11012fb69b1470b2ba06d5554) [fixes #128] - Added --onlyAllow option (@davglass)

### v16.0.0 (2018/01/18 15:02 +00:00)
- [#131](https://github.com/davglass/license-checker/pull/131) Merge pull request #131 from mischah/patch-1 (@mischah)
- [e341d17](https://github.com/davglass/license-checker/commit/e341d1701092be87309ec4b51fa6eb23f7e9a589) Fix typo in Readme (@mischah)
- [cc38a20](https://github.com/davglass/license-checker/commit/cc38a2047bf41b6fe25266114a13a9bf54133e04) updated license text (@davglass)

### v15.0.0 (2017/10/19 14:24 +00:00)
- [a9bd001](https://github.com/davglass/license-checker/commit/a9bd001b649bfa186bae5598bb8c67ff56383599) 15.0.0 (@davglass)
- [db621fa](https://github.com/davglass/license-checker/commit/db621fa9beef870699c33be484bf49816ab7866) changelog (@davglass)
- [#124](https://github.com/davglass/license-checker/pull/124) Merge pull request #124 from neverendingqs/app/stricterguesses (@neverendingqs)
- [#126](https://github.com/davglass/license-checker/pull/126) app - output now includes path to dependency. (#126) (@neverendingqs)
- [9f68b29](https://github.com/davglass/license-checker/commit/9f68b29bbfa73278cdab92e221be6ccbab191932) app - strengthening license guessing; resolves #123. (@neverendingqs)
- [3061c87](https://github.com/davglass/license-checker/commit/3061c87363f3416d86ca6c2a7b2bfa77def0e73) changes (@davglass)

### v14.0.0 (2017/08/28 13:22 +00:00)
- [b2a4403](https://github.com/davglass/license-checker/commit/b2a440309c1537c52e5c5a2106f11e72d5b784ec) 14.0.0 (@davglass)
- [#122](https://github.com/davglass/license-checker/pull/122) Added --failOn [list] mode (#122) (@tobilg)

### v13.1.0 (2017/08/25 15:00 +00:00)
- [ee25265](https://github.com/davglass/license-checker/commit/ee25265f92fe0d3b603da6b8c88d175e0d1f2fa5) 13.1.0 (@davglass)
### v13.0.3 (2017/08/04 17:15 +00:00)
- [2caf76b](https://github.com/davglass/license-checker/commit/2caf76be7f2849e153ee28410f3b7a41df3283b5) 13.0.3 (@davglass)
- [fadddc8](https://github.com/davglass/license-checker/commit/fadddc895ef9c6f182e2283c5605a8c1d8fa8a25) [fixes #117] fixed minor URL parsing (@davglass)
- [e58a868](https://github.com/davglass/license-checker/commit/e58a868268aefdf97d735b364bd87d03140d76482) changes (@davglass)

### v13.0.2 (2017/07/18 16:24 +00:00)
- [2c712b7](https://github.com/davglass/license-checker/commit/2c712b7c7e6eef916d60f3ef3125f7f019c46d59) 13.0.2 (@davglass)
- [ef812c1](https://github.com/davglass/license-checker/commit/ef812c1168901d08b97dbd450a64ca03bb7062ad) [fixes #114] - Custom URL/File parsing skipped if file found on disk (@davglass)

### v13.0.1 (2017/07/17 12:48 +00:00)
- [a1bf8f1](https://github.com/davglass/license-checker/commit/a1bf8f152b100d81b44757b37e141df6a971c44) 13.0.1 (@davglass)
- [e6dc889](https://github.com/davglass/license-checker/commit/e6dc8893b8a86e12493f7a5c22fd74ef2627994) contrib & changes (@davglass)
- [#113](https://github.com/davglass/license-checker/pull/113) Use LICENSE file in preference to README (#113) (@ibeucaly)
- [6b7f79f](https://github.com/davglass/license-checker/commit/6b7f79f654e21903ea37e4391fba3601e3e32e90) changes (@davglass)

### v13.0.0 (2017/07/14 12:49 +00:00)
- [dd9e880](https://github.com/davglass/license-checker/commit/dd9e880abd234d683d8c1e57e7a5f889c9156de4) 13.0.0 (@davglass)
- [051b20b](https://github.com/davglass/license-checker/commit/051b20b0c4b35f223f724705a0025dacf809373f) cleaned up some tests (@davglass)
- [#110](https://github.com/davglass/license-checker/pull/110) FEATURE: Recognise some custom licenses by file or url (#110) (@dancrumb)
- [#111](https://github.com/davglass/license-checker/pull/111) Resolves #60 (#111) Adding support for GPL and LGPL (@dancrumb)
- [#109](https://github.com/davglass/license-checker/pull/109) FEATURE: Improve license exclusion (#109) (@dancrumb)
- [#108](https://github.com/davglass/license-checker/pull/108) FEATURE: Detect private modules and report them as UNLICENSED (#108) (@dancrumb)

### v12.1.0 (2017/07/12 16:48 +00:00)
- [dc944e5](https://github.com/davglass/license-checker/commit/dc944e54d55d77b0ef6b6321d9abe847662ccb8) 12.1.0 (@davglass)
- [d415c58](https://github.com/davglass/license-checker/commit/d415c580b04bc5eefa592dc9f9a0a31b244c1bd3) updated contrib and changes (@davglass)
- [#107](https://github.com/davglass/license-checker/pull/107) Merge pull request #107 from dancrumb/feature/support-for-public-domain-licenses (@dancrumb)
- [0c55770](https://github.com/davglass/license-checker/commit/0c55770294167161c48b79cc82a15a6545154a87) FEATURE: Add support for Public Domain licenses (@dancrumb)

### v12.0.0 (2017/07/05 13:33 +00:00)
- [8b74fa1](https://github.com/davglass/license-checker/commit/8b74fa1fe3b5edb0d217aa3ce86f4662eb024621) 12.0.0 (@davglass)
- [4f3367c](https://github.com/davglass/license-checker/commit/4f3367c2bf2e9713a6cccd11341f7f4a70ed400) changes & contrib (@davglass)
- [#106](https://github.com/davglass/license-checker/pull/106) Merge pull request #106 from helio-frota/licensefile-readme (@helio-frota)
- [a229507](https://github.com/davglass/license-checker/commit/a2295073d0178dca1b88e85ea8f52c21d35e52fc) src: the README is added as licenseFile (@helio-frota)
- [b59d90d](https://github.com/davglass/license-checker/commit/b59d90d8705f6f728c817b89936f95097d26857b) changes & contrib (@davglass)

### v11.0.0 (2017/05/30 13:33 +00:00)
- [258df10](https://github.com/davglass/license-checker/commit/258df102da484943088da8e0b6160b80c0e703cd) 11.0.0 (@davglass)
- [#102](https://github.com/davglass/license-checker/pull/102) Merge pull request #102 from xswordsx/multiple-licenses (@xswordsx)
- [c5c8b0f](https://github.com/davglass/license-checker/commit/c5c8b0f408f2a26259a7b1109f7cc135ed5bf9e4) Check for SPDX-compatible licenses (@xswordsx)

### v10.1.0 (2017/05/25 16:16 +00:00)
- [b52a16d](https://github.com/davglass/license-checker/commit/b52a16d0ba414e7287f82325dd65619cd76afdd1) 10.1.0 (@davglass)
- [f911a99](https://github.com/davglass/license-checker/commit/f911a9919033254945ecbbf69362cb171436688e) contrib & changes (@davglass)
- [#100](https://github.com/davglass/license-checker/pull/100) Suppress JSON properties with custom format (#100) (@tbbstny)
- [ed53ab](https://github.com/davglass/license-checker/commit/ed53ab50825f0be032958f8233dd3000ee98e85) changelog (@davglass)

### v10.0.0 (2017/05/17 13:51 +00:00)
- [b2c2283](https://github.com/davglass/license-checker/commit/b2c2283cf5a937e64a07ab200ec2379e481903b6) 10.0.0 (@davglass)

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Open Source Used In APIC-SE-BATMAN 2.1.1d 35256
- [a0406ac](https://github.com/davglass/license-checker/commit/a0406ac2c7a0b1037ca31b47e36d316b9c088938) [fixes #96] - do not replace newline, etc in licenses for exporting to json/markdown (@davglass)
- [98a03fa](https://github.com/davglass/license-checker/commit/98a03fa700ef6d038cc2f9104ea5cf17c82a10ad) [fixes #97] - Added a newline to the output file (@davglass)
- [9f8](https://github.com/davglass/license-checker/pull/98) Merge pull request #98 from davglass/eslint (@davglass)
- [10fe441](https://github.com/davglass/license-checker/commit/10fe441a2e70e549e57f7da99d2287fc55355500) moved to eslint (@davglass)
- [f82b535](https://github.com/davglass/license-checker/commit/f82b535d3b7f152fa00bb4680e94af18d1c1421d) changelog (@davglass)

```markdown
### v9.0.3 (2017/04/10 13:42 +00:00)
- [a0fd60f](https://github.com/davglass/license-checker/commit/a0fd60f972b7c84a32117b3dfc1f95bfa2282f27) 9.0.3 (@davglass)
- [#95](https://github.com/davglass/license-checker/pull/95) Merge pull request #95 from abtris/prefix-component (@abtris)
- [3b80272](https://github.com/davglass/license-checker/commit/3b80272a217687c2f0cd7a0c1e98775064d820ff) test: add test for csvComponentPrefix (@abtris)
- [d593554](https://github.com/davglass/license-checker/commit/d593554c1a6b4f7e004e4a23fca88cb7294f8351) feat: add support for csvComponentPrefix (@abtris)
- [5b2eea1](https://github.com/davglass/license-checker/commit/5b2eea12d8c54068a01a2cf1fd9bdec8c1f0fa2) added contrib (@davglass)

### v9.0.2 (2017/04/05 14:55 +00:00)
- [f24833b](https://github.com/davglass/license-checker/commit/f24833bcae846f608ec3d8c327d335da56c42b895) 9.0.2 (@davglass)
- [#94](https://github.com/davglass/license-checker/pull/94) Merge pull request #94 from timbru31/fix-comma-exclude (@timbru31)
- [2d08a77](https://github.com/davglass/license-checker/commit/2d08a77030362c7ab03ac12358dd524c0be47eee) contrib & changelog (@davglass)

### v9.0.1 (2017/04/05 13:09 +00:00)
- [9f1af3](https://github.com/davglass/license-checker/commit/9f1af32194a9bb312858f624e303af1ad4f61ca) 9.0.1 (@davglass)
- [c99f612](https://github.com/davglass/license-checker/commit/c99f612fee22d9eb03db0ad41e7918fba6e8ed9) added test for licenseText (@davglass)
- [#93](https://github.com/davglass/license-checker/pull/93) Merge pull request #93 from abtris/licenseText-just-in-customFormat (@abtris)
- [8d7fb2f](https://github.com/davglass/license-checker/commit/8d7fb2f85fc585d8e75ab1459e0b0ce43993ba4) fix: allow escaped commas in exclude string (@timbru31)
- [da4d73c](https://github.com/davglass/license-checker/commit/da4d73c0fe22f50ddbe54364eeef5b7bce7f1a4) test: fix test, remove check from non custom format (@abtris)
- [dcd3b59](https://github.com/davglass/license-checker/commit/dcd3b59bb9457df354fa3095189235b6e030df1a) feat: add licenseText only for customFormat (@abtris)
- [4e02eca](https://github.com/davglass/license-checker/commit/4e02eca6e8bd332ff6d90e5039cacb50f0df1bf3) updated contribs and changelog (@davglass)

### v9.0.0 (2017/04/04 12:26 +00:00)
- [267c80e](https://github.com/davglass/license-checker/commit/267c80efac89eef70c71a12b8f12b3dc8e6d58dd) 9.0.0 (@davglass)
- [057af47](https://github.com/davglass/license-checker/commit/057af47bc52ac526f46ba21496f338689801809) added licenseFile assertion to tests (@davglass)
- [92](https://github.com/davglass/license-checker/pull/92) Merge pull request #92 from abtris/includeFileContent (@abtris)
- [1cda118](https://github.com/davglass/license-checker/commit/1cda118e1aa18cc391ba2765dcca89172943a0f) fix: replace problematics chars for easy import to Excel (@abtris)
- [dd6ecab](https://github.com/davglass/license-checker/commit/dd6ecab1a7b1354c4d1d00149158dbe0f5e3e63) feat: add licenseText (@abtris)
- [6395498](https://github.com/davglass/license-checker/commit/639549890c54a12043244579ad0c0d5972309fb2) changes and contrib (@davglass)

### v8.0.4 (2017/02/15 16:21 +00:00)
- [28d379a](https://github.com/davglass/license-checker/commit/28d379aca51da7a47af324bc6fe63736ea02295) 8.0.4 (@davglass)
- [#89](https://github.com/davglass/license-checker/pull/89) Merge pull request #89 from Pawamoy/master (@Pawamoy)
- [#90](https://github.com/davglass/license-checker/pull/90) Merge pull request #90 from drewfish/bsd-source-code (@drewfish)
- [b704bc1](https://github.com/davglass/license-checker/commit/b704bc18a43de246302b8ff6933f8ef59f6ee3a6) guess BSD-Source-Code license (@drewfish)
- [8d31eab](https://github.com/davglass/license-checker/commit/8d31eab6f671d32e63e63215d65307fb4acc59) Add docs about customFormat option (@pawamoy)
- [2529d31](https://github.com/davglass/license-checker/commit/2529d3118dfae53f1e01056ec99f5c542cb8d63e) changes (@davglass)

### v8.0.3 (2016/11/10 17:04 +00:00)
- [66fd7b5](https://github.com/davglass/license-checker/commit/66fd7b5ad5577cc2c85668a7c6607365c86a2e85) 8.0.3 (@davglass)
- [#87](https://github.com/davglass/license-checker/pull/87) Merge pull request #87 from drewfish/guess-cc0 (@drewfish)
- [668bbd3](https://github.com/davglass/license-checker/commit/668bbd38fd5148f99c5263f4e0506e04d5e3f8a0) guess CC0-1.0, upgraded jshint (@drewfish)

### v8.0.2 (2016/11/09 21:57 +00:00)
- [0bdedd8](https://github.com/davglass/license-checker/commit/0bdedd8cb990e1f5f6acde1c12cc708185a5b866) 8.0.2 (@davglass)
- [ef677b4](https://github.com/davglass/license-checker/commit/ef677b454373352343fa49d4c978a295bd1544) updated semver (@davglass)
- [14b5c85](https://github.com/davglass/license-checker/commit/14b5c8551ccbb5c5ce8aa76fb5367857c891d013) Changelog (@davglass)

### v8.0.1 (2016/11/09 21:51 +00:00)
- [594871d](https://github.com/davglass/license-checker/commit/594871d6197a030121f940500495e6ca7d82f02c) 8.0.1 (@davglass)
- [c243663](https://github.com/davglass/license-checker/commit/c243663b0ab8a0126251292a57b2c47369a51ebf) added contrib (@davglass)
- [#86](https://github.com/davglass/license-checker/pull/86) Merge pull request #86 from drewfish/copying (@drewfish)
- [380aa26](https://github.com/davglass/license-checker/commit/380aa26799cb527739907484e69c6dae26d5f17a) also support COPYING file (@drewfish)
- [329c367](https://github.com/davglass/license-checker/commit/329c3676d0cd5c5947a53fd205ff23b767b7f882) handling undefined@undefined error better (@davglass)
- [f93a07](https://github.com/davglass/license-checker/commit/f93a072632aadd0660b63f61c56c3bd2fe109474) changelog (@davglass)

### v8.0.0 (2016/09/09 13:23 +00:00)
- [44c2e48](https://github.com/davglass/license-checker/commit/44c2e48ae177915523fd89a74474fe0953408bf) 8.0.0 (@davglass)
- [b5f5c6a](https://github.com/davglass/license-checker/commit/b5f5c6ae03a8c60c52fdd308f1721744a4baaa99) [fixes #78] - include notice file if found (@davglass)
- [dfcbdf6f](https://github.com/davglass/license-checker/commit/dfcbdf6f4966ad74e065f71e45cb08ba8fe62ab) changelog (@davglass)
- [99976d0](https://github.com/davglass/license-checker/commit/99976d07980e241384be10341d0305d08e9cea5) 7.1.1 (@davglass)
- [ef857b7](https://github.com/davglass/license-checker/commit/ef857b7e9bab706299a1cc565ec5d144893af424) [fixes #77] fixed readme file name parsing, made it more strict (@davglass)

### v7.1.1 (2016/09/07 19:16 +00:00)
- [28be6d4](https://github.com/davglass/license-checker/commit/28be6d4128a3625cf8ed37ba149e79ed3a4b4fa) changelog (@davglass)

### v7.1.0 (2016/09/07 15:12 +00:00)
- [9f8b7f1](https://github.com/davglass/license-checker/commit/9f8b7f1c3c67dfe86342ec5f5cc97171bf97281a) 7.1.0 (@davglass)
- [60fcea1a](https://github.com/davglass/license-checker/commit/60fcea1a24a4ef5add98a08dd8c8a85870dbc3fa6) Fixed order of operations for parsing (@davglass)
- [9d4db11](https://github.com/davglass/license-checker/commit/9d4db112794b8110a1bfe0a2be2d363bc812299) Updated changelog (@davglass)

### v7.0.0 (2016/09/06 14:50 +00:00)
- [a3a08da](https://github.com/davglass/license-checker/commit/a3a08da70b680d72405f655e107f36b1b645fe) 7.0.0 (@davglass)
- [b993399](https://github.com/davglass/license-checker/commit/b9933994472162cc9c4292cb42f2900e17a5167f) added contrib (@davglass)
- [d783029](https://github.com/davglass/license-checker/commit/d7830297b053496e45b7145b3cfa5809ac8ab1d1) Fixes #76 - If readme data not found, look for it on disk (@davglass)
- [#75](https://github.com/davglass/license-checker/pull/75) Merge pull request #75 from revov/master (@revov)
- [6204a24](https://github.com/davglass/license-checker/commit/6204a244ee71ae0329b4f2c1ca6cf37713741f32) Fix incorrect example in README (@revov)
- [90e24ac](https://github.com/davglass/license-checker/commit/90e24ac9ad20591d5ac166cc2974034fb997b30a) Added changelog (@davglass)
- [dd768c6f](https://github.com/davglass/license-checker/commit/dd768c6c8cbc39b596881a2eeca582ad4bb816879) Added contributors (@davglass)
### v6.0.0 (2016/08/26 19:46 +00:00)
- [4bca140](https://github.com/davglass/license-checker/commit/4bca140db752b7b98ad1e261e5ee965d84995741) 6.0.0 (@davglass)
- [889ff17](https://github.com/davglass/license-checker/commit/889ff17ae01a2180f4c9100c9ea528a264d81) updating tests (@davglass)
- [ed18801](https://github.com/davglass/license-checker/commit/ed188010351c4afb44db0d32dfa10256e53b1f0f) Merge branch 'nodeback' of git://github.com/bengl/license-checker into bengl-nodeback (@davglass)
- [34bb266](https://github.com/davglass/license-checker/commit/34bb26677cd0e25500fa545d4f1e8aef216b8cc7) dropping node 0.10 and adding node 6.0 to travis (@davglass)
- [1d30667](https://github.com/davglass/license-checker/commit/1d306674a7efface2cad31f2bd676d7584c7922bb) updating tests (@davglass)
- [65d7c73](https://github.com/davglass/license-checker/commit/65d7c73f796711003cc71ae24a4a5391bd48046) cleaned up some code (@davglass)
- [7f53998](https://github.com/davglass/license-checker/commit/7f53998a06cb5f9df6430b3588a3b3c8f1339) Merge branch 'master' of git://github.com/amitkSharma/license-checker into amitkSharma-master (@davglass)
- [28e4462](https://github.com/davglass/license-checker/commit/28e4462543724685080c16232cd2bd57caabb1c30) added tests and cleaned up linting (@davglass)
- [153857a](https://github.com/davglass/license-checker/commit/153857a25a197d14883f6479579844b2980b5aa) publisher information incorporated.
- [1265cb3](https://github.com/davglass/license-checker/commit/1265cb38d186ab1609dbdafa1424f237f8aaa15846) added ability to output individual license files (@aweber1)
- [49e11d0](https://github.com/davglass/license-checker/commit/49e11d049645d6567ef6d3c778af54eb13af888) fix tests (@bengl)
- [26ff6c6](https://github.com/davglass/license-checker/commit/26ff6c63d43c372c9a18f9c0c137608b3d5e4fa) use nodeback/errback (@bengl)

### v5.1.2 (2016/05/04 18:32 +00:00)
- [7101c77](https://github.com/davglass/license-checker/commit/7101c77667ad134fe01f02c298e7df2a4080e311) 5.1.2 (@davglass)
- [967](https://github.com/davglass/license-checker/pull/67) merge pull request #67 from graingert/patch-2 (@graingert)
- [a6ee290](https://github.com/davglass/license-checker/commit/a6ee290eb7fced220dce8548f80ec74fde3a2) upgrade read-installed (@graingert)
- [42e29c6](https://github.com/davglass/license-checker/commit/42e29c637940959121842762d74921bece5e8d93) migrating tests from vows to mocha (@davglass)

### v5.1.1 (2016/04/14 13:20 +00:00)
- [6ae0334](https://github.com/davglass/license-checker/commit/6ae03348ca8e5835ae732028afdb664a381cfc4) 5.1.1 (@davglass)
- [0720a46](https://github.com/davglass/license-checker/commit/0720a46569f3e12eb398165526944f307e08aad6) fixes #64 - turn off color for --json/markdown/csv options (@davglass)

### v5.1.0 (2016/03/09 15:50 +00:00)
- [86772d2](https://github.com/davglass/license-checker/commit/86772d202b63d4a4c6729b9a774193ca6ef5cb3f) 5.1.0 (@davglass)
- [661](https://github.com/davglass/license-checker/pull/61) merge pull request #61 from sgdtk/master (@sgdtk)
- [6547ac1](https://github.com/davglass/license-checker/commit/6547ac1ded58560c7c4abdfc68fa69d17b81fe1e) removed obsolete d[key].name assignment from tests (@sgdtk)
- [00b18a6](https://github.com/davglass/license-checker/commit/00b18a6012387e1a4a8284ce07bf2d08740e03ddd) Added a --relativeLicensePath option to display the license file relatively to the current path. (@sgtdck)
- [629da20](https://github.com/davglass/license-checker/commit/629da201e0d1170057fd9efe05efcb293d2f1bda) Added latest contributors (@davglass)

### v5.0.1 (2016/02/08 15:57 +00:00)
- [33731fc](https://github.com/davglass/license-checker/commit/33731fc482936a7a18fffe3fca2f3d41e3a625) 5.0.1 (@davglass)
- [fe06eae](https://github.com/davglass/license-checker/commit/fe06eaeef8844d05ad0f80d576a221dd605131de) Fixed replacem (@davglass)
- [997914f](https://github.com/davglass/license-checker/commit/997914fdbd2f8d9b7549eb156ae8ef7c0) fix git+https URLs (@graingert)
- [957](https://github.com/davglass/license-checker/pull/957) Merge pull request #57 from Damien-Larmine/doc-license-asterisk (@Damien-Larmine)
- [2adff2d](https://github.com/davglass/license-checker/commit/2adff2da98a5af79497a9162e4998eb5892ab31c3) Explicit the asterisk in license report (@Damien-Larmine)
- [b2fc9cf](https://github.com/davglass/license-checker/commit/b2fc9cf2a8ea008c7593037d046f245a7ce7f25) 5.0.0 (@davglass)
- [7f71c53](https://github.com/davglass/license-checker/commit/7f71c53833cf1318ffe84215fcb1291f9ce4fd5) updated contributors (@davglass)

### v5.0.0 (2016/01/22 15:31 +00:00)
- [955](https://github.com/davglass/license-checker/pull/955) Merge pull request #55 from davglass/devflag (@davglass)
- [ff1d8f2](https://github.com/davglass/license-checker/commit/ff1d8f20d5d7248a4f61e2fc9279fdfe91a6ec6) supporting --production and --development flags (@davglass)
- [953](https://github.com/davglass/license-checker/pull/953) Merge pull request #53 from swashcap/enhancement/#46-verbose-output (@swashcap)
- [954](https://github.com/davglass/license-checker/pull/954) Merge pull request #54 from davglass/travis-updates (@davglass)
- [2c80d9d](https://github.com/davglass/license-checker/commit/2c80d9d2dabc59340698630144256096a91e23f22) fixing tests in other node versions (@davglass)
- [78820ac](https://github.com/davglass/license-checker/commit/78820ac33ab8aed748098a5f8847705c8b2848e) travis config updates (@davglass)
- [f94263b](https://github.com/davglass/license-checker/commit/f94263b203046e2f53d64997b0261498010eb38d) Update documentation for debug use. (@swashcap)
- [429e44d](https://github.com/davglass/license-checker/commit/429e44d697527221ef22b03af9d67820015446f) Change `console.error` call to use debug module. (@swashcap)
- [7312daf](https://github.com/davglass/license-checker/commit/7312daf7af195a1b9d1b2f90fae15963fbb2ab4) Add debug to project. (@swashcap)

### v4.2.0 (2015/10/20 13:44 +00:00)
- [3583d92](https://github.com/davglass/license-checker/commit/3583d925e96fe9f63b3bb0110b11e8448aed6e7) 4.2.0 (@davglass)
- [981eeda](https://github.com/davglass/license-checker/commit/981eeda898084dea88d54ea29c5bda93c5313fb6) Fixes #49: Default to unknown if licenses null and added ISC support (@davglass)

### v4.1.2 (2015/09/29 13:46 +00:00)
Open Source Used In APIC-SE-BATMAN 2.1.1d 35262

- [ba946dd](https://github.com/davglass/license-checker/commit/ba946dd1065e762c36b27dcecd9bb7389ad18d4) 4.1.2 (@davglass)
- [#48](https://github.com/davglass/license-checker/pull/48) Merge pull request #48 from CantemoInternal/master (@CantemoInternal)
- [e314a6d](https://github.com/davglass/license-checker/commit/e314a6d1f505d19478c33871640a763fabff6abd) Fix json, csv and markdown output for license-checker (@mattiasa)

### v4.1.1 (2015/09/12 14:39 +00:00)
- [c918314](https://github.com/davglass/license-checker/commit/c918314bfc687b647d1d288bb5857dd1caac1393) 4.1.1 (@davglass)
- [#47](https://github.com/davglass/license-checker/pull/47) Merge pull request #47 from tmpvar/ensure-bin-runs (@tmpvar)
- [a842eca](https://github.com/davglass/license-checker/commit/a842eca4f008c07df3039dcaacd4641d7273625) add missing } (@tmpvar)
- [1d513bb](https://github.com/davglass/license-checker/commit/1d513bb673d726f34286061446f965e46d96170e) ensure bin/license-checker works at a high-level (@tmpvar)

### v4.1.0 (2015/09/09 14:52 +00:00)
- [a4bb437](https://github.com/davglass/license-checker/commit/a4bb437ffafa806c0832f877da2de7a107863d0a1f) 4.1.0 (@davglass)
- [ddd317a](https://github.com/davglass/license-checker/commit/ddd317a5a09344f0021812b8dece2f39bbbb07a0) fixed all of the windows line endings (@davglass)
- [11e6487](https://github.com/davglass/license-checker/commit/11e64870484435e1e6f8eefb90f13e6b2f737a6b) Fix issues caused by merge (@ptusch)
- [313a7ed](https://github.com/davglass/license-checker/commit/313a7edc3dbfd850e43ba8da89306d3c89326bc) Merge remote-tracking branch 'remotes/upstream/master' into ft_custom_format (@ptusch)
- [1f5e326](https://github.com/davglass/license-checker/commit/1f5e326d8ca91fc8a396b9e02efe3eac9fd8a2a2) added contributors to package.json (@davglass)
- [#45](https://github.com/davglass/license-checker/pull/45) Merge pull request #45 from hufsm/ft_error_handling (@hufsm)
- [c806034](https://github.com/davglass/license-checker/commit/c806034ab6feae1297d0c23afb536b290ba8c81) Remove unused var statement (@ptusch)
- [778b1fa](https://github.com/davglass/license-checker/commit/778b1fa1a9c1be0c816545165020522d2dbf17ef) More tests to fulfill the required % (@ptusch)
- [22257d9](https://github.com/davglass/license-checker/commit/22257d95490765db8165788c848c2b5b62699f1aa) Add tests for licenses (WTFPL) (@ptusch)
- [0fe7e561](https://github.com/davglass/license-checker/commit/0fe7e5611a73970f9e9e04aab2d4b3e9f8254395b2) Remove unused filter option (never used) (@ptusch)
- [83ca10](https://github.com/davglass/license-checker/commit/83ca10493a5a05ff6ac0e80b5c03f9cd4f65d6) Change license shortcut for WTFPL (@ptusch)
- [3e348db](https://github.com/davglass/license-checker/commit/3e348db25f3eb7bd356efef3cd3e469329d8c8c) More tests for the custom formatter (@ptusch)
- [96c2d6f](https://github.com/davglass/license-checker/commit/96c2d6f2c509df2bf3f6db883a613fead9ecc) Add tests for customFormatter (@ptusch)
- [c9948c4](https://github.com/davglass/license-checker/commit/c9948c4b72cccd053ba63f4f26a6f60a46493) Add test configs (@ptusch)
- [4b2dea0](https://github.com/davglass/license-checker/commit/4b2dea0c124f6a63ab2129652825e3b5a6570) Fix merge issues - semicolon slipped through (@ptusch)
- [cc7662a](https://github.com/davglass/license-checker/commit/cc7662a46719e97745410e3ac2b782f937dc54ef) Merge branch 'master' into ft_error_handling (@ptusch)
- [04a2294](https://github.com/davglass/license-checker/commit/04a2294b82a8227c8c83d76f73c6e7d62a5f33) Add additional test (@ptusch)
- [52fa91c](https://github.com/davglass/license-checker/commit/52fa91c5c63473576e6e97f400a27a773502d2) Add parseJson test (@ptusch)
- [d846c5e](https://github.com/davglass/license-checker/commit/d846c5e6970737dd3085688e7b601e9ea4546417) Fix tests after merge conflict (@ptusch)
- [7eac458](https://github.com/davglass/license-checker/commit/7eac4583f8003b5bda4ef966768b457fe8dc44) Merge branch 'master' into ft_custom_format (@ptusch)
- [4aa7065](https://github.com/davglass/license-checker/commit/4aa7065c5eef88d49c3684369b2edd9802c3f374) Add tests for customFormat (@ptusch)

### v4.0.0 (2015/09/04 13:40 +00:00)
- [3fbba5b](https://github.com/davglass/license-checker/commit/3fbba5bd5a489ea8c17328eabf71c4d5e9beb17e) 4.0.0 (@davglass)
- [ce8d661](https://github.com/davglass/license-checker/commit/ce8d661a849af7855c16231ce675c67a2f7c7) tests: added 100% coverage for license file (@davglass)
- [#42](https://github.com/davglass/license-checker/pull/42) Merge pull request #42 from ptusch/ft_onlyunknown (@ptusch)
- [3829e90](https://github.com/davglass/license-checker/commit/3829e90413be0362f19e755048e9218c372abf68) Add tests for the error generation (@ptusch)
- [1a93a41](https://github.com/davglass/license-checker/commit/1a93a41569a53a1580c94c2c093a5bc127ad2692) Add error handling (@ptusch)
- [6b79145](https://github.com/davglass/license-checker/commit/6b791457463dca71b22b90eeccf16bdf982db682) Add additional check to negate the test (@ptusch)
- [559e72c](https://github.com/davglass/license-checker/commit/559e72ccab2420bc42f28b498702dad13e967a) Add test for the first function call. (@ptusch)
- [faf8fffd](https://github.com/davglass/license-checker/commit/faf8fffd69fd8ae47584a9b47b57a76ea738856) Remove trivial UNKNOWN check (@ptusch)
- [6fa44e6](https://github.com/davglass/license-checker/commit/6fa44e6c8045ab2b0a1291b45990edf52adfc0c2) Merge branch 'master' into ft_custom_format (@ptusch)
- [e0f2d39](https://github.com/davglass/license-checker/commit/e0f2d3991c9b4d40dc6980b1f31461408ada822b1f) Merge branch 'master' into ft_onlyunknown (@ptusch)
- [c867959](https://github.com/davglass/license-checker/commit/c8679592858805d7ec0d304a39ec5cf079e6fa7c7) Add option to only show unknown licenses (@ptusch)
- [#43](https://github.com/davglass/license-checker/pull/43) Merge pull request #43 from senotrusov/master (@senotrusov)
- [d7a663f](https://github.com/davglass/license-checker/commit/d7a663f9d4f2b4d7a648a62dcb9d84d5667ee540) Add test for exclude option. (@senotrusov)
- [45a27de](https://github.com/davglass/license-checker/commit/45a27de02a3c1d57a86e3f8e14b6e335788c23ba) Add option to exclude from the output modules which licenses are in the comma-separated list (@senotrusov)
- [#41](https://github.com/davglass/license-checker/pull/41) Merge pull request #41 from ptusch/ft_path_to_unknown_dependency (@ptusch)
- [1ff5f22](https://github.com/davglass/license-checker/commit/1ff5f225fd2ba97edf3e3f6462981832740c19) Add option to see the path of a dependency if unknown (@ptusch)
- [ea46d29](https://github.com/davglass/license-checker/pull/41) Merge pull request #41 from ptusch/ft_path_to_unknown_dependency (@ptusch)
- [af043a2](https://github.com/davglass/license-checker/commit/af043a2c11af45d28bfe71914cd10672855b3297) Merge branch 'master' into ft_custom_format (@ptusch)
- [2d94a19](https://github.com/davglass/license-checker/commit/2d94a19ece177836345a4227893a82d956141b2e) updating the docs for --unknown to make it clear (@davglass)
- [38a2bd2](https://github.com/davglass/license-checker/commit/38a2bd28a9597fadb06d844258f1070054b38bdcf) Fix codestyle and whitespaces (@ptusch)
- [dd173ba](https://github.com/davglass/license-checker/commit/dd173badc65368dc6140476f5eae3768fbb9618) Add --customPath in README.md (@ptusch)
- [911fc1c](https://github.com/davglass/license-checker/commit/911fc1c6b5cc27a32aac60bb409c08be138bc707) Finalize the customFormat (markdown) (@ptusch)
- [8102091](https://github.com/davglass/license-checker/commit/8102091f7949fa8b737cfc803e4aeed3624ba81148) Add functionality to add a custom format (@ptusch)

### v3.1.0 (2015/06/29 14:25 +00:00)
- [59e1e58](https://github.com/davglass/license-checker/commit/59e1e58ca0bea1cd38e3da1712fe7ca624d86b0) 3.1.0 (@davglass)
- [0e33f7a](https://github.com/davglass/license-checker/commit/0e33f7a2cb9fa69d13d1e2b5c69f70f885e09e08) reformatted code, fixed lint issues and added tests (@davglass)
- [83a7f09](https://github.com/davglass/license-checker/commit/83a7f0933d1ccf331279e53f5ece13e4efface91) Merge branch 'asMarkdown' of git://github.com/ptusch/license-checker into ptusch-asMarkdown (@davglass)
- [703ad47](https://github.com/davglass/license-checker/commit/703ad4714173559e05267e8fd24c74e5b9d3ae0) fixing tests (@davglass)
- [2d9fffd](https://github.com/davglass/license-checker/commit/2d9fffd75192e9812692c9099481d23e265bb493) Added Markdown Option (@ptusch)
- [67dca36](https://github.com/davglass/license-checker/commit/67dca365b941a7265e4a98d2de533b22c761b169) Remove color tags (@ptusch)

### v3.0.3 (2015/06/03 13:35 +00:00)
- [7475c12](https://github.com/davglass/license-checker/commit/7475c129bf219289e4161d6962a962ae537401e8) 3.0.3 (@davglass)
- [c7daef0](https://github.com/davglass/license-checker/commit/c7daef0fe5317a17b3aef61e8c118f6ac6bb43a56) spdx license (@davglass)

### v3.0.2 (2015/05/12 20:29 +00:00)
- [01f3b53](https://github.com/davglass/license-checker/commit/01f3b538498be6243d38e0d95a4478e5fe3cfa5) 3.0.2 (@davglass)
- [fc0c083](https://github.com/davglass/license-checker/commit/fc0c0832ee291c55e53e6f6b37a7b989f191bc7) defensive code, fixes #34 (@davglass)

### v3.0.1 (2015/05/04 12:28 +00:00)
- [0479570](https://github.com/davglass/license-checker/commit/0479570af87ecc9b37fbb25aface7faae6636) 3.0.1 (@davglass)
- [d85e355](https://github.com/davglass/license-checker/commit/d85e355b55998952facf202eabf8d374afe69a7e) Checking for valid path first (@davglass)

### v3.0.0 (2015/04/24 14:38 +00:00)
- [e22b61d](https://github.com/davglass/license-checker/commit/e22b61d5d32fe7fbb18627f55a97e1863a78096) 3.0.0 (@davglass)
- [fde9635](https://github.com/davglass/license-checker/commit/fde963583dd207eca4badfbb3e0d333a038f17b5) always try to find and log the license file (@davglass)

### v2.0.2 (2015/01/26 18:18 +00:00)
- [490f31d](https://github.com/davglass/license-checker/commit/490f31d6820f0d68814cfe27adf3af1ae6d58f733) 2.0.2 (@davglass)
- [3aefefdb](https://github.com/davglass/license-checker/commit/a3aefefdb8fa7d7ec64714debf793d757a9e8ad065) fixes #30 (@davglass)

### v2.0.1 (2015/01/12 18:34 +00:00)
- [898fbd5](https://github.com/davglass/license-checker/commit/898fbd53fa289338cf8a9a17353eae440c2a6c525) 2.0.1 (@davglass)
- [2da23db](https://github.com/davglass/license-checker/commit/2da23db2f2f20be7e73efdf9335e4d7783a225) cleaned up spacing and moved vars around (@davglass)
- [d47dbe4](https://github.com/davglass/license-checker/commit/d47dbe45c992dbb15bf8eaf7f18ee0ca737) fixes #29 (@davglass)

### v2.0.0 (2014/12/04 16:34 +00:00)
- [f94edfe](https://github.com/davglass/license-checker/commit/f94edfece7a9914b4a36f455e8bffc6230d6f7a5e) 2.0.0 (@davglass)
- [f4c7b1a](https://github.com/davglass/license-checker/commit/f4c7b1a3d4e9c0e4753a9b267e51714fe7f051e) syntax cleanup (@davglass)
- [d189623](https://github.com/davglass/license-checker/commit/d189623a5649621ee57f9a9018777d769217194) Document CLI options in Readme. (@timoxley)
- [11e204c](https://github.com/davglass/license-checker/commit/11e204c5c078eae1f165fa010da229d29bf4b5) Default to --no-colour for json, csv & file output. (@timoxley)
- [7e80d50](https://github.com/davglass/license-checker/commit/7e80d50c733f8ee4ec7b4a79dc3344b3dd330c4ff) Add --out flag for writing an output file. (@timoxley)
- [47bffc9](https://github.com/davglass/license-checker/commit/47bffc9e0e249b2847c8ed4f3eaad00dcd731b9) Always print to stdout, don't write files. (@timoxley)
- [b72580](https://github.com/davglass/license-checker/commit/b725800d2dd4f8b0f0994867579d4c5e3de0ee2a) Don't print info messages to stdout. (@timoxley)

### v1.0.1 (2014/11/27 15:23 +00:00)
- [e60f792](https://github.com/davglass/license-checker/commit/e60f792159351a7ccff17af73e289afaee261a5) 1.0.1 (@davglass)
- [37f4178](https://github.com/davglass/license-checker/commit/37f417822dc8804978d1b4ed84190d327df15c) Merge branch 'fixinfiniterecursion' of github.com:yzapuchlak/license-checker into yzapuchlak-fixinfiniterecursion (@davglass)
- [dc78ea0](https://github.com/davglass/license-checker/commit/dc78ea0dca546283440c89efec2d6818d4ec1c1) sticking vows 0.8.0 for testing (@davglass)
- [bd549b3](https://github.com/davglass/license-checker/commit/bd549b3b68e74ffdd0e08dacc10df588a8b51ca6) Fixed issue where circular dependencies in dependency tree would cause the flatten function to infinitely recurse. If the current key is found to be already in the data object (which means it was already processed), we stop processing that key and return the data object. (@yzapuchlak)

### v1.0.0 (2014/11/21 13:56 +00:00)
- [917193d](https://github.com/davglass/license-checker/commit/917193dab27147534976b71307a77f48198ca322)
1.0.0 (@davglass)
- [63e5f9c](https://github.com/davglass/license-checker/commit/63e5f9c77e348720b3867171bcc67541e846d088) added options.filter to checker.init (@davglass)

### v0.1.2 (2014/11/20 15:48 +00:00)
- [8e5f5f0](https://github.com/davglass/license-checker/commit/8e5f5f07f83252e4039f6c7d16cc266acc1a33a) 0.1.2 (@davglass)
- [3d7a74e](https://github.com/davglass/license-checker/commit/3d7a74e90122f908057b2008ab29d8bd49011291) fixed lint issue (@davglass)

### v0.1.1 (2014/11/20 15:47 +00:00)
- [750d507](https://github.com/davglass/license-checker/commit/750d5079d32b44ecc984ff7ed672498d1b197235) 0.1.1 (@davglass)
- [94522e0](https://github.com/davglass/license-checker/commit/94522e0994343dfdf163c3f2c5cabc3e6aa196c8f) fixed merge issues (@davglass)

### v0.1.0 (2014/11/20 15:41 +00:00)
- [8127f5e](https://github.com/davglass/license-checker/commit/8127f5e79eeceb7df86cd5f694080e4183dcb11) 0.1.0 (@davglass)
- [76c71ac](https://github.com/davglass/license-checker/commit/76c71ac46baeca8c349fe5892dc659e859b9608) Updated to newer read-installed (@davglass)

### v0.0.10 (2014/08/12 12:48 +00:00)
- [807507d](https://github.com/davglass/license-checker/commit/807507df1a293bc0360adff725a9f911331ff2b) 0.0.10 (@davglass)
- [e39ad9b](https://github.com/davglass/license-checker/commit/e39ad9be6bced545772ce241e2e7aba8f40d5bba) Added checking that the license file is a normal file, because otherwise an appropriately named directory crashes the license-checker through EISDIR, illegal operation on a directory.
- [40ca44da](https://github.com/davglass/license-checker/commit/40ca44dabc163ca77487b1de249bd295952faa9) colorize (@couchand)

### v0.0.9 (2014/07/29 01:48 +00:00)
- [c14ef79](https://github.com/davglass/license-checker/commit/c14ef79f0f950ff0985e7e0b3138147b98ab1ec) 0.0.9 (@davglass)
- [ba1b66b](https://github.com/davglass/license-checker/commit/ba1b66b7172a2f9f8dbdce56f40206820bc0916b) Fixes #12 - Using some nicer regexes (@davglass)
- [bce94d5](https://github.com/davglass/license-checker/commit/bce94d5a8ab2f146356851776b253df65fb750) case insensitive check (@davglass)
- [87c3406](https://github.com/davglass/license-checker/commit/87c3406ae2507eaf1d00d59266cb59a16e7c48) Allow for LICENCE (@gdw2)

### v0.0.8 (2014/07/07 20:10 +00:00)
- [6ad6ee2](https://github.com/davglass/license-checker/commit/6ad6ee21813e698e7f995e98dcafabdb961f6a33) 0.0.8 (@davglass)
- [b8c5815](https://github.com/davglass/license-checker/commit/b8c58151135f57d91f0d11cbf194d034c012073f) added tests and refactored the code a little (@davglass)
- [275f276](https://github.com/davglass/license-checker/commit/275f276d66d5635f9cb5b7e9a978e286f2d174) Added --csv option to readme file
- [d91eb72](https://github.com/davglass/license-checker/commit/d91eb7289466853ae6e88448b953b4d3d98ebab5) Apparently abbrev is now at version 1.0.5 which caused the unit test to fail.
- [40b4a42](https://github.com/davglass/license-checker/commit/40b4a420e520c2008b9395d1a8fddf38b56f846f5) Modified changes based on lshint output during Travis build
- [54e2390](https://github.com/davglass/license-checker/commit/54e2390cefd1d664a15cd3a84347227889ff48b) Added csv output option similar to the existing JSON output option. Requires an output filename.

### v0.0.7 (2014/02/26 04:52 +00:00)
- [1ce6d42](https://github.com/davglass/license-checker/commit/1ce6d42147b2d0237870818e8059003b331816cf) 0.0.7 (@davglass)
- [7d04195](https://github.com/davglass/license-checker/commit/7d041959540c68b3c5f427007c43cd6c736adfb) Added not check and a proper test (@davglass)
- [40d6e25](https://github.com/davglass/license-checker/commit/40d6e2580946c3ce1d408ebe28ff523852e8eb2) Undefined handling (@garrows)
- [90217d0](https://github.com/davglass/license-checker/commit/90217d070f62cf6eb4c7b1616d5eef6ae840d) travis Stuff (@davglass)
- [2bd76c8](https://github.com/davglass/license-checker/commit/2bd76c894f740cd83f62464e0c7341832c6432dbb) 0.0.6 (@davglass)
- [6f390ff](https://github.com/davglass/license-checker/commit/6f390ff60b31a07939e6d325796dcbefb5907) Added some better tests (@davglass)
- [2dbac3](https://github.com/davglass/license-checker/commit/2dbac37b5795ceb6db534520d041dc4bc3153f) Looking for WTFPL as well as the string (@davglass)
- [5d91a07](https://github.com/davglass/license-checker/commit/5d91a073a876ee9a497c1e3b83198e97e144fd) Flattened array of one (@davglass)
- [e95da82](https://github.com/davglass/license-checker/commit/e95da820e63e0d56c4567f1cfcfad07142d3110eca) Fixed extra var (@davglass)
- [fe8f2f7](https://github.com/davglass/license-checker/commit/fe8f2f7d935d20c0c48734c9df55d59f4222d) Removing unnecessary log statement (@paulmand3l)
- [72a6f24](https://github.com/davglass/license-checker/commit/72a6f2403de43ecf5ec07bb504cb931ce053f6a3) Adding license checks in the LICENSE file (and variations) (@paulmand3l)
- [#7](https://github.com/davglass/license-checker/pull/7) Merge pull request #7 from jamesbloomer/master (@jamesbloomer)
- [a81ee0](https://github.com/davglass/license-checker/commit/a81ee0a27f580688e371cc15015e484f591bb92) Fixed missing "install" in npm -g (@jamesbloomer)
- [416b012](https://github.com/davglass/license-checker/commit/416b01219e07a8274e05cd883ec050376902adeb) Updated Version (@davglass)
- [6d9bd1e](https://github.com/davglass/license-checker/commit/6d9bd1e195202e871693d4b1e9bacec055683e8b) Fixed lint issue and added a test placeholder. Will add more tests soon (@davglass)
- [655a316](https://github.com/davglass/license-checker/commit/655a316f644d8aefc449f8bb8e8878a95a8b153e) Added Travis test file (@davglass)
- [99895df](https://github.com/davglass/license-checker/commit/99895df6d3ac0f9a4e8c9353111fb1b3f88a688e) Version Bump (@davglass)
- [#4](https://github.com/davglass/license-checker/pull/4) Merge pull request #4 from badunk/refactor (@badunk)
- [1123a1b](https://github.com/davglass/license-checker/commit/1123a1baecfc1975f8c36cb59952254cd66c31017) Merge branch 'master' of https://github.com/davglass/license-checker (@badunk)
- [191612e](https://github.com/davglass/license-checker/commit/191612e5c21a01bd4533682899a14cc5ff1c6fb13) Version Bump (@davglass)
- [#2](https://github.com/davglass/license-checker/pull/2) Merge pull request #2 from badunk/circular (@badunk)
- [9b5a117](https://github.com/davglass/license-checker/commit/9b5a1175892254e96d72f3d8dc793dce42bde37) fixed special case when an empty array is passed to license/licenses (@badunk)
- [025668b](https://github.com/davglass/license-checker/commit/025668b0a62b0d5b58662ce6aedd91de909a6ef) fixed bug with multiple licenses objects not showing (@badunk)
- [e6bd5f2](https://github.com/davglass/license-checker/commit/e6bd5f2a8e59ebed29982014fa4d4586f63d06a) cleaned up the code (@badunk)
- [e6bd5f2](https://github.com/davglass/license-checker/commit/e6bd5f2a8e59ebed29982014fa4d4586f63d06a) fixed bug with multiple licenses objects not showing (@badunk)
- [e6bd5f2](https://github.com/davglass/license-checker/commit/e6bd5f2a8e59ebed29982014fa4d4586f63d06a) cleaned up the code (@badunk)
- [e6bd5f2](https://github.com/davglass/license-checker/commit/e6bd5f2a8e59ebed29982014fa4d4586f63d06a) fixed bug with multiple licenses objects not showing (@badunk)
- [825b40c](https://github.com/davglass/license-checker/commit/825b40cb61fee36dd60751da9d44e28853587ac) Version Bump (@davglass)
- [#1](https://github.com/davglass/license-checker/pull/1) Merge pull request #1 from mwilliamson/master (@mwilliamson)
- [2f24319](https://github.com/davglass/license-checker/commit/2f24319dd8dd212a1f78ad91af7fee21d50ab762) Don't ignore license field if it's a string (@mwilliamson)
- [78c34f](https://github.com/davglass/license-checker/commit/78c34f75b04a7541bf23d596bbaae5447492c53) Initial Commit (@davglass)

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### v4.0.1 (2016-12-14)

#### WHOOPS

* [fb9b1ce](https://github.com/npm/nopt/commit/fb9b1ce57b3c69b4f7819015be87719204f77ef6)

  Merged so many patches at once that the code fencing

  ([$adius](https://github.com/adius)) added got broken. Sorry,

  ([$adius](https://github.com/adius))!

  ([$othiym23](https://github.com/othiym23))

### v4.0.0 (2016-12-13)

#### BREAKING CHANGES

* [651d447](https://github.com/npm/nopt/commit/651d4473946096d341a480bbe56793de3fc706aa)

  When parsing String-typed arguments, if the next value is `""`, don't simply

  swallow it. ([$samjonester](https://github.com/samjonester))

#### PERFORMANCE TWEAKS

* [3370ce8](https://github.com/npm/nopt/commit/3370ce87a7618ba228883861db84ddbcdf252a9)

  Simplify initialization. ([$elidoran](https://github.com/elidoran))

* [356e58e](https://github.com/npm/nopt/commit/356e58e3b3b431a4b1af7fd7bdec44c2c0526a09)

  Store `Array.isArray(types[arg])` for reuse. ([$elidoran](https://github.com/elidoran))

* [0d95e90](https://github.com/npm/nopt/commit/0d95e90515844f266015b56d2c80b94e5d14a07e)

  Interpret single-item type arrays as a single type. ([$samjonester](https://github.com/samjonester))

* [07c69d3](https://github.com/npm/nopt/commit/07c69d38b5186450941fbb505550becb78a0e925)

  Simplify key-value extraction. ([$elidoran](https://github.com/elidoran))

* [39b6e5c](https://github.com/npm/nopt/commit/39b6e5c6ac47f60cd4a1fbbee5cd4e834c254)

  Only call `Date.parse(val)` once. ([$elidoran](https://github.com/elidoran))

* [934943d](https://github.com/npm/nopt/commit/934943dffe0cb55123a2b15959fe2a359319a5dbd)

  Use `osenv.home()` to find a user's home directory instead of assuming it's

  always `$HOME`. ([$othiym23](https://github.com/othiym23))

#### TEST & CI IMPROVEMENTS

* [326fff7](https://github.com/npm/nopt/commit/326fff7f78a00bcd316adecf69075f8a8093619)

  Fix `\tmp` test to work on Windows. ([$elidoran](https://github.com/elidoran))

* [c89d31a](https://github.com/npm/nopt/commit/c89d31a49d14f2238bc6672db08da697bbc57f1b)

  Only run Windows tests on Windows, only run Unix tests on a Unix.
Refresh Travis to run the tests against the currently-supported batch of npm versions. (@helio)

*[`affd3d1`](https://github.com/npm/nopt/commit/affd3d1d0addffa93006397b2013b18447339366)*

`tap@8.0.1` (@othiym23)

#### DOC TWEAKS

*[`5271229`]*

Use JavaScript code block for syntax highlighting.

*[`c0d156f`]*

The code sample in the README had `many2: [ oneThing ]`, and now it has `many2: [ two, things ]`. (@silkentrance)

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Unless otherwise agreed, The Qt Company shall not be responsible for providing any service or support to Customers.

9. CONFIDENTIALITY
Each Party acknowledges that during the Term of this Agreement each Party may receive information about the other Party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other Party, and the value of which would be significantly reduced if disclosed to third parties ("Confidential Information"). Accordingly, when a Party (the "Receiving Party") receives Confidential Information from the other Party (the "Disclosing Party"), the Receiving Party shall only disclose such information to employees and Contractors on a need to know basis, and shall cause its employees and employees of its Affiliates to: (i) maintain any and all Confidential Information in confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each Party
shall take reasonable measures to protect the Confidential Information of the other Party, which measures shall not be less than the measures taken by such Party to protect its own confidential and proprietary information.

Obligation of confidentiality shall not apply to information that (i) is or becomes generally known to the public through no act or omission of the Receiving Party; (ii) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (iii) is developed independently by employees or Contractors of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party, as proven by the written records of the Receiving Party; (iv) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (v) the Receiving Party is legally compelled to disclose, in which case the Receiving Party shall notify the Disclosing Party of such compelled disclosure and assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to limit the scope of disclosure and the dissemination of disclosed Confidential Information to the minimum extent necessary.

The obligations under this Section 9 shall continue to remain in force for a period of five (5) years after the last disclosure, and, with respect to trade secrets, for so long as such trade secrets are protected under applicable trade secret laws.

10. FEES, DELIVERY AND PAYMENT
10.1. License Fees
License Fees are described in The Qt Company's standard price list, quote or Purchase Order confirmation or in an appendix hereto, as the case may be.

The License Fees shall not be refunded or claimed as a credit in any event or for any reason whatsoever.

10.2. Ordering Licenses
Licensee may purchase Development Licenses and Distribution Licenses pursuant to agreed pricing terms or, if no specific pricing terms have been agreed upon, at The Qt Company's standard pricing terms applicable at the time of purchase. Unless specifically otherwise provided, any pricing terms referenced in this Agreement shall be valid for twelve (12) months from the date of this Agreement.

Licensee shall submit all purchase orders for Development Licenses and Distribution Licenses to The Qt Company by email or any other method acceptable to The Qt Company (each such order is referred to herein as a "Purchase Order") for confirmation, whereupon the Purchase Order shall become binding between the Parties.

10.3. Distribution License Packs
Unless otherwise agreed, Distribution Licenses shall be purchased by way of
Upon due payment of the ordered Distribution License Pack(s), the Licensee will have an account of Distribution Licenses available for distributing the Redistributables in accordance with this Agreement.

Each time Licensee distributes a copy of Redistributables, then one Distribution License is used, and Licensee's account of available Distribution Licenses is decreased accordingly. Licensee may distribute copies of the Redistributables so long as Licensee has Distribution Licenses remaining on its account.

10.4. Payment Terms
License Fees and any other charges under this Agreement shall be paid by Licensee no later than thirty (30) days from the date of the applicable invoice from The Qt Company.

The Qt Company will submit an invoice to Licensee after the date of this Agreement and/or after The Qt Company receives a Purchase Order from Licensee.

A late payment charge of the lower of (a) one percent per month; or (b) the interest rate stipulated by applicable law, shall be charged on any unpaid balances that remain past due.

10.5. Taxes
All License Fees and other charges payable hereunder are gross amounts but exclusive of any value added tax, use tax, sales tax, withholding tax and other taxes, duties or tariffs ("Taxes") levied directly for the sale, delivery or use of Licensed Software hereunder pursuant to any applicable law. Such applicable Taxes shall be paid by Licensee to The Qt Company, or, where applicable, in lieu of payment of such Taxes to The Qt Company, Licensee shall provide an exemption certificate to The Qt Company and any applicable authority.

11. RECORD-KEEPING AND REPORTING OBLIGATIONS; AUDIT RIGHTS
11.1. Licensee's Record-keeping
Licensee shall at all times during the Term of this Agreement and for a period of seven (7) years thereafter maintain Licensee's Records in an accurate and up-to-date form. Licensee's Records shall be adequate to reasonably enable The Qt Company to determine Licensee's compliance with the provisions of this Agreement. The records shall conform to general good accounting practices.

Licensee shall, within thirty (30) days from receiving The Qt Company's request to that effect, deliver to The Qt Company a report based on Licensee's Records, such report to contain information, in sufficient detail, on (i) number and identity of users working with Licensed Software or Open Source Qt, (ii) copies of Redistributables distributed by Licensee during the most recent calendar quarter and/or any other term specified by The Qt Company, (iii) number of undistributed copies of Redistributables and corresponding number of unused
11.2. The Qt Company’s Audit Rights
The Qt Company or an independent auditor acting on behalf of The Qt Company’s, may, upon at least five (5) business days’ prior written notice and at its expense, audit Licensee with respect to the Licensee’s use of the Licensed Software, but not more frequently than once during each 6-month period. Such audit may be conducted by mail, electronic means or through an in-person visit to Licensee’s place of business. Any such in-person audit shall be conducted during regular business hours at Licensee’s facilities and shall not unreasonably interfere with Licensee’s business activities. The Qt Company or the independent auditor acting on behalf of The Qt Company shall be entitled to inspect Licensee’s Records and conduct necessary interviews of Licensee’s relevant employees and Contractors. All such Licensee’s Records and use thereof shall be subject to an obligation of confidentiality under this Agreement.

If an audit reveals that Licensee is using the Licensed Software beyond scope of the licenses Licensee has paid for, Licensee agrees to pay The Qt Company any amounts owed for such unauthorized use within 30 days from receipt of the corresponding invoice from The Qt Company. In addition, in the event the audit reveals a material violation of the terms of this Agreement (without limitation, either (i) underpayment of more than 10% of License Fees or 10,000 euros (whichever is more) or (ii) distribution of products, which include or result from Prohibited Combination, shall be deemed a material violation for purposes of this section), then the Licensee shall pay The Qt Company’s reasonable cost of conducting such audit.

12. TERM AND TERMINATION
12.1. Agreement Term
This Agreement shall enter into force upon due acceptance by both Parties and remain in force for as long as there is any Development License(s) purchased under this Agreement in force (“Term”), unless and until terminated pursuant to the terms of this Section 12.

12.2. Termination and suspension of rights
Either Party shall have the right to terminate this Agreement upon thirty (30) days prior written notice if the other Party commits a material breach of any obligation of this Agreement and fails to remedy such breach within such notice period.

Instead of termination, The Qt Company shall have the right to suspend or withhold grants of all rights to the Licensed Software hereunder, including but not limited to the Development Licenses, Distribution License, and Support, should Licensee fail to make payment in timely fashion or otherwise violates or is reasonably suspected to violate its obligations or terms of this Agreement, and where such violation or breach is not cured within five (5) business days following The Qt Company's written notice thereof.
12.3. Mutual Right to Terminate
Either Party shall have the right to terminate this Agreement immediately upon written notice in the event that the other Party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other Party.

12.4. Parties Rights and Duties upon Termination
Upon expiry or termination of the Agreement, Licensee shall cease and shall cause all Designated Users (including those of its Affiliates' and Contractors') to cease using the Licensed Software and distribution of the Redistributables under this Agreement.

Notwithstanding the above, in the event the Agreement expires or is terminated:
(i) as a result of The Qt Company choosing not to renew the Development License(s) as set forth in Section 3.1, then all valid licenses possessed by the Licensee at such date shall be extended to be valid in perpetuity under the terms of this Agreement and Licensee is entitled to purchase additional licenses as set forth in Section 10.2; or
(ii) for reason other than by The Qt Company pursuant to item (i) above or pursuant to Section 12.2, then the Licensee is entitled, for a period of six (6) months after the effective date of termination, to continue distribution of Devices under the Distribution Licenses paid but unused at such effective date of termination.

Upon any such termination the Licensee shall destroy or return to The Qt Company all copies of the Licensed Software and all related materials and will certify the same to The Qt Company upon its request, provided however that Licensee may retain and exploit such copies of the Licensed Software as it may reasonably require in providing continued support to Customers.

Expiry or termination of this Agreement for any reason whatsoever shall not relieve Licensee of its obligation to pay any License Fees accrued or payable to The Qt Company prior to the effective date of termination, and Licensee shall immediately pay to The Qt Company all such fees upon the effective date of termination. Termination of this Agreement shall not affect any rights of Customers to continue use of Applications and Devices (and therein incorporated Redistributables).

12.5. Extension in case of bankruptcy
In the event The Qt Company is declared bankrupt under a final, non-cancellable decision by relevant court of law, and this Agreement is not, at the date of expiry of the Development License(s) pursuant to Section 3.1, assigned to party, who has assumed The Qt Company's position as a legitimate licensor of
Licensed Software under this Agreement, then all valid licenses possessed by the Licensee at such date of expiry, and which the Licensee has not notified for expiry, shall be extended to be valid in perpetuity under the terms of this Agreement.

13. GOVERNING LAW AND LEGAL VENUE

In the event this Agreement is in the name of The Qt Company Inc., a Delaware Corporation, then:

(i) this Agreement shall be construed and interpreted in accordance with the laws of the State of California, USA, excluding its choice of law provisions;
(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
(iii) any dispute, claim or controversy arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this Agreement to arbitrate, shall be determined by arbitration in San Francisco, USA, before one arbitrator. The arbitration shall be administered by JAMS pursuant to JAMS' Streamlined Arbitration Rules and Procedures. Judgment on the Award may be entered in any court having jurisdiction. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

In the event this Agreement is in the name of The Qt Company Ltd., a Finnish Company, then:

(i) this Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions;
(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
(iii) any disputes, controversy or claim arising out of or relating to this Agreement, or the breach, termination or validity thereof shall be finally settled by arbitration in accordance with the Arbitration Rules of Finland Chamber of Commerce. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

14. GENERAL PROVISIONS

14.1. No Assignment

Except in the case of a merger or sale of substantially all of its corporate assets, Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written
consent of The Qt Company, which shall not be unreasonably withheld or delayed. The Qt Company shall be entitled to freely assign or transfer any of its rights, benefits or obligations under this Agreement.

14.2. No Third-Party Representations
Licensee shall make no representations or warranties concerning the Licensed Software on behalf of The Qt Company. Any representation or warranty Licensee makes or purports to make on The Qt Company's behalf shall be void as to The Qt Company.

14.3. Surviving Sections
Any terms and conditions that by their nature or otherwise reasonably should survive termination of this Agreement shall so be deemed to survive. Such sections include especially the following: 1, 2, 6, 7, 9, 11, 12, 13 and 14.

14.4. Entire Agreement
This Agreement, the exhibits hereto, the License Certificate and any applicable Purchase Order accepted by The Qt Company constitute the complete agreement between the Parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein.

In the event of any conflict or inconsistency between this Agreement and any Purchase Order, the terms of this Agreement will prevail over the terms of the Purchase Order with respect to such conflict or inconsistency.

Parties specifically acknowledge and agree that this Agreement prevails over any click-to-accept or similar agreements the Designated Users may need to accept online upon download of the Licensed Software, as may be required by The Qt Company’s applicable processes relating to Licensed Software.

14.5. Modifications
No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each Party. No term or condition contained in Licensee's Purchase Order ("Deviating Terms") shall apply unless The Qt Company has expressly agreed such Deviating Terms in writing. Unless and to the extent expressly agreed by The Qt Company, any such Deviating Terms shall be deemed void and with no legal effect. For clarity, delivery of the Licensed Software following the receipt of the Purchase Order including Deviating Terms shall not constitute acceptance of such Deviating Terms.”

14.6. Force Majeure
Except for the payment obligations hereunder, neither Party shall be liable to the other for any delay or non-performance of its obligations hereunder in the event and to the extent that such delay or non-performance is due to an event of act of God, terrorist attack or other similar unforeseeable catastrophic event that prevents either Party for fulfilling its obligations under this
Agreement and which such Party cannot avoid or circumvent ("Force Majeure Event"). If the Force Majeure Event results in a delay or non-performance of a Party for a period of three (3) months or longer, then either Party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other Party.

14.7. Notices
Any notice given by one Party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving Party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified for each Party on the signature page. Each communication and document made or delivered by one Party to the other Party pursuant to this Agreement shall be in the English language.

14.8. Export Control
Licensee acknowledges that the Redistributables, as incorporated in Applications or Devices, may be subject to export control restrictions under the applicable laws of respective countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the Redistributables and exercise of licenses hereunder and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Redistributables, Applications and/or Devices.

14.9. No Implied License
There are no implied licenses or other implied rights granted under this Agreement, and all rights, save for those expressly granted hereunder, shall remain with The Qt Company and its licensors. In addition, no licenses or immunities are granted to the combination of the Licensed Software with any other software or hardware not delivered by The Qt Company under this Agreement.

14.10. Attorney Fees
The prevailing Party in any action to enforce this Agreement shall be entitled to recover its attorney's fees and costs in connection with such action.

14.11. Privacy
Licensee acknowledges and agrees that for the purpose of this Agreement, The Qt Company may collect, use, transfer and disclose personal data pertaining to Designated Users as well as any other employees and directors of the Licensee and its Contractors relevant for carrying out the intent of this Agreement. Such personal data may be collected from the Licensee or directly from the relevant individuals. The Parties acknowledge that with regard to such personal data processed hereunder, The Qt Company shall be regarded as the Data Controller under the applicable Data Protection Legislation. The Qt Company shall process any such personal data in accordance with its privacy policies.
and practices, which will comply with all applicable requirements of the Data Protection Legislation.

14.12. Severability
If any provision of this Agreement shall be adjudged by any court of competent jurisdiction to be unenforceable or invalid, that provision shall be limited or eliminated to the minimum extent necessary so that this Agreement shall otherwise remain in full force and effect and enforceable.

APPENDICES
The Agreement includes Appendix 1, and possibly one or more of the appendices 3-5, depending on the product(s) purchased by the Licensee, what is stated in the quote or invoice, and/or what is stated in the Licensee's License Certificate.

APPENDIX 1
The modules and/or tools that are included in the respective product - Qt for Application Development (QtAD), Qt for Device Creation (QtDC), Qt for MCUs (QtMCU), Qt 3D Studio (Qt3DS) and Qt Design Studio (QtDS) - are marked with 'X' in the below table.

Parts of the product that are permitted for distribution in object-code form only ("Redistributables") are marked with 'R' in the below table.

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**Open Source Used In APIC-SE-BATMAN 2.1.1d 35338**
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| Plugin for   | | | | | |
| Qt           | X | X | | | |
| Application  | | | | | |
| Manager      | | | | | |

| Qt           | | | | | |
| Automotive   | | | | | |
| Suite        | X | | | | |
| Deployment   | | | | | |
| Server       | | | | | |

| Qt Design    | X | | | | |
| Studio       | | | | | |

| Qt 3D Studio | X | | | | |
| GammaRay     | X | | X | | |

| Platform     | | | | | |
| adaptations  | | | | | |
| for          | | | | X | |
| specified    | | | | | |
| Deployment   | | | | | |
| Platforms    | | | | | |

| Qt for       | | | | | |
| Device       | X | | | | |
| Creation     | | | | | |

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The provisions of this Appendix 4 are applicable for Start-up Companies and for
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"Term" shall mean a period of twelve (12) months or any such other period as may be agreed between the Parties.

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/*---

esid: sec-assignment-operators-static-semantics-early-errors
description: Minimal test
---*/
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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):

```bash
npm install spdx-license-ids
```

## Node.js 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
```

```javascript
### 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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Included here to compliment the Pthreads-win32 license header in wtf/ThreadingWin.cpp file. WebKit is using derived sources of ThreadCondition code from Pthreads-win32.

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Bug fix.
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(with Louis Thomas) re-implemented and improved
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enhancements to mutexes;
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suggested a robust implementation of pthread_once
similar to that implemented by V.Kliathcko;
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bug fixes.
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re-implemented pthread_once (version 2)
(pthread_once cancellation added by rpj).
Vladimir Kliatchkovladimir at kliatchko dot com
reimplemented pthread_once with the same form
as described by A.Terekhov (later version 2);
implementation of MCS (Mellor-Crummey/Scott) locks.
A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.
All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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Version   : 6.1.3a
Date      : 22 January 2014
Website   : http://www.angusj.com
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The code in this library is an extension of Bala Vatti's clipping algorithm: "A generic solution to polygon clipping"
http://portal.acm.org/citation.cfm?id=129906

Computer graphics and geometric modeling: implementation and algorithms
By Max K. Agoston
Springer; 1 edition (January 4, 2005)
http://books.google.com/books?q=vatti+clipping+agoston
See also:
"Polygon Offsetting by Computing Winding Numbers"
Paper no. DETC2005-85513 pp. 565-575
ASME 2005 International Design Engineering Technical Conferences
and Computers and Information in Engineering Conference (IDETC/CIE2005)
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C++ port by Konstantin Kfer <mail@kkaefer.com>, 2014.

https://github.com/deanm/css-color-parser-js
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node-http-proxy

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  * Small patch to handle trailing slashes in --proto_path flag.
Johan Euphrosine <proppy@aminche.com>
  * Small patch to fix Python CallMethod()o.
Ulrich Kunitz <kune@deine-taler.de>
  * Small optimizations to Python serialization.
Leandro Lucarella <llucax@gmail.com>
  * VI syntax highlighting tweaks.
  * Fix compiler to not make output executable.
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  * Heuristic detection of sub-messages when printing unknown fields in
text format.
Brian Atkinson <nairb774@gmail.com>
  * Added @Override annotation to generated Java code where appropriate.
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  Alek Storm <alek.storm@gmail.com>
  * Slicing support for repeated scalar fields for the Python API.

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  * MS Visual Studio error format option.
  * Detect unordered_map in stl_hash.m4.

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  * Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
  * Added generation of field number constants.

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  * Fixed initialization ordering problem in logging code.
  Will Pierce <willp@nuclei.com>
  * Small patch improving performance of in Python serialization.
  Alexandre Vassalotti <alexandre@peadrop.com>
  * Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

Scott Stafford <scott.stafford@gmail.com>
  * Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.
  Alexander Melnikov <alm@sibmail.ru>
  * HPUX support.

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  * Detect whether zlib is new enough in configure script.
  * Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>
  * Optimize Java serialization code when writing a small message to a stream.
  * Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
  * Clean up some Java warnings.
  * Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>
  * Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>
  * Fixed m4/acx_pthread.m4 problem for some Linux distributions.

William Orr <will@worrbase.com>
  * Fixed detection of sched_yield on Solaris.
  * Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>
  * Fixed minor IBM xIC compiler build issues
  * Added atomicops for AIX (POWER)

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 * *
 * * From: Wilco Dijkstra <Wilco.Dijkstra@ntlworld.com>
 * * Date: Fri, Jun 24, 2011 at 3:20 AM
 * * Subject: Re: sqrt routine
 * * To: Kevin Ma <kma@google.com>
 * * Hi Kevin,
 * * Thanks for asking. Those routines are public domain (originally posted to
 * * comp.sys.arm a long time ago), so you can use them freely for any purpose.
 * * Cheers,
 * * Wilco
 * *
 * ----- Original Message -----*
 * * From: "Kevin Ma" <kma@google.com>
 * * To: <Wilco.Dijkstra@ntlworld.com>
 * * Sent: Thursday, June 23, 2011 11:44 PM
 * * Subject: Fwd: sqrt routine
 * * Hi Wilco,
 * * I saw your sqrt routine from several web sites, including
 * * http://www.finesse.demon.co.uk/steven/sqrt.html.
 * * Just wonder if there's any copyright information with your Successive
 * * approximation routines, or if I can freely use it for any purpose.
 * * Thanks.
 * * Kevin
 * */

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'zlib' general purpose compression library

version 1.2.3, July 18th, 2005

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If you want to write an option parser, and have it be good, there are two ways to do it. The Right Way, and the Wrong Way.

The Wrong Way is to sit down and write an option parser. We've all done that.

The Right Way is to write some complex configurable program with so many options that you hit the limit of your frustration just trying to manage them all, and defer it with duct-tape solutions until you see exactly to the core of the problem, and finally snap and write an awesome option parser.
If you want to write an option parser, don't write an option parser. Write a package manager, or a source control system, or a service restarter, or an operating system. You probably won't end up with a good one of those, but if you don't give up, and you are relentless and diligent enough in your procrastination, you may just end up with a very nice option parser.

## USAGE

```javascript
// my-program.js
var nopt = require("nopt")
, Stream = require("stream").Stream
, path = require("path")
, knownOpts = { "foo" : [String, null]
, "bar" : [Stream, Number]
, "baz" : path
, "bloom" : [ "big", "medium", "small" ]
, "flag" : Boolean
, "pick" : Boolean
, "many1" : [String, Array]
, "many2" : [path, Array]
}
, shortHands = { "foofoo" : ["--foo", "Mr. Foo"]
, "b7" : ["--bar", "7"]
, "m" : ["--bloom", "medium"]
, "p" : ["--pick"]
, "f" : ["--flag"]
}
// everything is optional.
// knownOpts and shorthands default to {}
// arg list defaults to process.argv
// slice defaults to 2
, parsed = nopt(knownOpts, shortHands, process.argv, 2)
console.log(parsed)
```

This would give you support for any of the following:

```console
$ node my-program.js --foo "blerp" --no-flag
{ "foo" : "blerp", "flag" : false }

$ node my-program.js ---bar 7 --foo "Mr. Hand" --flag
{ bar: 7, foo: "Mr. Hand", flag: true }

$ node my-program.js --foo "blerp" -f -----p
$ node my-program.js -fp --foofoo
{ foo: "Mr. Foo", flag: true, pick: true }

$ node my-program.js --foofoo -- -fp # -- stops the flag parsing.
{ foo: "Mr. Foo", argv: { remain: ["-fp"] } }

$ node my-program.js --blatzk -fp # unknown opts are ok.
{ blatzk: true, flag: true, pick: true }

$ node my-program.js --blatzk=1000 -fp # but you need to use = if they have a value
{ blatzk: 1000, flag: true, pick: true }

$ node my-program.js --no-blatzk -fp # unless they start with "no-"
{ blatzk: false, flag: true, pick: true }

$ node my-program.js --baz b/a/z # known paths are resolved.
{ baz: "/Users/isaacs/b/a/z" }

# if Array is one of the types, then it can take many
# values, and will always be an array. The other types provided
# specify what types are allowed in the list.

$ node my-program.js --many1 5 --many1 null --many1 foo
{ many1: ["5", "null", "foo"] }

$ node my-program.js --many2 foo --many2 bar
{ many2: ["/path/to/foo", "path/to/bar"] }

Read the tests at the bottom of `lib/nopt.js` for more examples of what this puppy can do.

### Types

The following types are supported, and defined on `nopt.typeDefs`

* String: A normal string. No parsing is done.
* path: A file system path. Gets resolved against cwd if not absolute.
* url: A url. If it doesn't parse, it isn't accepted.
* Number: Must be numeric.
* Date: Must parse as a date. If it does, and `Date` is one of the options, then it will return a Date object, not a string.
* Boolean: Must be either `true` or `false`. If an option is a boolean, then it does not need a value, and its presence will imply `true` as the value. To negate boolean flags, do `--no-whatever` or `--whatever false`
* NaN: Means that the option is strictly not allowed. Any value will fail.
* Stream: An object matching the "Stream" class in node. Valuable for use when validating programmatically. (npm uses this to let you supply any WriteStream on the `outfd` and `logfd` config options.)
* Array: If `Array` is specified as one of the types, then the value will be parsed as a list of options. This means that multiple values can be specified, and that the value will always be an array.

If a type is an array of values not on this list, then those are considered valid values. For instance, in the example above, the `-b Bloo` option can only be one of `"big"`, `"medium"`, or `"small"`, and any other value will be rejected.

When parsing unknown fields, `"true"`, `"false"`, and `"null"` will be interpreted as their JavaScript equivalents.

You can also mix types and values, or multiple types, in a list. For instance `{ blah: [Number, null] }` would allow a value to be set to either a Number or null. When types are ordered, this implies a preference, and the first type that can be used to properly interpret the value will be used.

To define a new type, add it to `nopt.typeDefs`. Each item in that hash is an object with a `type` member and a `validate` method. The `type` member is an object that matches what goes in the type list. The `validate` method is a function that gets called with `validate(data, key, val)`. Validate methods should assign `data[key]` to the valid value of `val` if it can be handled properly, or return boolean `false` if it cannot.

You can also call `nopt.clean(data, types, typeDefs)` to clean up a config object and remove its invalid properties.

## Error Handling

By default, nopt outputs a warning to standard error when invalid values for known options are found. You can change this behavior by assigning a method to `nopt.invalidHandler`. This method will be called with the offending `nopt.invalidHandler(key, val, types)`.

If no `nopt.invalidHandler` is assigned, then it will console.error its whining. If it is assigned to boolean `false` then the warning is suppressed.

## Abbreviations

Yes, they are supported. If you define options like this:
```javascript
{ "foolhardyelephants" : Boolean , "pileofmonkeys" : Boolean }
```n
Then this will work:

```bash
node program.js --foolhardyelephants --pileofmonkeys
```

## Shorthands

Shorthands are a hash of shorter option names to a snippet of args that they expand to.

If multiple one-character shorthands are all combined, and the combination does not unambiguously match any other option or shorthand, then they will be broken up into their constituent parts. For example:

```json
{ "s" : ["--loglevel", "silent"] , "g" : "--global" , "f" : "--force" , "p" : "--parseable" , "l" : "--long" }
```

```bash
npm ls -sgflp
```

# just like doing this:

```bash
npm ls --loglevel silent --global --force --long --parseable
```

## The Rest of the args

The config object returned by nopt is given a special member called `argv`, which is an object with the following fields:

* `remain`: The remaining args after all the parsing has occurred.
* `original`: The args as they originally appeared.
* `cooked`: The args after flags and shorthands are expanded.

## Slicing
Node programs are called with more or less the exact argv as it appears in C land, after the v8 and node-specific options have been plucked off. As such, `argv[0]` is always `node` and `argv[1]` is always the JavaScript program being run.

That's usually not very useful to you. So they're sliced off by default. If you want them, then you can pass in `0` as the last argument, or any other number that you'd like to slice off the start of the list.

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Credits: is based on Firefox's nsSMILKeySpline.cpp

Usage:
var spline = BezierEasing([ 0.25, 0.1, 0.25, 1.0 ])
spline.get(x) => returns the easing value | x must be in [0, 1] range
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$($SHELL) -ec "$($GEN_DEPS.c) $< \\
| sed "s/A[$*]/A$*: /g" > $@; \\
[ -s $@ ] || rm -f $@"

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$($SHELL) -ec "$($GEN_DEPS.cc) $< \\
| sed "s/A[$*]/A$*: /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).$(SO).$(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 =

## End BSD-specific setup
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#!/usr/bin/env node
var nopt = require("./lib/nopt")
path = require("path")

shorthands = { s: [ "--str", "astring" ]
  , b: [ "--bool" ]
  , nb: [ "--no-bool" ]
  , tft: [ "--bool-list", "--no-bool-list", "--bool-list", "true" ]
  , "?": ["--help"]
  , h: ["--help"]
  , H: ["--help"]
  , n: [ "--num", "125" ]
  , c: ["--config"]
  , l: ["--length"]
  , f: ["--file"]
}

parsed = nopt( types
  , shorthands
  , process.argv
  , 2 )

console.log("parsed", parsed)

if (parsed.help) {
  console.log(""
  console.log("nopt cli tester")
  console.log(""
  console.log("types")
  console.log(Object.keys(types).map(function M (t) {
    var type = types[t]
    if (Array.isArray(type)) {
      return [t, type.map(function (type) { return type.name })]
    } return [t, type && type.name]
  )).reduce(function s (s, t) {
    s[t] = i[1]
    return s
  }, {}))
}

var types = {
  num: Number
  , bool: Boolean
  , help: Boolean
  , list: Array
  , "num-list": [Number, Array]
  , "str-list": [String, Array]
  , "bool-list": [Boolean, Array]
  , str: String
  , clear: Boolean
  , config: Boolean
  , length: Number
  , file: path
}

parsed = nopt( types
  , shorthands
  , process.argv
  , 2 )

console.log("parsed", parsed)

if (parsed.help) {
  console.log(""
  console.log("nopt cli tester")
  console.log(""
  console.log("types")
  console.log(Object.keys(types).map(function M (t) {
    var type = types[t]
    if (Array.isArray(type)) {
      return [t, type.map(function (type) { return type.name })]
    } return [t, type && type.name]
  )).reduce(function s (s, t) {
    s[t] = i[1]
    return s
  }, {}))
}
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C++ Big Integer Library
(see ChangeLog for version)

http://mattmccutchen.net/bigint/

Written and maintained by Matt McCutchen <matt@mattmccutchen.net>

You can use this library in a C++ program to do arithmetic on integers of size
limited only by your computer's memory. The library provides BigUnsigned and
BigInteger classes that represent nonnegative integers and signed integers,
respectively. Most of the C++ arithmetic operators are overloaded for these
classes, so big-integer calculations are as easy as:

#include "BigIntegerLibrary.hh"

BigInteger a = 65536;
cout << (a * a * a * a * a * a * a * a);

(prints 340282366920938463463374607431768211456)
The code in `sample.cc' demonstrates the most important features of the library. To get started quickly, read the code and explanations in that file and run it. If you want more detail or a feature not shown in `sample.cc', consult the actual header and source files, which are thoroughly commented.

This library emphasizes ease of use and clarity of implementation over speed; some users will prefer GMP (http://swox.com/gmp/), which is faster. The code is intended to be reasonably portable across computers and modern C++ compilers; in particular, it uses whatever word size the computer provides (32-bit, 64-bit, or otherwise).

Compiling programs that use the library
---------------------------------------
The library consists of a folder full of C++ header files (`.hh') and source files (`.cc'). Your own programs should `#include' the necessary header files and link with the source files. A makefile that builds the sample program (`sample.cc') is included; you can adapt it to replace the sample with your own program.

Alternatively, you can use your own build system or IDE. In that case, you must put the library header files where the compiler will find them and arrange to have your program linked with the library source files; otherwise, you will get errors about missing header files or "undefined references". To learn how to do this, consult the documentation for the build system or IDE; don't bother asking me. Adding all the library files to your project will work in many IDEs but may not be the most desirable approach.

Resources
---------
The library's Web site (above) provides links to released versions, the current development version, and a mailing list for release announcements, questions, bug reports, and other discussion of the library. I would be delighted to hear from you if you like this library and/or find a good use for it.

Bugs and enhancements
----------------------
The library has been tested by me and others but is by no means bug-free. If you find a bug, please report it, whether it comes in the form of compiling trouble, a mathematically inaccurate result, or a memory-management blooper (since I use Java, these are altogether too common in my C++). I generally fix all reported bugs. You are also welcome to request enhancements, but I am unlikely to do substantial amounts of work on enhancements at this point.

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// sigslot.h: Signal/Slot classes
//
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Version 3, 29 June 2007

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language: node_js
node_js:
- '0.12'
- '4'
- '6'
- '7'
before_install:
- npm install -g npm@latest

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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
```
```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"'
    ],
    validForOldPackages: false,
    validForNewPackages: false,
}
```

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`:

```javascript
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
);
```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```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'
    }  
);
```

If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'LICENSE.txt'
};
```
Open Source Used In APIC-SE-BATMAN 2.1.1d 35837

validForOldPackages: true,
unlicensed: true

assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```
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Version 2.0 - August 6, 2003

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1.2689 jetty-util-ajax 9.4.42.v20210604

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* org.eclipse.jetty.orbit:javax.security.auth.message

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
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org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
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org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.2692 go-sockaddr v1.0.2

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1.2694 x-time-rate v0.0.0-20201208040808-7e3f01d25324

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1.2695 tar 1.27.1-2+deb8u1

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@item
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@item
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional; if the application does not supply it, the square root function must still compute square roots.)

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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.

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.

@item
As an exception to the Sections above, you may also combine or
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directing the user to the copy of this License. Also, you must do one
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@enumerate a
@item
Accompany the work with the complete corresponding
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.)

@item
Use a suitable shared library mechanism for linking with the Library. A
suitable mechanism is one that (1) uses at run time a copy of the
library already present on the user's computer system, rather than
copying library functions into the executable, and (2) will operate
properly with a modified version of the library, if the user installs
one, as long as the modified version is interface-compatible with the
version that the work was made with.

@item
Accompany the work with a written offer, valid for at
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specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

@item
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.

@item
Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
@end enumerate

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reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
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which the executable runs, unless that component itself accompanies the
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@enumerate 0
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control compilation and installation of the executable. However, as a
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operating system on which the executable runs, unless that component
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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.)
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```

Also add information on how to contact you by electronic and paper mail.
If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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@end smallexample

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@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

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Version 2.1, February 1999

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ppport.h -- Perl/Pollution/Portability Version 3.21

Automatically created by Devel::PPPort running under perl 5.019005.

Do NOT edit this file directly! -- Edit PPPort.pm.PL and the
includes in parts/inc/ instead.

Use 'perldoc pppport.h' to view the documentation below.

--------------------------------------------

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.21

=head1 SYNOPSIS

perl pppport.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
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.
Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C|--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use
perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=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>es in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

    #define NEED_function
    #define NEED_variable

For a global function or variable (used in multiple source files), use:

    #define NEED_function_GLOBAL
    #define NEED_variable_GLOBAL

Note that you mustn't have more than one global request for the 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_parserGLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signalsGLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pvGLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_binGLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hexGLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C\texttt{DPPP_NAMESPACE} macro. Just C\texttt{#define} the macro before including C\texttt{ppport.h}:

\begin{verbatim}
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
\end{verbatim}

The default namespace is C\texttt{DPPP_}.

=back

The good thing is that most of the above can be checked by running F\texttt{ppport.h} on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F\texttt{ppport.h} is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F\texttt{ppport.h} can be run as a Perl script to check your source code. Simply say:
perl ppport.h

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

   perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions for changes, use:

   perl ppport.h --nochanges

You can specify a different C<diff> program or options, using the C<--diff> option:

   perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

   perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function, use:

   perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use

   perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

   perl ppport.h --api-info=/\/

to display information for all known API elements.

=head1 BUGS
If this version of \texttt{ppport.h} is causing failure during the compilation of this module, please check if newer versions of either this module or \texttt{Devel::PPPort} are available on CPAN before sending a bug report.

If \texttt{ppport.h} was generated using the latest version of \texttt{Devel::PPPort} and is causing failure of this module, please file a bug report using the CPAN Request Tracker at \url{http://rt.cpan.org/}.

Please include the following information:

\begin{itemize}
\item The complete output from running \texttt{perl -V}
\item This file.
\item The name and version of the module you were trying to build.
\item A full log of the build that failed.
\item Any other information that you think could be relevant.
\end{itemize}

For the latest version of this code, please get the \texttt{Devel::PPPort} module from CPAN.

\section*{COPYRIGHT}

Version 3.x, Copyright (c) 2004-2013, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.
use strict;

# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.21;

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\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(
    AvFILLp|5.004050||p
    AvFILL||
    BhkDISABLE|5.019003|
    BhkENABLE|5.019003|
    BhkENTRY_set|5.019003|
    BhkENTRY||
    BhkFLAGS||
    CALL_BLOCK_HOOKS||
    CLASS||n
    CPERLscope|5.005000||p
    CX_CURPAD_SAVE||
    CX_CURPAD_SV||
    CopFILEAV|5.006000||p
    CopFILEGV_set|5.006000||p
    CopFILEGV|5.006000||p
    CopFILE_set|5.006000||p
    CopFILESV|5.006000||p
    CopFILE_set|5.006000||p

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PERL_UINT_MAX|5.004000||p
PERL_UINT_MIN|5.004000||p
PERL ULONG_MAX|5.004000||p
PERL ULONG_MIN|5.004000||p
PERL UNUSED_ARG|5.009003||p
PERL UNUSED CONTEXT|5.009004||p
PERL UNUSED DECL|5.007002||p
PERL UNUSED VAR|5.007002||p
PERL UQUAD_MAX|5.004000||p
PERL UQUAD_MIN|5.004000||p
PERL_USE_GCC_BRACE_GROUPS|5.009004||p
PERL USHORT_MAX|5.004000||p
PERL USHORT_MIN|5.004000||p
PERL VERSION|5.006000||p
PL_DBsignal|5.005000||p
PL_DBsingle|||pn
PL_DBsub|||pn
PL_DBtrace|||pn
PL_Sv|5.005000||p
PL_bufend|5.019002||p
PL_bufptr|5.019002||p
PL_check|5.006000|
PL_compiling|5.004050||p
PL_comppad_name|5.017004|
PL_comppad|5.008001|
PL_copline|5.019002||p
PL_curcop|5.004050||p
PL_curpad|5.005000|
PL_curstash|5.004050||p
PL_diehook|5.004050||p
PL_dirty|5.004050||p
PL_dowarn|||pn
PL_erro|5.004050||p
PL_error_count|5.019002||p
PL_expect|5.019002||p
PL_hexdigit|5.005000||p
PL_hints|5.005000||p
PL_in_my_stash|5.019002||p
PL_in_my|5.019002||p
PL_keyword_plugin|5.011002|
PL_last_in_gv|||n
PL_laststatval|5.005000||p
PL_lex_state|5.019002||p
PL_lex_stuff|5.019002||p
PL_linestr|5.019002||p
PL_modglobal|5.005000|n
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- PL_na[5.004050]|pn
- PL_no_modify[5.006000]|p
- PL_ofsgv||n
- PL_opfreehook[5.011000]|n
- PL_parser[5.009005, 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[5.019002]|p
- PL_rsfp[5.019002]|p
- PL_rs||n
- PL_signals[5.008001]|p
- PL_stack_base[5.004050]|p
- PL_stack_sp[5.004050]|p
- PL_statcache[5.005000]|p
- PL_stdingv[5.004050]|p
- PL_sv_arenaroot[5.004050]|p
- PL_sv_no[5.004050]|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[5.019002]|p
- POP_MULTICALL[5.019003]|
- POp]|n
- POP]|n
- POP]|n
- POPpytex[5.007001]|n
- POPpx[5.005030]|n
- POP]|n
- POP]|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[5.019003]|
- PUSH]|p
- PUSHmortal[5.009002]|p
- PUSHa||
- PUSHp||
- PUSHs||
- PUSHu[5.004000]|p
- PUTBACK||
SvREFCNT_inc||p
SvREFCNT||
SvROK_off||
SvROK_on||
SvROK||
SvRV_set|5.009003||p
SvRV||
SvRXOK|5.009005|
SvRX|5.009005|
SvSETMAGIC|||
SvSHARE|5.007003|
SvSTASH_set|5.009003||p
SvSTASH|||
SvSetMagicSV_nosteal|5.004000|
SvSetMagicSV|5.004000|
SvSetSV|5.004000|
SvSetSV||
SvTAINTED_off|5.004000|
SvTAINTED_on|5.004000|
SvTAINTED|5.004000|
SvTAINT|||
SvTHINKFIRST|||
SvTRUE_nomg|5.013006|
SvTRUE|||
SvTYPE|||
SvUNLOCK|5.007003|
SvUOK|5.007001|5.006000||p
SvUPGRADE|||
SvUTF8_off|5.006000|
SvUTF8_on|5.006000|
SvUTF8|5.006000|
SvUVXX|5.004000||p
SvUVX|5.004000||p
SvUV_nomg|5.009001||p
SvUV_set|5.009003||p
SvUVX|5.004000||p
SvUV|5.004000||p
SvVOK|5.008001|
SvVSTRING_mg|5.009004||p
THIS||
UNDERBAR|5.009002||p
UTF8_MAXBYTES|5.009002||p
UVSIZE|5.006000||p
UVTYPE|5.006000||p
UVX|5.007001||p
UVof|5.006000||p
UVuf|5.006000||p
WARN_ALL
WARN_AMBIGUOUS
WARN_ASSERTIONS
WARN_BAREWORD
WARN_CLOSED
WARN_CLOSURE
WARN_DEBUGGING
WARN_DEPRECATED
WARN_DIGIT
WARN_EXEC
WARN_EXITING
WARN_GLOB
WARN_INPLACE
WARN_INTERNAL
WARN_IO
WARN_LAYER
WARN_MALLOC
WARN_MISC
WARN_NEWLINE
WARN_NUMERIC
WARN_ONCE
WARN_OVERFLOW
WARN_PACK
WARN_PARENTHESIS
WARN_PIPE
WARN_PORTABLE
WARN_PRECEDENCE
WARN_PRINTF
WARN_PROTOTYPE
WARN_QW
WARN_RECURSION
WARN_REDEFINE
WARN_REGEXP
WARN_RESERVED
WARN_SEMICOLON
WARN_SEVERE
WARN_SIGNAL
WARN_SUBSTR
WARN_SYNTAX
WARN_TAINT
WARN_THREADS
WARN_UNINITIALIZED
WARN_UNOPENED
WARN_UNPACK
WARN_UNTIE
WARN_UTF8
WARN_VOID
WIDEST_UTYPE|5.015004||p
XCPT_CATCH|5.009002||p
XCPT_RETHROW|5.009002|5.007001||p
XCPT_TRY_END|5.009002|5.004000||p
XCPT_TRY_START|5.009002|5.004000||p
XPUSHi||
XPUSHmortal|5.009002||p
XPUSHn||
XPUSHp||
XPUSHs||
XPUSHu|5.004000||p
XSPROTO|5.010000||p
XSRETURN_EMPTY||
XSRETURN_IV||
XSRETURN_NO||
XSRETURN_NV||
XSRETURN_PV||
XSRETURN_UNDEF||
XSRETURN_UV|5.008001||p
XSRETURN_YES||
XSRETURN|||p
XST_mIV||
XST_mNO||
XST_mNV||
XST_mPV||
XST_mUNDEF||
XST_mUV|5.008001||p
XST_mYES||
XS_APIVERSION_BOOTCHECK|5.013004|
XS_EXTERNAL|5.019003|
XS_INTERNAL|5.019003|
XS_VERSION_BOOTCHECK||
XS_VERSION||
XSprePUSH|5.006000||p
XS||
XopDISABLE|5.019003|
XopENABLE|5.019003|
XopENTRY_set|5.019003|
XopENTRY|5.019003|
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_swash_invlist||
_invlist_array_init||

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boolSV[5.004000]|p
boot_core_PerlIO|||
boot_core_UNIVERSAL|||
boot_core_mro|||
bytes_cmp_utf8[5.013007]
bytes_from_utf8[5.007001]
bytes_to_utf8[n]
bytes_to_uni[5.006001]
call_argv[5.006000]|p
call_atexit[5.006000]
call_list[5.004000]
call_method[5.006000]|p
call_pv[5.006000]|p
call_sv[5.006000]|p
caller_cx[5.013005]
calloc[5.007002]
candol||
cast_i32[5.006000]
cast_iv[5.006000]
cast_ulong[5.006000]
cast_uv[5.006000]
check_locale_boundary_crossing|||
check_type_and_open|||
check_uni|||
check_utf8_print|||
checkcomma|||
ckWARN[5.006000]|p
ck_entersub_args_core|||
ck_entersub_args_list[5.013006]
ck_entersub_args_proto_or_list[5.013006]
ck_entersub_args_proto[5.013006]
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ck_warner[5.011001]|v
ckwarn_common|||
ckwarn_d[5.009003]
ckwarn[5.009003]
cl_and||n
cl_anything||n
cl_init||n
cl_isanything||n
cl_or||n
clear_placeholders|||
clone_params_del||n
clone_params_new||n
closest_cop|||
compute_EXACTish|||
convert|||
cop_fetch_label[5.015001]
deprecated_commaless_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!

do_chomp!

do_close!

do_delete_local!

do_dump_pad!

do_eof!

do_exec3!

do_execfree!

do_exec!

do_gv_dump!

do_gvgv_dump!

do_hv_dump!

do_ipcctl!

do_ipcget!

do_join!

do_magic_dump!

do_msgrcv!

do_msgsnd!

doncmp!

do_oddball!

do_op_dump!

do_op_xmldump!

do_open9!

do_opena!

do_open!

do_pmop_dump!

do_pmop_xmldump!

do_print!

do_readline!

do_seek!

do_semop!

do_shmio!

do_smartmatch!

do_spawn_nowait!

do_spawn!
do_sprintf||
do_sv_dump[5.006000]
do_sysseek||
do_tell||
do_trans_complex_utf8||
do_trans_complex||
do_trans_count_utf8||
do_trans_count||
do_trans_simple_utf8||
do_trans_simple||
do_trans||
do_vecget||
do_vecset||
do_vop||
docatch||
doeval||
dofile||
dofindlabel||
doform||
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dooneline||
dopen_pm||
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dopoptoeval||
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dopoptoloop||
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dopoptowhen||
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dounwind||
dowantarray||
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dump_eval[5.006000]
dump_exec_pos||
dump_fds||
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||
dump_vindent||5.006000
dumpuntil||
dup_attrlist||
emulate_cop_1o||
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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_hash_subscript||
find_in_my_stash||
find_lexical_cv||
find_runcv_where||
find_runcv|5.008001|
find_rundefsv2||
find_rundefsvoffset|5.009002|
find_rundefsv|5.013002|
find_script||
find_uninit_var||
first_symbol||n
foldEQ_latin1|5.013008|n
foldEQ_locale|5.013002|n
foldEQ_utf8_flags|5.013010|
foldEQ_utf8|5.013002|
foldEQ|5.013002|n
fold_constants||
forbid_setid||
force_ident_maybe_lex||
force_ident||
force_list||
force_next||
force_strict_version||
force_version||
force_word||
forget_pmop||
form_nocontext||vn
hv_placeholders_get||5.009003|
hv_placeholders_p|||
hv_placeholder_set||5.009003|
hv_rand_set||5.017011|
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hv_store|||
hv.Undef_FLAGS|||
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ibcmp_locale||5.004000|
ibcmp_utf8||5.007003|
ibcmp|||
incline|||
incpush_if_exists|||
incpush_use_sep|||
incpush|||
ingroup|||
init_argv_symbols|||
init_constants|||
init_dbargs|||
init_debugger|||
init_global_struct|||
init_i18n10n||5.006000|
init_i18n14n||5.006000|
init_ids|||
init_interp|||
init_main_stash|||
init_perlLib|||
init_postdump_symbols|||
init_preadump_symbols|||
inlist_combine|||
inlist_highest|||
inlist_is_iterating|||
inlist_iterfinish|||
magic_setvec
magic_set
magic_sizepack
magic_wipepack
make_matcher
make_trie_failtable
make_trie
malloc_good_size
malloced_size
malloc
markstack_grow
matcher_matches_sv
mayberelocate
measure_struct
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memEQ
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memNE
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mem_log_common
mess_alloc
mess_nocontext
mess_sv
mess
method_common
mfree
mg_clear
mg_copy
mg_dup
mg_find_mglob
mg_findext
mg_find
mg_free_type
mg_free
mg_get
mg_length
mg_localize
mg_magical
mg_set
mg_size
mini_mktime
minus_v
missingterm
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pm_description
pmop_dump
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pmruntime
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populate_isa
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pregexec
pregfree2
pregfree
prepend_madprops
prescan_version
printf_nocontext
process_special_blocks
ptr_hash
ptr_table_clear
ptr_table_fetch
ptr_table_find
ptr_table_free
ptr_table_new
ptr_table_split
ptr_table_store
push_scope
put_byte
put_latin1_charclass_innards
pv_display
pv_escape
pv_pretty
pv_uni_display
qerror
qsortsvu
re_compile
re_croak2
re_dup_guts
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re_intuit_string
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readpipe_override
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regdupe_internal[]
regexec_flags[5.005000]
regfree_internal[5.009005]
reghop3[]n
reghop4[]n
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reginclass[]
reginitcolors[5.006000]
reginsert[]
regmatch[]
regnext[5.005000]
regpatws[]n
regpiece[]
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regrepeat[]
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report_evil_fh[]
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require_pv[5.006000]
require_tie_mod[]
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minstr[]n
rpeep[]
rsignal_restore[]
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run_body[]
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runops_debug[5.005000]
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rv2cv_op_cv[5.013006]
rvpv_dup[]
rxres_free[]
rxres_restore[]
rxres_save[]
safesyscalloc[5.006000]n
safesysfree[5.006000]n
safesysmalloc|5.006000|
safesysrealloc|5.006000|
same_dirent|
save_116|5.004000|
save_132|
save_18|5.006000|
save_adelete|5.011000|
save_aelem_flags|5.011000|
save_aelem|5.004050|
save_alloc|5.006000|
save_aptr|
save_ary|
save_bool|5.008001|
save_clearsv|
save_delete|
save_destructor_x|5.006000|
save_destructor|5.006000|
save_freeop|
save_freepv|
save_freesv|
save_generic_pvref|5.006001|
save_generic_svref|5.005030|
save_gp|5.004000|
save_hash|
save_hdelete|5.011000|
save_heck_flags||n
save_helem_flags|5.011000|
save_helem|5.004050|
save_hints|5.010001|
save_hptr|
save_int|
save_item|
save_iv|5.005000|
save_lines|
save_list|
save_long|
save_magic_flags|
save_mortalizesv|5.007001|
save_nogv|
save_op|5.005000|
save_padsv_and_mortalize|5.010001|
save_pptr|
save_pushi32ptr|5.010001|
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save_pushptrptr|5.010001|
save_pushptr|5.010001|
save_re_context|5.006000|
save_scalar_at|
save_scalar
save_set_svflags
save_shared_pvref
save_spref
save_svref
save_vptr
savevpv
savepvn
savepv
savesharedpvn
savesharedpvs
savesharedpv
savestack_grow_cnt
savestack_grow
savesvpv
sawparens
scalar_mod_type
scalarboolean
scalarkids
scalarseq
scalarvoid
scalar
scan_bin
scan_commit
scan_const
scan_formline
scan_heredoc
scan_hex
scan_ident
scan_inputsymbol
scan_num
scan_oct
scan_pat
scan_str
scan_subst
scan_trans
scan_version
scan_vstring
scan_word
screaminstr
search_const
seed
sequence_num
set_context
set_numeric_local
set_numeric_radix
set_numeric_standard
sv_2nv_flags|5.013001|
sv_2pv_flags|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_2uv_flags|5.009001|
sv_2uv|5.004000|p
sv_add_arena||
sv_add_backref||
sv_backoff||
sv_bless||
sv_cat_decode|5.008001|
sv_catpv_flags|5.013006|
sv_catpv_mg|5.004050|p
sv_catpv_nomg|5.013006|
sv_catpvf_mg_nocontext||pvn
sv_catpvf_mg|5.006000|5.004000|pv
sv_catpvf_nocontext||vn
sv_catpvf|5.004000|v
sv_catpvn_flags|5.007002|
sv_catpvn_mg|5.004050|p
sv_catpvn_nomg|5.007002|p
sv_catpvn||
sv_catpvs_flags|5.013006|
sv_catpvs_mg|5.013006|
sv_catpvs_nomg|5.013006|
sv_catpvs|5.009003|p
sv_catpv||
sv_catsv_flags|5.007002|
sv_catsv_mg|5.004050|p
sv_catsv_nomg|5.007002|p
sv_catsv||
sv_catxmlpvn||
sv_catxmlpv||
sv_catxmlsv||
sv_chop||
sv_clean_all||
sv_clean_objs||
sv_clear||
sv_cmp_flags|5.013006|
sv_cmp_locale_flags|5.013006|
sv_cmp_locale|5.004000|
sv_cmp||
sv_collxfrm_flags|5.013006|
sv_collxfrm||
sv_copypv_flags\[5.017002\]
sv_copypv_nomg\[5.017002\]
sv_copypv\[
sv_dec_nomg\[5.013002\]
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sv_del_backref\[
svDerivedFromPvn\[5.015004\]
svDerivedFromPv\[5.015004\]
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svDoesPvn\[5.015004\]
svDoesPv\[5.015004\]
svDoesSv\[5.015004\]
svDoes\[5.009004\]
svDump\[
svDupCommon\[
svDup_in_multiple\[
svDup_in\[
svDup\[
svEq_flags\[5.013006\]
svEq\[
svExp_grow\[
svForce_normal_flags\[5.007001\]
svForce_normal\[5.006000\]
svFree2\[
svFree_arenas\[
svFree\[
svGets\[5.004000\]
svGrow\[
svIncmp\[
svInc_nomg\[5.013002\]
svInc\[
svInsert_flags\[5.010001\]
svInsert\[
svIsa\[
svIsobject\[
svIv\[5.005000\]
svKill_backrefs\[
svLen_utf8_nomg\[
svLen_utf8\[5.006000\]
svLen\[
svMagic_portable\[5.019003\]5.004000\]p
svMagicext_mglob\[
svMagicext\[5.007003\]
sv_magic\[
svMortalcopy_flags\[

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sv_mortalcopy
sv_ncmp
sv_newmortal
sv_newref
sv_nolocking[5.007003]
sv_nosharing[5.007003]
sv_nounlocking
sv_nv[5.005000]
sv.peek[5.005000]
sv_pos_b2u_flags[5.019003]
sv_pos_b2u_midway
sv_pos_b2u[5.006000]
sv_pos_u2b_catched
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_force_flags[5.007002]
p
sv_pvn_force
sv_pvn_nomg[5.007003|5.005000]p
sv_pvn[5.005000]
sv_pvutf8n_force[5.006000]
sv_pvutf8n[5.006000]
sv_pvutf8[5.006000]
sv_pv[5.006000]
sv_recode_to_utf8[5.007003]
sv_ref
sv.reftype
sv_ref
sv_release_COW
sv_replace
sv_report_used
sv_resetpvn
sv.reset
sv_rvweaken[5.006000]
sv_sethek
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
sv_setpvf_mg[5.006000|5.004000]p
sv_setpvf_nocontext][vn
sv_setpvf[5.004000]v
sv_setpviv_mg[5.008001]
sv_setpviv|5.008001|
sv_setpvn_mg|5.004050|p
sv_setpvn|||
sv_setpvs_mg|5.013006|
sv_setpvs|5.009004|p
sv_setpv|||
sv_setref_iv|||
sv_setref_nv|||
sv_setref_pvn|||
sv_setref_pvs|5.019003|
sv_setref_pv|||
sv_setref_uv|5.007001|
sv_setsv_cow|||
sv_setsv_flags|5.007002|
sv_setsv_mg|5.004050|p
sv_setsv_nomg|5.007002|p
sv_setsv|||
sv_setuv_mg|5.004050|p
sv_setuv|5.004000|p
sv_tainted|5.004000|
sv_taint|5.004000|
sv_true|5.005000|
sv_unglob|||
sv_uni_display|5.007003|
sv_unmagicext|5.013008|
sv_unmagic|||
sv_unref_flags|5.007001|
sv_unref|||
sv_untaint|5.004000|
sv_upgrade|||
sv_usepvn_flags|5.009004|
sv_usepvn_mg|5.004050|p
sv_usepvn|||
sv_utf8_decode|5.006000|
sv_utf8_downgrade|5.006000|
sv_utf8_encode|5.006000|
sv_utf8_upgrade_flags_grow|5.011000|
sv_utf8_upgrade_flags|5.007002|
sv_utf8_upgrade_nomg|5.007002|
sv_utf8_upgrade|5.007001|
sv_uv|5.005000|p
sv_vcatpvf_mg|5.006000|5.004000|p
sv_vcatpvfn_flags|5.017002|
sv_vcatpvfn|5.004000|
sv_vcatpvf|5.006000|5.004000|p
sv_vsetpvf_mg|5.006000|5.004000|p
sv_vsetpvf|5.006000|5.004000|p
sv_vsetpvf|5.006000|5.004000|p
sv_xmlpeek
svtype
swallow_bom
swash_fetch[5.007002]
swash_init[5.006000]
swatch_get
sys_init3[5.010000]
sys_init[5.010000]
sys_intern_clear
sys_intern_dup
sys_intern_init
sys_term[5.010000]
taint_env
taint_proper
tied_method
tmpl_grow[5.006000]
toFOLD_uni[5.007003]
toFOLD_utf8[5.019001]
toFOLD[5.019001]
toLOWER_L1[5.019001]
toLOWER_LC[5.004000]
toLOWER_uni[5.007003]
toLOWER_utf8[5.015007]
toLOWER

toTITLE_uni[5.007003]
toTITLE_utf8[5.015007]
toTITLE[5.019001]
toUPPER_uni[5.007003]
toUPPER_utf8[5.015007]
toUPPER[5.004000]
to_byte_substr
to_lower_latin1
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[5.015007]
to_utf8_lower[5.015007]
to_utf8_substr
to_utf8_title[5.015007]
to_utf8_upper[5.015007]
token_free
token_getmad
tokenize_use
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
$h->{$_} .= "$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] .= $_;

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} 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+\((?:[^)]+)?)\$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} = ${$1} if m{^s*$rcce\$s+Replace:\$s+(\d+)$s+$rcce\$s*};
${replace} = ${$1} if $replace and m{^s*$#s*define\$s+\((?:[^)]+)?)\$s+(\$w+)};
${replace} = ${$1} if m{^s*$rcce\$s+Replace\$s+\$(rcce\$s*}\$s*$};
${replace} = ${$1} if m{^s*$rcce\$s+Replace \$(rcce\$s*}\$s*$}\$s+\$(w+) with \$(rcce\$s*}\$s*$};

if (m{^s*$rcce\$s+\$(w+)\$s*\$(w+)*)\$s+\$(rcce\$s*}\$s*$}) {
    my @deps = map { s/s+//g; $s_ } split /, $3;
    my $d;
    for $d (map { s/s+//g; $s_ } split /, $1) {
        push @{$depends{$d}}, @deps;
    }
}

${need} = 1 if m{^#if\$s+defined\$(NEED\_\$(w+)\$s*\$(w+)?_GLOBAL?)$s*}};

for (values %depends) {
    my %s;
    $s_ = [sort grep !${$s_}++, @$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 "\nShints{$f}\" if exists $hints{$f};
            print "\nWARNING:\nWarnings{$f}\" if exists $warnings{$f};
            $info++;
        }
        print "\nWARNING:\n$warnings{$f}\n" if exists $warnings{$f};
        $info++;
    }
    $count or print "Found no API matching '$opt{'api-info'}'\";
    print "\n";
    exit 0;
}

if (exists $opt{'list-provided'}) {
    my $f;
    my $count++;
}
$count or print "No portability information available\n" unless $info;
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\n$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;

Open Source Used In APIC-SE-BATMAN 2.1.1d 36131


my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;
my $func;
for $func (keys %API) {
my $match = $func;
$match .= "|$revreplace{$func}" if exists $revreplace{$func};
if ($c =~ /\b(?:Perl_)?($match)\b/) {
$file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
$file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
if (exists $API{$func}{provided}) {
$file{uses_provided}{$func}++;
if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
$file{uses}{$func}++;
my @deps = rec_depend($func);
if (@deps) {
$file{uses_deps}{$func} = \@deps;
for (@deps) {

Open Source Used In APIC-SE-BATMAN 2.1.1d 36132


$file{uses}{$_} = 0 unless exists $file{uses}{$_};
}
}
for ($func, @deps) {
$file{needs}{$_} = 'static' if exists $need{$_};
}
}
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
if ($c =~ /\b$func\b/) {
$file{uses_todo}{$func}++;
}
}
}
}
while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}

Open Source Used In APIC-SE-BATMAN 2.1.1d 36133


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{(Perl_$func\(\s*)(?!aTHX_?)(\)|\[\^\s\)]\*)\(\(\|^\s\)\*\)\}\$1 . ($2 eq ')' ? 'aTHX' : 'aTHX_') . $2 }ge);
                if ($changes) {
                    warning("Doesn't pass interpreter argument aTHX to Perl_$func");
                    $file{changes} += $changes;
                }
            }
        } else {
            warning("Uses Perl_$func instead of $func");
            $file{changes} += ($c =~ s{\bPerl_$func\(\s*)\(\(\|^\s\)\*\)\}\$func\$1\(\g);}
        }
    }

    for $func (sort keys %{$file{uses_replace}}) {
        warning("Uses $func instead of $replace{$func}");
        $file{changes} += ($c =~ s{\b$func\b}/$replace{$func}/g);}
    }

    for $func (sort keys %{$file{uses_provided}}) {
        if ($file{uses}{$func}) {
            if (exists $file{uses_deps}{$func}) {
                diag("Uses $func, which depends on ", join(',', @{$file{uses_deps}{$func}}));
            } else {
                diag("Uses $func");
            }
        }
        $warnings += hint($func);
    }

    unless ($opt{quiet}) {
        for $func (sort keys %{$file{uses_todo}}) {
            warning("Uses $func instead of ");
            $file{changes} += ($c =~ s{\b$func\b}/$func/g);}
        }
    }
}
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' : ";

        my $message = "No need to define NEED_$func when already needed globally";
        if ($message) {
            diag($message);
            $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
        }
    }
}
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$HS+NEED_\w+)$/S1$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$HS+NEED_\w+).*$/S1$pp/m)
        || ($c =~ s/^{(?=$HS*#$HS*include.*\Q$ppport\E/.*)$/S1$pp/m)
        || ($c =~ s/^{(?=$HS*#$HS*include.*XSUB.*\s+?)$/S1$pp/m)
        || ($c =~ s/^{/S1$pp/);
}
else {
    if ($file{has_inc_ppport}) {
        diag("No need to include 'ppport'");
        $file{changes} += ($c =~ s/^{(?=$HS*#$HS*include.*\Q$ppport\E/.*)$/S1$pf/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: $!");
            }
        }
    } else {
        error("Cannot open '$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 $diff;
}
else {
    error("Cannot open '$tmp' for writing: $!");
}
}
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_+)$) {
        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 "%.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+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+COPYRIGHT\s*\^(.*?)\s*\^=/ms; $copy =~ s/^(?=[\S]+)/    /gms; $self =~ s/^\^=\s+Do NOT edit.*?(?=^-)/$copy/ms; $self =~ s/^\s+\^=\s+\Do NOT edit.*?(?=^-)/$copy/ms; $self =~ s/^\s+\^=\s+\Do NOT edit.*?(?=^-)/$copy/ms; $self =~ s/^\s+\Do NOT edit.*?(?=^-)/$copy/ms;
    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: $!
";
print OUT "$pl$c
";
exit 0;
}

__DATA__
/*

Found in path(s):
No license file was found, but licenses were detected in source scan.

/* deflate.c -- compress data using the deflation algorithm
* Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

/* zconf.h -- configuration of the zlib compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.
/* adler32.c -- compute the Adler-32 checksum of a data stream
 * Copyright (C) 1995-2011, 2016 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

Found in path(s):

No license file was found, but licenses were detected in source scan.

/* trees.c -- output deflated data using Huffman coding
 * Copyright (C) 1995-2017 Jean-loup Gailly
 * detect_data_type() function provided freely by Cosmin Truta, 2006
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

Found in path(s):

No license file was found, but licenses were detected in source scan.

=back

Test::Simple will start by printing number of tests run in the form
"1..M" (so "1..5" means you're going to run 5 tests). This strange
format lets Test::Harness know how many tests you plan on running in
case something goes horribly wrong.

If all your tests passed, Test::Simple will exit with zero (which is
normal). If anything failed it will exit with how many failed. If
you run less (or more) tests than you planned, the missing (or extras)
will be considered failures. If no tests were ever run Test::Simple
will throw a warning and exit with 255. If the test died, even after
having successfully completed all its tests, it will still be
considered a failure and will exit with 255.

So the exit codes are...

0           all tests successful
255         test died
any other number  how many failed (including missing or extras)

If you fail more than 254 tests, it will be reported as 254.

This module is by no means trying to be a complete testing system.
It's just to get you started. Once you're off the ground its
recommended you look at L<Test::More>.

=head1 EXAMPLE

Here's an example of a simple .t file for the fictional Film module.

use Test::Simple tests => 5;
use Film; # What you're testing.

my $btaste = Film->new( { Title    => 'Bad Taste',
                          Director => 'Peter Jackson',
                          Rating    => 'R',
                          NumExplodingSheep => 1
                      } );
ok( defined($btaste) && ref $btaste eq 'Film, new() works' );
ok( $btaste->Title      eq 'Bad Taste', 'Title() get'    );
ok( $btaste->Director   eq 'Peter Jackson', 'Director() get' );
ok( $btaste->Rating     eq 'R',             'Rating() get'   );
ok( $btaste->NumExplodingSheep == 1,        'NumExplodingSheep() get' );

It will produce output like this:

1..5
 ok 1 - new() works
 ok 2 - Title() get
 ok 3 - Director() get
not ok 4 - Rating() get
 # Failed test (t/film.t at line 14)
 ok 5 - NumExplodingSheep() get
 # Looks like you failed 1 tests of 5

Indicating the Film::Rating() method is broken.

=head1 CAVEATS

Test::Simple will only report a maximum of 254 failures in its exit code. If this is a problem, you probably have a huge test script. Split it into multiple files. (Otherwise blame the Unix folks for using an unsigned short integer as the exit status).

Because VMS's exit codes are much, much different than the rest of the universe, and perl does horrible mangling to them that gets in my way, it works like this on VMS.
0     SS$_NORMAL        all tests successful
4     SS$_ABORT         something went wrong

Unfortunately, I can't differentiate any further.

=head1 NOTES

Test::Simple is B<explicitly> tested all the way back to perl 5.004.

Test::Simple is thread-safe in perl 5.8.0 and up.

=head1 HISTORY

This module was conceived while talking with Tony Bowden in his kitchen one night about the problems I was having writing some really complicated feature into the new Testing module. He observed that the main problem is not dealing with these edge cases but that people hate to write tests B<at all>. What was needed was a dead simple module that took all the hard work out of testing and was really, really easy to learn. Paul Johnson simultaneously had this idea (unfortunately, he wasn't in Tony's kitchen). This is it.

=head1 SEE ALSO

=over 4

=item L<Test::More>

More testing functions! Once you outgrow Test::Simple, look at Test::More. Test::Simple is 100% forward compatible with Test::More (i.e. you can just use Test::More instead of Test::Simple in your programs and things will still work).

=item L<Test>

The original Perl testing module.

=item L<Test::Unit>

Elaborate unit testing.

=item L<Test::Inline>, L<SelfTest>

Embed tests in your code!

=item L<Test::Harness>
Interprets the output of your test program.

=head1 AUTHORS

Idea by Tony Bowden and Paul Johnson, code by Michael G Schwern
E<lt>schwern@pobox.comE<gt>, wardrobe by Calvin Klein.

=head1 COPYRIGHT


This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.

See F<http://www.perl.com/perl/misc/Artistic.html>

=cut

Found in path(s):
No license file was found, but licenses were detected in source scan.

   /* zutil.h -- internal interface and configuration of the compression library
   * Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
   * For conditions of distribution and use, see copyright notice in zlib.h
   */

Found in path(s):
No license file was found, but licenses were detected in source scan.

=head1 NAME

Compress::Raw::Zlib - Low-Level Interface to zlib compression library

=head1 SYNOPSIS

   use Compress::Raw::Zlib ;
($d, $status) = new Compress::Raw::Zlib::Deflate( [OPT] ) ;
$status = $d->deflate($input, $output) ;
$status = $d->flush($output [, $flush_type]) ;
$d->deflateReset() ;
$d->deflateParams($OPTS) ;
$d->deflateTune($OPTS) ;
$d->dict_adler() ;
$d->crc32() ;
$d->adler32() ;
$d->total_in() ;
$d->total_out() ;
$d->msg() ;
$d->get_Strategy();
$d->get_Level();
$d->get_BufSize();

($i, $status) = new Compress::Raw::Zlib::Inflate( [OPT] ) ;
$status = $i->inflate($input, $output [, $eof]) ;
$status = $i->inflateSync($input) ;
$i->inflateReset() ;
$i->dict_adler() ;
$i->crc32() ;
$i->adler32() ;
$i->total_in() ;
$i->total_out() ;
$i->msg() ;
$i->get_BufSize();

$crc = adler32($buffer [, $crc]) ;
$crc = crc32($buffer [, $crc]) ;

$crc = crc32_combine($crc1, $crc2, $len2);
$adler = adler32_combine($adler1, $adler2, $len2);

my $version = Compress::Raw::Zlib::zlib_version();
my $flags = Compress::Raw::Zlib::zlibCompileFlags();

=head1 DESCRIPTION

The I<Compress::Raw::Zlib> module provides a Perl interface to the I<zlib> compression library (see L</AUTHOR> for details about where to get I<zlib>).

=head1 Compress::Raw::Zlib::Deflate

This section defines an interface that allows in-memory compression using the I<deflate> interface provided by zlib.
Here is a definition of the interface available:

=head2 B<($d, $status) = new Compress::Raw::Zlib::Deflate( [OPT] ) >

Initialises a deflation object.

If you are familiar with the I<zlib> library, it combines the features of the I<zlib> functions I<deflateInit>, I<deflateInit2> and I<deflateSetDictionary>.

If successful, it will return the initialised deflation object, C<$d> and a C<$status> of C<Z_OK> in a list context. In scalar context it returns the deflation object, C<$d>, only.

If not successful, the returned deflation object, C<$d>, will be I<undef> and C<$status> will hold the a I<zlib> error code.

The function optionally takes a number of named options specified as C<< Name => value >> pairs. This allows individual options to be tailored without having to specify them all in the parameter list.

For backward compatibility, it is also possible to pass the parameters as a reference to a hash containing the name=>value pairs.

Below is a list of the valid options:

=over 5

=item B<-Level>

Defines the compression level. Valid values are 0 through 9, C<Z_NO_COMPRESSION>, C<Z_BEST_SPEED>, C<Z_BEST_COMPRESSION>, and C<Z_DEFAULT_COMPRESSION>.

The default is C<Z_DEFAULT_COMPRESSION>.

=item B<-Method>

Defines the compression method. The only valid value at present (and the default) is C<Z_DEFLATED>.

=item B<-WindowBits>

To compress an RFC 1950 data stream, set C<WindowBits> to a positive number between 8 and 15.

To compress an RFC 1951 data stream, set C<WindowBits> to C<-MAX_WBITS>.
To compress an RFC 1952 data stream (i.e. gzip), set `C<WindowBits>` to `C<WANT_GZIP>`. 

For a definition of the meaning and valid values for `C<WindowBits>` refer to the `lib` documentation for `deflateInit2`.

Defaults to `C<MAX_WBITS>`.

=item B<-MemLevel>

For a definition of the meaning and valid values for `C<MemLevel>` refer to the `lib` documentation for `deflateInit2`.

Defaults to `MAX_MEM_LEVEL`.

=item B<-Strategy>

Defines the strategy used to tune the compression. The valid values are `C<Z_DEFAULT_STRATEGY>, C<Z_FILTERED>, C<Z_RLE>, C<Z_FIXED>` and `C<Z_HUFFMAN_ONLY>`.

The default is `C<Z_DEFAULT_STRATEGY>`.

=item B<-Dictionary>

When a dictionary is specified `Compress::Raw::Zlib` will automatically call `C<deflateSetDictionary>` directly after calling `C<deflateInit>`. The Adler32 value for the dictionary can be obtained by calling the method `C<$d-E<gt>dict_adler()>`.

The default is no dictionary.

=item B<-Bufsize>

Sets the initial size for the output buffer used by the `C<$d-E<gt>deflate>` and `C<$d-E<gt>flush>` methods. If the buffer has to be reallocated to increase the size, it will grow in increments of `C<Bufsize>`.

The default buffer size is 4096.

=item B<-AppendOutput>

This option controls how data is written to the output buffer by the `C<$d-E<gt>deflate>` and `C<$d-E<gt>flush>` methods. If the `C<AppendOutput>` option is set to false, the output buffers in the `C<$d-E<gt>deflate>` and `C<$d-E<gt>flush>` methods will be truncated before
uncompressed data is written to them.

If the option is set to true, uncompressed data will be appended to the output buffer in the C<$d-E<gt>deflate> and C<$d-E<gt>flush> methods.

This option defaults to false.

=item B<-CRC32>

If set to true, a crc32 checksum of the uncompressed data will be calculated. Use the C<$d-E<gt>crc32> method to retrieve this value.

This option defaults to false.

=item B<-ADLER32>

If set to true, an adler32 checksum of the uncompressed data will be calculated. Use the C<$d-E<gt>adler32> method to retrieve this value.

This option defaults to false.

=back

Here is an example of using the C<Compress::Raw::Zlib::Deflate> optional parameter list to override the default buffer size and compression level. All other options will take their default values.

```
my $d = new Compress::Raw::Zlib::Deflate ( -Bufsize => 300, -Level => Z_BEST_SPEED ) ;
```

=head2 B<$status = $d-E<gt>deflate($input, $output)>

Deflates the contents of C<$input> and writes the compressed data to C<$output>.

The C<$input> and C<$output> parameters can be either scalars or scalar references.

When finished, C<$input> will be completely processed (assuming there were no errors). If the deflation was successful it writes the deflated data to C<$output> and returns a status value of C<Z_OK>.

On error, it returns a I<zlib> error code.

If the C<AppendOutput> option is set to true in the constructor for the C<$d> object, the compressed data will be appended to C<$output>. If it is false, C<$output> will be truncated before any compressed data is written to it.
B<Note>: This method will not necessarily write compressed data to C<$output> every time it is called. So do not assume that there has been an error if the contents of C<$output> is empty on returning from this method. As long as the return code from the method is C<Z_OK>, the deflate has succeeded.

=head2 B<$status = $d-E<gt>flush($output [, $flush_type]) >

Typically used to finish the deflation. Any pending output will be written to C<$output>.

Returns C<Z_OK> if successful.

Note that flushing can seriously degrade the compression ratio, so it should only be used to terminate a decompression (using C<Z_FINISH>) or when you want to create a I<full flush point> (using C<Z_FULL_FLUSH>).

By default the C<flush_type> used is C<Z_FINISH>. Other valid values for C<flush_type> are C<Z_NO_FLUSH>, C<Z_PARTIAL_FLUSH>, C<Z_SYNC_FLUSH> and C<Z_FULL_FLUSH>. It is strongly recommended that you only set the C<flush_type> parameter if you fully understand the implications of what it does. See the C<zlib> documentation for details.

If the C<AppendOutput> option is set to true in the constructor for the C<$d> object, the compressed data will be appended to C<$output>. If it is false, C<$output> will be truncated before any compressed data is written to it.

=head2 B<$status = $d-E<gt>deflateReset() >

This method will reset the deflation object C<$d>. It can be used when you are compressing multiple data streams and want to use the same object to compress each of them. It should only be used once the previous data stream has been flushed successfully, i.e. a call to C<< $d->flush(Z_FINISH) >> has returned C<Z_OK>.

Returns C<Z_OK> if successful.

=head2 B<$status = $d-E<gt>deflateParams([OPT])>

Change settings for the deflate object C<$d>.

The list of the valid options is shown below. Options not specified will remain unchanged.

=over 5
=item B<-Level>

Defines the compression level. Valid values are 0 through 9, C<Z_NO_COMPRESSION>, C<Z_BEST_SPEED>, C<Z_BEST_COMPRESSION>, and C<Z_DEFAULT_COMPRESSION>.

=item B<-Strategy>

Defines the strategy used to tune the compression. The valid values are C<Z_DEFAULT_STRATEGY>, C<Z_FILTERED> and C<Z_HUFFMAN_ONLY>.

=item B<-BufSize>

Sets the initial size for the output buffer used by the C<$d-E<gt>deflate> and C<$d-E<gt>flush> methods. If the buffer has to be reallocated to increase the size, it will grow in increments of C<Bufsize>.

=back

=head2 B<$status = $d-E<gt>deflateTune($good_length, $max_lazy, $nice_length, $max_chain)>

Tune the internal settings for the deflate object C<$d>. This option is only available if you are running zlib 1.2.2.3 or better.

Refer to the documentation in zlib.h for instructions on how to fly C<deflateTune>.

=head2 B<$d-E<gt>dict_adler()>

Returns the adler32 value for the dictionary.

=head2 B<$d-E<gt>crc32()>

Returns the crc32 value for the uncompressed data to date.

If the C<CRC32> option is not enabled in the constructor for this object, this method will always return 0;

=head2 B<$d-E<gt>adler32()>

Returns the adler32 value for the uncompressed data to date.

=head2 B<$d-E<gt>msg()>

Returns the last error message generated by zlib.

=head2 B<$d-E<gt>total_in()>

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Returns the total number of bytes uncompressed bytes input to deflate.

=head2 $d-E<gt>total_out()

Returns the total number of compressed bytes output from deflate.

=head2 $d-E<gt>get_Strategy()

Returns the deflation strategy currently used. Valid values are
C<Z_DEFAULT_STRATEGY>, C<Z_FILTERED> and C<Z_HUFFMAN_ONLY>.

=head2 $d-E<gt>get_Level()

Returns the compression level being used.

=head2 $d-E<gt>get_BufSize()

Returns the buffer size used to carry out the compression.

=head2 Example

Here is a trivial example of using C<deflate>. It simply reads standard
input, deflates it and writes it to standard output.

    use strict ;
    use warnings ;

    use Compress::Raw::Zlib ;

    binmode STDIN;
    binmode STDOUT;
    my $x = new Compress::Raw::Zlib::Deflate
    or die "Cannot create a deflation stream\n" ;

    my ($output, $status) ;
    while (<>)
    {
        $status = $x->deflate($_, $output) ;

        $status == Z_OK
        or die "deflation failed\n" ;

        print $output ;
    }

    $status = $x->flush($output) ;
$status == Z_OK
    or die "deflation failed\n" ;

    print $output ;

=head1 Compress::Raw::Zlib::Inflate

This section defines an interface that allows in-memory uncompression using
the I<inflate> interface provided by zlib.

Here is a definition of the interface:

=head2 B< ($i, $status) = new Compress::Raw::Zlib::Inflate( [OPT] ) >

Initialises an inflation object.

In a list context it returns the inflation object, C<$i>., and the
I<zlib> status code (C<$status>). In a scalar context it returns the
inflation object only.

If successful, C<$i> will hold the inflation object and C<$status> will
be C<Z_OK>.

If not successful, C<$i> will be I<undef> and C<$status> will hold the
I<zlib> error code.

The function optionally takes a number of named options specified as
C<< -Name => value >> pairs. This allows individual options to be
tailored without having to specify them all in the parameter list.

For backward compatibility, it is also possible to pass the parameters
as a reference to a hash containing the C<< name=>value >> pairs.

Here is a list of the valid options:

=over 5

=item B<-WindowBits>

To uncompress an RFC 1950 data stream, set C<WindowBits> to a positive
number between 8 and 15.

To uncompress an RFC 1951 data stream, set C<WindowBits> to C<-MAX_WBITS>.

To uncompress an RFC 1952 data stream (i.e. gzip), set C<WindowBits> to
C<WANT_GZIP>.

To auto-detect and uncompress an RFC 1950 or RFC 1952 data stream (i.e.
gzip), set `C<WindowBits>` to `C<WANT_GZIP_OR_ZLIB>.

For a full definition of the meaning and valid values for `C<WindowBits>` refer to the `I<zlib>` documentation for `I<inflateInit2>.

Defaults to `C<MAX_WBITS>`.

=item B<-Bufsize>

Sets the initial size for the output buffer used by the `C<$i-E<gt>inflate>` method. If the output buffer in this method has to be reallocated to increase the size, it will grow in increments of `C<Bufsize>`.

Default is 4096.

=item B<-Dictionary>

The default is no dictionary.

=item B<-AppendOutput>

This option controls how data is written to the output buffer by the `C<$i-E<gt>inflate>` method.

If the option is set to false, the output buffer in the `C<$i-E<gt>inflate>` method will be truncated before uncompressed data is written to it.

If the option is set to true, uncompressed data will be appended to the output buffer by the `C<$i-E<gt>inflate>` method.

This option defaults to false.

=item B<-CRC32>

If set to true, a crc32 checksum of the uncompressed data will be calculated. Use the `C<$i-E<gt>crc32>` method to retrieve this value.

This option defaults to false.

=item B<-ADLER32>

If set to true, an adler32 checksum of the uncompressed data will be calculated. Use the `C<$i-E<gt>adler32>` method to retrieve this value.

This option defaults to false.

=item B<-ConsumeInput>
If set to true, this option will remove compressed data from the input buffer of the C<< $i->inflate >> method as the inflate progresses.

This option can be useful when you are processing compressed data that is embedded in another file_buffer. In this case the data that immediately follows the compressed stream will be left in the input buffer.

This option defaults to true.

=item B<-LimitOutput>

The C<LimitOutput> option changes the behavior of the C<< $i->inflate >> method so that the amount of memory used by the output buffer can be limited.

When C<LimitOutput> is used the size of the output buffer used will either be the value of the C<Bufsize> option or the amount of memory already allocated to C<$output>, whichever is larger. Predicting the output size available is tricky, so don't rely on getting an exact output buffer size.

When C<LimitOutout> is not specified C<< $i->inflate >> will use as much memory as it takes to write all the uncompressed data it creates by uncompressing the input buffer.

If C<LimitOutput> is enabled, the C<ConsumeInput> option will also be enabled.

This option defaults to false.

See L</The LimitOutput option> for a discussion on why C<LimitOutput> is needed and how to use it.

=back

Here is an example of using an optional parameter to override the default buffer size.

    my ($i, $status) = new Compress::Raw::Zlib::Inflate( -Bufsize => 300 ) ;

=head2 B<&$status = $i->E<gt>inflate($input, $output [,,$eof]) >

Inflates the complete contents of C<$input> and writes the uncompressed data to C<$output>. The C<$input> and C<$output> parameters can either be scalars or scalar references.

Returns C<Z_OK> if successful and C<Z_STREAM_END> if the end of the compressed data has been successfully reached.
If not successful C<$status> will hold the I<zlib> error code.

If the C<ConsumeInput> option has been set to true when the C<Compress::Raw::Zlib::Inflate> object is created, the C<$input> parameter is modified by C<inflate>. On completion it will contain what remains of the input buffer after inflation. In practice, this means that when the return status is C<Z_OK> the C<$input> parameter will contain an empty string, and when the return status is C<Z_STREAM_END> the C<$input> parameter will contain what (if anything) was stored in the input buffer after the deflated data stream.

This feature is useful when processing a file format that encapsulates a compressed data stream (e.g. gzip, zip) and there is useful data immediately after the deflation stream.

If the C<AppendOutput> option is set to true in the constructor for this object, the uncompressed data will be appended to C<$output>. If it is false, C<$output> will be truncated before any uncompressed data is written to it.

The C<$eof> parameter needs a bit of explanation.

Prior to version 1.2.0, zlib assumed that there was at least one trailing byte immediately after the compressed data stream when it was carrying out decompression. This normally isn't a problem because the majority of zlib applications guarantee that there will be data directly after the compressed data stream. For example, both gzip (RFC 1950) and zip both define trailing data that follows the compressed data stream.

The C<$eof> parameter only needs to be used if B<all> of the following conditions apply

=over 5

=item 1

You are either using a copy of zlib that is older than version 1.2.0 or you want your application code to be able to run with as many different versions of zlib as possible.

=item 2

You have set the C<WindowBits> parameter to C<-MAX_WBITS> in the constructor for this object, i.e. you are uncompressing a raw deflated data stream (RFC 1951).

=item 3
There is no data immediately after the compressed data stream.

=back

If all of these are the case, then you need to set the $eof parameter to true on the final call (and only the final call) to inflate.

If you have built this module with zlib >= 1.2.0, the $eof parameter is ignored. You can still set it if you want, but it won't be used behind the scenes.

=head2 status = inflateSync(input)

This method can be used to attempt to recover good data from a compressed data stream that is partially corrupt.
It scans input until it reaches either a full flush point or the end of the buffer.

If a full flush point is found, Z_OK is returned and input will be have all data up to the flush point removed. This data can then be passed to the inflate method to be uncompressed.

Any other return code means that a flush point was not found. If more data is available, inflateSync can be called repeatedly with more compressed data until the flush point is found.

Note full flush points are not present by default in compressed data streams. They must have been added explicitly when the data stream was created by calling Compress::Deflate::flush with Z_FULL_FLUSH.

=head2 status = inflateReset()

This method will reset the inflation object. It can be used when you are uncompressing multiple data streams and want to use the same object to uncompress each of them.

Returns Z_OK if successful.

=head2 dict_adler()

Returns the adler32 value for the dictionary.

=head2 crc32()

Returns the crc32 value for the uncompressed data to date.

If the CRC32 option is not enabled in the constructor for this object, this method will always return 0;
Returns the adler32 value for the uncompressed data to date.

If the C<ADLER32> option is not enabled in the constructor for this object, this method will always return 0;

Returns the last error message generated by zlib.

Returns the total number of bytes compressed bytes input to inflate.

Returns the total number of uncompressed bytes output from inflate.

Returns the buffer size used to carry out the decompression.

Examples

Here is an example of using C<inflate>.

    use strict;
    use warnings;
    use Compress::Raw::Zlib;

    my $x = new Compress::Raw::Zlib::Inflate()
        or die "Cannot create a inflation stream\n" ;

    my $input = "";
    binmode STDIN;
    binmode STDOUT;

    my ($output, $status) ;
    while (read(STDIN, $input, 4096))
    {
        $status = $x->inflate($input, $output) ;

        print $output ;

        last if $status != Z_OK ;
The next example shows how to use the C<LimitOutput> option. Notice the use of two nested loops in this case. The outer loop reads the data from the input source - STDIN and the inner loop repeatedly calls C<inflate> until C<$input> is exhausted, we get an error, or the end of the stream is reached. One point worth remembering is by using the C<LimitOutput> option you also get C<ConsumeInput> set as well - this makes the code below much simpler.

```perl
use strict;
use warnings;

use Compress::Raw::Zlib;

my $x = new Compress::Raw::Zlib::Inflate(LimitOutput => 1)
or die "Cannot create a inflation stream\n";

my $input = "";
binmode STDIN;
binmode STDOUT;

my ($output, $status);

OUTER:
while (read(STDIN, $input, 4096))
{
do
{
$status = $x->inflate($input, $output);

print $output;

last OUTER unless $status == Z_OK || $status == Z_BUF_ERROR;
}
while ($status == Z_OK && length $input);
}

die "inflation failed\n" unless $status == Z_STREAM_END;

=head1 CHECKSUM FUNCTIONS

Two functions are provided by I<zlib> to calculate checksums. For the
```
Perl interface, the order of the two parameters in both functions has been reversed. This allows both running checksums and one off calculations to be done.

```
$crc = adler32($buffer [, $crc]) ;
$crc = crc32($buffer [, $crc]) ;
```

The buffer parameters can either be a scalar or a scalar reference.

If the $crc parameters is `undef`, the crc value will be reset.

If you have built this module with zlib 1.2.3 or better, two more CRC-related functions are available.

```
$crc = crc32_combine($crc1, $crc2, $len2);
$adler = adler32_combine($adler1, $adler2, $len2);
```

These functions allow checksums to be merged. Refer to the `zlib` documentation for more details.

=head1 Misc

=head2 my $version = Compress::Raw::Zlib::zlib_version();

Returns the version of the zlib library.

=head2 my $flags = Compress::Raw::Zlib::zlibCompileFlags();

Returns the flags indicating compile-time options that were used to build the zlib library. See the zlib documentation for a description of the flags returned by `zlibCompileFlags`.

Note that when the zlib sources are built along with this module the `sprintf` flags (bits 24, 25 and 26) should be ignored.

If you are using zlib 1.2.0 or older, `zlibCompileFlags` will return 0.

=head1 The LimitOutput option.

By default `Si->inflate($input, $output)` will uncompress all data in `$input` and write all of the uncompressed data it has generated to `$output`. This makes the interface to `inflate` much simpler - if the method has uncompressed all successfully `$input`, compressed data in `$input` will have been dealt with. So if you are reading from an input source and uncompressing as you go the code will look something like this

```
use strict ;
use warnings ;
```
use Compress::Raw::Zlib;

my $x = new Compress::Raw::Zlib::Inflate();
or die "Cannot create a inflation stream\n" ;

my $input = "" ;

my ($output, $status) ;
while (read(STDIN, $input, 4096))
{
    $status = $x->inflate($input, $output) ;

    print $output ;

    last if $status != Z_OK ;
}

die "inflation failed\n"
    unless $status == Z_STREAM_END ;

The points to note are

-over 5

-item *

The main processing loop in the code handles reading of compressed data from STDIN.

-item *

The status code returned from C<inflate> will only trigger termination of the main processing loop if it isn't C<Z_OK>. When C<LimitOutput> has not been used the C<Z_OK> status means that the end of the compressed data stream has been reached or there has been an error in uncompression.

-item *

After the call to C<inflate> I<all> of the uncompressed data in C<$input> will have been processed. This means the subsequent call to C<read> can overwrite it's contents without any problem.

-back

For most use-cases the behavior described above is acceptable (this module and it's predecessor, C<Compress::Zlib>, have used it for over 10 years without an issue), but in a few very specific use-cases the amount of
memory required for `$output` can prohibitively large. For example, if the compressed data stream contains the same pattern repeated thousands of times, a relatively small compressed data stream can uncompress into hundreds of megabytes. Remember `$inflate` will keep allocating memory until all the uncompressed data has been written to the output buffer - the size of `$output` is unbounded.

The `$LimitOutput` option is designed to help with this use-case.

The main difference in your code when using `$LimitOutput` is having to deal with cases where the `$input` parameter still contains some uncompressed data that `$inflate` hasn’t processed yet. The status code returned from `$inflate` will be `$Z_OK` if uncompression took place and `$Z_BUF_ERROR` if the output buffer is full.

Below is typical code that shows how to use `$LimitOutput`.

```perl
use strict;
use warnings;

use Compress::Raw::Zlib;

my $x = new Compress::Raw::Zlib::Inflate(LimitOutput => 1)
or die "Cannot create a inflation stream\n" ;

my $input = "" ;
binmode STDIN;
binmode STDOUT;

my ($output, $status) ;

OUTER:
while (read(STDIN, $input, 4096))
{
do {
    $status = $x->inflate($input, $output) ;

    print $output ;

    last OUTER
    unless $status == Z_OK || $status == Z_BUF_ERROR ;
}
while ($status == Z_OK && length $input);
}

die "inflation failed\n" unless $status == Z_STREAM_END ;
```
Points to note this time:

=over 5
=item *

There are now two nested loops in the code: the outer loop for reading the compressed data from STDIN, as before; and the inner loop to carry out the uncompression.

=item *

There are two exit points from the inner uncompression loop.

Firstly when $\text{C<inflate>}$ has returned a status other than $\text{C<Z_OK>}$ or $\text{C<Z_BUF_ERROR>}$. This means that either the end of the compressed data stream has been reached ($\text{C<Z_STREAM_END>}$) or there is an error in the compressed data. In either of these cases there is no point in continuing with reading the compressed data, so both loops are terminated.

The second exit point tests if there is any data left in the input buffer, $\text{C<$input>}$ - remember that the $\text{C<ConsumeInput>}$ option is automatically enabled when $\text{C<LimitOutput>}$ is used. When the input buffer has been exhausted, the outer loop can run again and overwrite a now empty $\text{C<$input>}$.

=back

=head1 ACCESSING ZIP FILES

Although it is possible (with some effort on your part) to use this module to access .zip files, there are other perl modules available that will do all the hard work for you. Check out $\text{C<Archive::Zip>}$, $\text{C<Archive::Zip::SimpleZip>}$, $\text{C<IO::Compress::Zip>}$ and $\text{C<IO::Uncompress::Unzip>}$.

=head1 FAQ

=head2 Compatibility with Unix compress/uncompress.

This module is not compatible with Unix $\text{C<compress>}$.

If you have the $\text{C<uncompress>}$ program available, you can use this to read compressed files

open F, "uncompress -c $filename |";
while (<F>)
Alternatively, if you have the `<gunzip>` program available, you can use this to read compressed files:

```perl
open F, "gunzip -c $filename |";
while (<F>)
{
    ...
}
```

and this to write compressed files, if you have the `<compress>` program available:

```perl
open F, "| compress -c $filename ";
print F "data";
...
close F;
```

=head2 Accessing .tar.Z files

See previous FAQ item.

If the `<Archive::Tar>` module is installed and either the `<uncompress>` or `<gunzip>` programs are available, you can use one of these workarounds to read `.tar.Z` files.

Firstly with `<uncompress>`:

```perl
use strict;
use warnings;
use Archive::Tar;

open F, "uncompress -c $filename |";
my $tar = Archive::Tar->new(*F);
...
```

and this with `<gunzip>`:

```perl
use strict;
use warnings;
use Archive::Tar;

open F, "gunzip -c $filename |";
my $tar = Archive::Tar->new(*F);
...
```

Similarly, if the `<compress>` program is available, you can use this to
write a C.tar.Z file

use strict;
use warnings;
use Archive::Tar;
use IO::File;

my $fh = new IO::File "| compress -c >$filename";
my $tar = Archive::Tar->new();
...
$tar->write($fh);
$fh->close;

=head2 Zlib Library Version Support

By default C<Compress::Raw::Zlib> will build with a private copy of version
1.2.5 of the zlib library. (See the F<README> file for details of
how to override this behaviour)

If you decide to use a different version of the zlib library, you need to be
aware of the following issues

=over 5
=item *
First off, you must have zlib 1.0.5 or better.

=item *

You need to have zlib 1.2.1 or better if you want to use the C<-Merge>
option with C<IO::Compress::Gzip>, C<IO::Compress::Deflate> and
C<IO::Compress::RawDeflate>.

=back

=head1 CONSTANTS

All the I<zlib> constants are automatically imported when you make use
of I<Compress::Raw::Zlib>.

=head1 SEE ALSO

L<Compress::Zlib>, L<IO::Compress::Gzip>, L<IO::Uncompress::Gunzip>, L<IO::Compress::Deflate>,
L<IO::Uncompress::Inflate>, L<IO::Compress::RawDeflate>, L<IO::Uncompress::RawInflate>,
L<IO::Compress::Bzip2>, L<IO::Uncompress::Bunzip2>, L<IO::Compress::Lzma>,
L<IO::Uncompress::UnLzma>, L<IO::Compress::Xz>, L<IO::Uncompress::UnXz>, L<IO::Compress::Lzop>,
L<IO::Uncompress::UnLzop>, L<IO::Compress::Lzf>, L<IO::Uncompress::UnLzf>,

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L<IO::Uncompress::AnyInflate>, L<IO::Uncompress::AnyUncompress>

L<IO::Compress::FAQ|IO::Compress::FAQ>

L<File::GlobMapper|File::GlobMapper>, L<Archive::Zip|Archive::Zip>,
L<Archive::Tar|Archive::Tar>,
L<IO::Zlib|IO::Zlib>

For RFC 1950, 1951 and 1952 see
L<http://www.faqs.org/rfcs/rfc1950.html>,
L<http://www.faqs.org/rfcs/rfc1951.html> and

The I<zlib> compression library was written by Jean-loup Gailly
C<gzip@prep.ai.mit.edu> and Mark Adler C<madler@alumni.caltech.edu>.

The primary site for the I<zlib> compression library is

The primary site for gzip is L<http://www.gzip.org>.

=head1 AUTHOR

This module was written by Paul Marquess, C<pmqs@cpan.org>.

=head1 MODIFICATION HISTORY

See the Changes file.

=head1 COPYRIGHT AND LICENSE

Copyright (c) 2005-2018 Paul Marquess. 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.

Compress-Raw-Zlib

Version 2.081

4 April 2018
DESCRIPTION

-------

This module provides a Perl interface to the zlib compression library.

PREREQUISITES

---------

Before you can build Compress-Raw-Zlib you need to have the following installed on your system:

* A C compiler
* Perl 5.006 or better.

By default, Compress-Raw-Zlib will build its own private copy of the zlib library. If you want to use a different version of zlib, follow the instructions in the section called "Controlling the version of zlib used by Compress-Raw-Zlib" later in this document.

BUILDING THE MODULE

----------

Assuming you have met all the prerequisites, the module can now be built using this sequence of commands:

perl Makefile.PL
make
make test

INSTALLATION

-------

To install Compress-Raw-Zlib, run the command below:

make install
Controlling the version of zlib used by Compress-Raw-Zlib
----------------------------------------------

Compress-Raw-Zlib interfaces to the zlib compression library. There are three options available to control which version/instance of the zlib library is used:

1. Build a private copy of the zlib library using the zlib library source that is included with this module. This is the default and recommended option.

2. Build a private copy of the zlib library using a standard zlib source distribution.

3. Use a pre-built zlib library.

Note that if you intend to use either Option 2 or 3, you need to have zlib version 1.2.0 or better.

The contents of the file config.in are used to control which of the three options is actually used. This file is read during the perl Makefile.PL step of the build, so remember to make any required changes to config.in before building this module.

Option 1
-------

For option 1, edit the file config.in and set the variables in it as follows:

```
BUILD_ZLIB   = True
INCLUDE      = ./zlib-src
LIB          = ./zlib-src
OLD_ZLIB     = False
GZIP_OS_CODE = AUTO_DETECT
```

Option 2
-------

For option 2, fetch a copy of the zlib source distribution from http://www.zlib.org and unpack it into the Compress-Raw-Zlib source directory. Assuming you have fetched zlib 1.2.11, it will create a directory called zlib-1.2.11.
Now set the variables in the file config.in as follows (if the version you have fetched isn't 1.2.11, change the INCLUDE and LIB variables appropriately):

```
BUILD_ZLIB   = True
INCLUDE      = ./zlib-1.2.11
LIB          = ./zlib-1.2.11
OLD_ZLIB     = False
GZIP_OS_CODE = AUTO_DETECT
```

Option 3
--------

For option 3, you need to find out where zlib is stored on your system. There are two parts to this.

First, find the directory where the zlib library is stored (some common names for the library are libz.a and libz.so). Set the LIB variable in the config.in file to that directory.

Secondly, find the directory where the file zlib.h is stored. Now set the INCLUDE variable in the config.in file to that directory.

Next set BUILD_ZLIB to False.

Finally, if you are running zlib 1.0.5 or older, set the OLD_ZLIB variable to True. Otherwise set it to False.

As an example, if the zlib library on your system is in /usr/local/lib, zlib.h is in /usr/local/include and zlib is more recent than version 1.0.5, the variables in config.in should be set as follows:

```
BUILD_ZLIB   = False
INCLUDE      = /usr/local/include
LIB          = /usr/local/lib
OLD_ZLIB     = False
GZIP_OS_CODE = AUTO_DETECT
```

Setting the Gzip OS Code
------------------------

Every gzip stream stores a byte in its header to identify the Operating System that was used to create the gzip stream. When you build Compress-Raw-Zlib it will attempt to determine the value that is correct for your Operating System. This will then be used by IO::Compress::Gzip as the default value for the OS byte in all gzip headers it creates.
The variable GZIP_OS_CODE in the config.in file controls the setting of this value when building Compress-Raw-Zlib. If GZIP_OS_CODE is set to AUTO_DETECT, Compress-Raw-Zlib will attempt to determine the correct value for your Operating System.

Alternatively, you can override auto-detection of the default OS code and explicitly set it yourself. Set the GZIP_OS_CODE variable in the config.in file to be a number between 0 and 255. For example

GZIP_OS_CODE = 3

See RFC 1952 for valid OS codes that can be used.

If you are running one of the less popular Operating Systems, it is possible that the default value picked by this module is incorrect or the default value (3) is used when there is a better value available. When Compress-Raw-Zlib cannot determine what operating system you are running, it will use the default value 3 for the OS code.

If you find you have to change this value, because you think the value auto detected is incorrect, please take a few moments to contact the author of this module.

TROUBLESHOOTING
---------------

Undefined Symbol gzsetparams
-----------------------------

If you get the error shown below when you run the Compress-Raw-Zlib test harness it probably means you are running a copy of zlib that is version 1.0.5 or older.

t/01version........Can't load 'blib/arch/auto/Compress/Zlib/Zlib.so' for module Compress::Raw::Zlib: blib/arch/auto/Compress/Raw/Zlib/Zlib.so: undefined symbol: gzsetparams at ...

There are two ways to fix this problem:

1. Upgrade to the latest version of zlib.

2. Edit config.in and set the OLD_ZLIB variable to True.

Test Harness 01version fails
-----------------------------

If the 01version test harness fails, and the problem isn't covered by the scenario above, it probably means that you have two versions of zlib installed on your system.
Run the command below to see if this is indeed the case

    make test TEST_VERBOSE=1 TEST_FILES=t/01version.t

Try removing the one you don't want to use and rebuild.

Solaris build fails with "language optional software package not installed"

If you are trying to build this module under Solaris and you get an error message like this

    /usr/ucb/cc: language optional software package not installed

it means that Perl cannot find the C compiler on your system. The cryptic message is just Sun's way of telling you that you haven't bought their C compiler.

When you build a Perl module that needs a C compiler, the Perl build system tries to use the same C compiler that was used to build perl itself. In this case your Perl binary was built with a C compiler that lived in /usr/ucb.

To continue with building this module, you need to get a C compiler, or tell Perl where your C compiler is, if you already have one.

Assuming you have now got a C compiler, what you do next will be dependent on what C compiler you have installed. If you have just installed Sun's C compiler, you shouldn't have to do anything. Just try rebuilding this module.

If you have installed another C compiler, say gcc, you have to tell perl how to use it instead of /usr/ucb/cc.

This set of options seems to work if you want to use gcc. Your mileage may vary.

    perl Makefile.PL CC=gcc CCCDLFLAGS=-fPIC OPTIMIZE=" " make test

If that doesn't work for you, it's time to make changes to the Makefile by hand. Good luck!

Solaris build fails with "gcc: unrecognized option `-KPIC"

You are running Solaris and you get an error like this when you try to
build this Perl module

gcc: unrecognized option `-KPIC'

This symptom usually means that you are using a Perl binary that has been built with the Sun C compiler, but you are using gcc to build this module.

When Perl builds modules that need a C compiler, it will attempt to use the same C compiler and command line options that was used to build perl itself. In this case "-KPIC" is a valid option for the Sun C compiler, but not for gcc. The equivalent option for gcc is "-fPIC".

The solution is either:

1. Build both Perl and this module with the same C compiler, either by using the Sun C compiler for both or gcc for both.

2. Try generating the Makefile for this module like this perl

   perl Makefile.PL CC=gcc CCCDLFLAGS=-fPIC OPTIMIZE=" " LD=gcc
   make test

   This second option seems to work when mixing a Perl binary built with the Sun C compiler and this module built with gcc. Your mileage may vary.

HP-UX Notes
-----------
I've had a report that when building Compress-Raw-Zlib under HP-UX that it is necessary to have first built the zlib library with the -fPIC option.

Linux Notes
-----------
Although most Linux distributions already come with zlib, some people report getting this error when they try to build this module:

$ make
cp Zlib.pm blib/lib/Compress/Zlib.pm
AutoSplitting blib/lib/Compress/Zlib.pm (blib/lib/auto/Compress/Zlib)
/usr/bin/perl -I/usr/lib/perl5/5.6.1/i386-linux -I/usr/lib/perl5/5.6.1/ExtUtils/xsubpp -typemap
/usr/lib/perl5/5.6.1/ExtUtils/typemap typemap Zlib.xs > Zlib.xsc && mv Zlib.xsc Zlib.c
gcc -c -I/usr/local/include -fno-strict-aliasing -I/usr/local/include -O2 -march=i386 -mcpu=i686 -DYVERSION="^1.16" -DXS_VERSION="^1.16" -fPIC -I/usr/lib/perl/5.6.1/i386-linux/CORE Zlib.c
Zlib.xs:25:19: zlib.h: No such file or directory
make: *** [Zlib.o] Error 1
This usually means that you have not installed the development RPM for zlib. Check for an RPM that start with "zlib-devel" in your Linux distribution.

Win32 Notes
-----------

If you are running Activestate Perl (from http://www.activestate.com), it ships with a pre-compiled version of Compress-Raw-Zlib. To check if a newer version of Compress-Raw-Zlib is available run this from the command prompt

    C:\> ppm verify -upgrade Compress-Raw-Zlib

If you are not running Activestate Perl and you don't have access to a C compiler, you will not be able to build and install this module.

Win32 & Cygwin Notes
---------------------

It is not possible to install Compress-Raw-Zlib using the CPAN shell. This is because the Compress-Raw-Zlib DLL is itself used by the CPAN shell and it is impossible to remove a DLL while it is already loaded under Windows.

The workaround is to install Compress-Raw-Zlib manually using the instructions given at the start of this file.

FEEDBACK
--------

How to report a problem with Compress-Raw-Zlib.

To help me help you, I need all of the following information:

1. The Versions of everything relevant.
   This includes:

   a. The *complete* output from running this

      perl -V

   Do not edit the output in any way.
   Note, I want you to run "perl -V" and NOT "perl -v".

   If your perl does not understand the ".-V" option it is too old. This module needs Perl version 5.004 or better.
b. The version of Compress-Raw-Zlib you have.
   If you have successfully installed Compress-Raw-Zlib, this one-liner will tell you:

   perl -MCompress::Raw::Zlib -e 'print qq[ver $Compress::Raw::Zlib::VERSION\n]'

   If you are running windows use this

   perl -MCompress::Raw::Zlib -e "print qq[ver $Compress::Raw::Zlib::VERSION\n]"

   If you haven't installed Compress-Raw-Zlib then search Compress::Raw::Zlib.pm for a line like this:

   $VERSION = "2.081" ;

c. The version of zlib you have used.
   If you have successfully installed Compress-Raw-Zlib, this one-liner will tell you:

   perl -MCompress::Raw::Zlib -e "print q[zlib ver ]. Compress::Raw::Zlib::ZLIB_VERSION.qq[\n]"

   If not, look at the beginning of the file zlib.h.

2. If you are having problems building Compress-Raw-Zlib, send me a complete log of what happened. Start by unpacking the Compress-Raw-Zlib module into a fresh directory and keep a log of all the steps

   [edit config.in, if necessary]
   perl Makefile.PL
   make
   make test TEST_VERBOSE=1

Paul Marquess <pmqs@cpan.org>

Found in path(s):
   No license file was found, but licenses were detected in source scan.

   /* uncompr.c -- decompress a memory buffer
   * For conditions of distribution and use, see copyright notice in zlib.h
   */

   Found in path(s):
   * /opt/cola/permits/1137994406_1614192451.62/0/perl-Compress-Raw-Zlib-2.081-1.el8-1.src.rpm-cosi-expand-
No license file was found, but licenses were detected in source scan.

/* inftrees.h -- header to use inftrees.c
 * Copyright (C) 1995-2005, 2010 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

Found in path(s):
No license file was found, but licenses were detected in source scan.

/* deflate.h -- internal compression state
 * Copyright (C) 1995-2016 Jean-loup Gailly
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

Found in path(s):
No license file was found, but licenses were detected in source scan.

/* infback.c -- inflate using a call-back interface
 * Copyright (C) 1995-2016 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

Found in path(s):
No license file was found, but licenses were detected in source scan.

/* inffast.c -- fast decoding
 * Copyright (C) 1995-2017 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

Found in path(s):
No license file was found, but licenses were detected in source scan.
/* zlib.h -- interface of the `zlib' general purpose compression library
version 1.2.11, January 15th, 2017

Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

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misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for
(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

/ * inffast.h -- header to use inffast.c
Copyright (C) 1995-2003, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

/ * compress.c -- compress a memory buffer
EXIT CODES

If all your tests passed, Test::Builder will exit with zero (which is normal). If anything failed it will exit with how many failed. If you run less (or more) tests than you planned, the missing (or extras) will be considered failures. If no tests were ever run Test::Builder will throw a warning and exit with 255. If the test died, even after having successfully completed all its tests, it will still be considered a failure and will exit with 255.

So the exit codes are...

0    all tests successful
255  test died
    any other number  how many failed (including missing or extras)

If you fail more than 254 tests, it will be reported as 254.

B<NOTE>  This behavior may go away in future versions.

CAVEATS and NOTES

Backwards compatibility

Test::More works with Perls as old as 5.004_05.

Overloaded objects

String overloaded objects are compared B<as strings>.  This prevents Test::More from piercing an object's interface allowing better blackbox testing.  So if a function starts returning overloaded objects instead of
bare strings your tests won't notice the difference. This is good.

However, it does mean that functions like is_deeply() cannot be used to test the internals of string overloaded objects. In this case I would suggest Test::Deep which contains more flexible testing functions for complex data structures.

=item Threads

Test::More will only be aware of threads if "use threads" has been done I<before> Test::More is loaded. This is ok:

use threads;
use Test::More;

This may cause problems:

use Test::More
use threads;

=item Test::Harness upgrade

no_plan and todo depend on new Test::Harness features and fixes. If you're going to distribute tests that use no_plan or todo your end-users will have to upgrade Test::Harness to the latest one on CPAN. If you avoid no_plan and TODO tests, the stock Test::Harness will work fine.

Installing Test::More should also upgrade Test::Harness.

=back

=head1 HISTORY

This is a case of convergent evolution with Joshua Pritikin's Test module. I was largely unaware of its existence when I'd first written my own ok() routines. This module exists because I can't figure out how to easily wedge test names into Test's interface (along with a few other problems).

The goal here is to have a testing utility that's simple to learn, quick to use and difficult to trip yourself up with while still providing more flexibility than the existing Test.pm. As such, the names of the most common routines are kept tiny, special cases and magic side-effects are kept to a minimum. WYSIWYG.
SEE ALSO

L<Test::Simple> if all this confuses you and you just want to write some tests. You can upgrade to Test::More later (it's forward compatible).

L<Test> is the old testing module. Its main benefit is that it has been distributed with Perl since 5.004_05.

L<Test::Harness> for details on how your test results are interpreted by Perl.

L<Test::Differences> for more ways to test complex data structures. And it plays well with Test::More.

L<Test::Class> is like XUnit but more perlish.

L<Test::Deep> gives you more powerful complex data structure testing.

L<Test::Unit> is XUnit style testing.

L<Test::Inline> shows the idea of embedded testing.

L<Bundle::Test> installs a whole bunch of useful test modules.

AUTHORS

Michael G Schwern E<lt>schwern@pobox.comE<gt> with much inspiration from Joshua Pritikin's Test module and lots of help from Barrie Slaymaker, Tony Bowden, blackstar.co.uk, chromatic, Fergal Daly and the perl-qa gang.

BUGS

See F<http://rt.cpan.org> to report and view bugs.

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This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.
See F<http://www.perl.com/perl/misc/Artistic.html>

cut

Found in path(s):
No license file was found, but licenses were detected in source scan.

/* inflate.h -- internal inflate state definition
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

/* inftrees.c -- generate Huffman trees for efficient decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

/* Filename: Zlib.xs
* Author  : Paul Marquess, <pmqs@cpan.org>
* Created : 22nd January 1996
* Version : 2.000
* * Copyright (c) 1995-2013 Paul Marquess. All rights reserved.
* This program is free software; you can redistribute it and/or
* modify it under the same terms as Perl itself.
* *
*/

/* gzio.c -- IO on .gz files
* Copyright (C) 1995 Jean-loup Gailly.
* For conditions of distribution and use, see copyright notice in zlib.h
*/

/* gzappend -- command to append to a gzip file

EXIT CODES

If all your tests passed, Test::Builder will exit with zero (which is normal). If anything failed it will exit with how many failed. If you run less (or more) tests than you planned, the missing (or extras) will be considered failures. If no tests were ever run Test::Builder will throw a warning and exit with 255. If the test died, even after having successfully completed all its tests, it will still be considered a failure and will exit with 255.

So the exit codes are...

0       all tests successful
255     test died
any other number how many failed (including missing or extras)

If you fail more than 254 tests, it will be reported as 254.

THREADS

In perl 5.8.0 and later, Test::Builder is thread-safe. The test number is shared amongst all threads. This means if one thread sets the test number using current_test() they will all be effected.

Test::Builder is only thread-aware if threads.pm is loaded I<before> Test::Builder.

EXAMPLES

CPAN can provide the best examples. Test::Simple, Test::More, Test::Exception and Test::Differences all use Test::Builder.
Original code by chromatic, maintained by Michael G Schwern
E<lt>schwern@pobox.comE<gt>

=head1 COPYRIGHT

Copyright 2002, 2004 by chromatic E<lt>chromatic@wgz.orgE<gt> and
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This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.

See F<http://www.perl.com/perl/misc/Artistic.html>

=cut

Found in path(s):
No license file was found, but licenses were detected in source scan.

/* zutil.c -- target dependent utility functions for the compression library
 * Copyright (C) 1995-2017 Jean-loup Gailly
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

Found in path(s):
No license file was found, but licenses were detected in source scan.

/* inflate.c -- zlib decompression
 * Copyright (C) 1995-2016 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

Found in path(s):
No license file was found, but licenses were detected in source scan.
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1

generated_by: 'ExtUtils::MakeMaker version 7.1001, 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: Compress-Raw-Zlib
no_index:
directory:
  - t
  - inc
  - t
  - private
requires: {}
version: '2.081'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
No license file was found, but licenses were detected in source scan.

/* crc32.c -- compute the CRC-32 of a data stream
 * For conditions of distribution and use, see copyright notice in zlib.h
 * Thanks to Rodney Brown <rbrown64@esc.com.au> for his contribution of faster
 * CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
 * tables for updating the shift register in one step with three exclusive-ors
 * instead of four steps with four exclusive-ors. This results in about a
 * factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.
 */

Found in path(s):
No license file was found, but licenses were detected in source scan.

License: (GPL+ or Artistic) and zlib

Found in path(s):
* /opt/cola/permits/1137994406_1614192451.62/0/perl-Compress-Raw-Zlib-2.081-1.el8-1.src.rpm-cosi-expand-
1.2702 jersey-media-jaxb 2.31

1.2702.1 Available under license:

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## Source Code
The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jersey

## Third-party Content

Angular JS, v1.6.6

* License MIT (http://www.opensource.org/licenses/mit-license.php)
* Project: http://angularjs.org
* Copyright: (c) 2010-2017 Google, Inc.

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Bean Validation API 2.0.2
* License: Apache License, 2.0
* Project: http://beanvalidation.org/1.1/
* Copyright: 2009, Red Hat, Inc. and/or its affiliates, and individual contributors
* by the @authors tag.

Hibernate Validator CDI, 6.1.2.Final
* License: Apache License, 2.0
* Project: https://beanvalidation.org/
* Repackaged in org.glassfish.jersey.server.validation.internal.hibernate

Bootstrap v3.3.7
* License: MIT license (https://github.com/twbs/bootstrap/blob/master/LICENSE)
* Project: http://getbootstrap.com
* Copyright: 2011-2016 Twitter, Inc

Google Guava Version 18.0
* License: Apache License, 2.0
* Copyright (C) 2009 The Guava Authors

javax.inject Version: 1
* License: Apache License, 2.0
* Copyright (C) 2009 The JSR-330 Expert Group

Javassist Version 3.25.0-GA
* License: Apache License, 2.0
* Project: http://www.javassist.org/
* Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.

Jackson JAX-RS Providers Version 2.10.1
* License: Apache License, 2.0
* Project: https://github.com/FasterXML/jackson-jaxrs-providers
* Copyright: (c) 2009-2011 FasterXML, LLC. All rights reserved unless otherwise indicated.

jQuery v1.12.4
* License: jquery.org/license
* Project: jquery.org
* Copyright: (c) jQuery Foundation

jQuery Barcode plugin 0.3
* License: MIT & GPL (http://www.opensource.org/licenses/mit-license.php &
http://www.gnu.org/licenses/gpl.html)
* Project: http://www.pasella.it/projects/jquery/barcode
* Copyright: (c) 2009 Antonello Pasella antonello.pasella@gmail.com

JSR-166 Extension - JEP 266
* License: CC0
* No copyright
* Written by Doug Lea with assistance from members of JCP JSR-166 Expert Group and released to the public domain, as explained at http://creativecommons.org/publicdomain/zero/1.0/

KineticJS, v4.7.1
* License: MIT license (http://www.opensource.org/licenses/mit-license.php)
* Copyright: Eric Rowell

org.objectweb.asm Version 8.0
* License: Modified BSD (http://asm.objectweb.org/license.html)
* Copyright (c) 2000-2011 INRIA, France Telecom. All rights reserved.

org.osgi.core version 6.0.0
* License: Apache License, 2.0
* Copyright (c) OSGi Alliance (2005, 2008). All Rights Reserved.

org.glassfish.jersey.server.internal.monitoring.core
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1.2704 python-dateutil 2.7.3-1.ph3

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-------------------------------------------------------------

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1.2705 ulikunitz-xz v0.5.6

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`

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package main

import (
    "bufio"
    "bytes"
    "flag"
    "fmt"
    "io"
    "log"
    "os"
    "path/filepath"
    "strings"
)

const crUsageString = `xb copyright [options] <path>....`
The xb copyright command adds a copyright remark to all go files below path.
-h prints this message and exits
`
func crUsage(w io.Writer) {
fmt.Fprint(w, crUsageString)
}
const copyrightText = `
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`
func goComment(text string) string {
buf := new(bytes.Buffer)
scanner := bufio.NewScanner(strings.NewReader(text))
var err error
for scanner.Scan() {
s := strings.TrimSpace(scanner.Text())
if len(s) == 0 {
continue
}
if _, err = fmt.Fprintln(buf, "//", s); err != nil {
panic(err)
}
}
if err = scanner.Err(); err != nil {
panic(err)
}
if _, err = fmt.Fprintln(buf); err != nil {
panic(err)
}
return buf.String()
}
var goCopyright = goComment(copyrightText)
func addCopyright(path string) (err error) {
log.Printf("adding copyright to %s", path)
src, err := os.Open(path)
if err != nil {
return err
}
defer func() {
cerr := src.Close()
if cerr != nil && err == nil {

Open Source Used In APIC-SE-BATMAN 2.1.1d 36212


newPath := path + ".new"
dst, err := os.Create(newPath)
if err != nil {
    return err
}
dest.Close() {
cerr := dst.Close()
if cerr != nil && err == nil {
    err = cerr
}
}
out := bufio.NewWriter(dst)
fmt.Fprintf(out, goCopyright)
scanner := bufio.NewScanner(src)
line := 0
del := false
for scanner.Scan() {
    line++
txt := scanner.Text()
    if line == 1 && strings.Contains(txt, "Copyright") {
        del = true
        continue
    }
    if del {
        s := strings.TrimSpace(txt)
        if len(s) == 0 {
            del = false
        }
        continue
    }
    fmt.Fprintf(out, txt)
}
if err = scanner.Err(); err != nil {
    return err
}
if err = out.Flush(); err != nil {
    return
}
err = os.Rename(newPath, path)
return
}

func walkCopyrights(path string, info os.FileInfo, err error) error {
    if err != nil {
        return err
    }
if info.IsDir() {
    return nil
}
if !strings.HasSuffix(info.Name(), ".go") {
    return nil
}
return addCopyright(path)
}

func copyright() {
    cmdName := os.Args[0]
    log.SetPrefix(fmt.Sprintf("%s: ", cmdName))
    log.SetFlags(0)

    flag.CommandLine = flag.NewFlagSet(cmdName, flag.ExitOnError)
    flag.Usage = func() { crUsage(os.Stderr); os.Exit(1) }
    help := flag.Bool("h", false, "")

    flag.Parse()

    if *help {
        crUsage(os.Stdout)
        os.Exit(0)
    }

    for _, path := range flag.Args() {
        fi, err := os.Stat(path)
        if err != nil {
            log.Println(err)
            continue
        }
        if !fi.IsDir() {
            log.Printf("%s is not a directory", path)
            continue
        }
        if err = filepath.Walk(path, walkCopyrights); err != nil {
            log.Fatalf("%s error %s", path, err)
        }
    }
}

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1.2706 perl-filter-simple 0.94-2.el8
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Found in path(s):
* /opt/cola/permits/1139282512_1614507677.0/0/perl-Filter-Simple-0.94-2.el8-1.src.rpm-cosi-expand-archive-ynDD2cOp/perl-Filter-Simple.spec

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---
abstract: 'Simplified source filtering'
author:
 - 'Damian Conway'
build_requires:
 ExtUtils::MakeMaker: 0
configure_requires:
 ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.04, CPAN::Meta::Converter version 2.120351'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: Filter-Simple
no_index:
directory:
  - t
  - inc
requires:
  Filter::Util::Call: 0
  Text::Balanced: 1.97
version: 0.94

Found in path(s):
  */opt/cola/permits/1139282512_1614507677.0/0/perl-Filter-Simple-0.94-2.el8-1.src.rpm-cosi-expand-archive-
ynDD2cOp/Filter-Simple-0.94.tar.gz-cosi-expand-archive-JvkIc1aO/Filter-Simple-0.94/META.yml
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=head1 NAME

Filter::Simple - Simplified source filtering

=head1 SYNOPSIS

# in MyFilter.pm:

    package MyFilter;

    use Filter::Simple;

    FILTER { ... };

# or just:

# # use Filter::Simple sub { ... };

# in user's code:

    use MyFilter;

    # this code is filtered

    no MyFilter;

    # this code is not

=head1 DESCRIPTION

=head2 The Problem
Source filtering is an immensely powerful feature of recent versions of Perl. It allows one to extend the language itself (e.g. the Switch module), to simplify the language (e.g. Language::Pythonesque), or to completely recast the language (e.g. Lingua::Romana::Perligata). Effectively, it allows one to use the full power of Perl as its own, recursively applied, macro language.

The excellent Filter::Util::Call module (by Paul Marquess) provides a usable Perl interface to source filtering, but it is often too powerful and not nearly as simple as it could be.

To use the module it is necessary to do the following:

=item 1.
Download, build, and install the Filter::Util::Call module.
(If you have Perl 5.7.1 or later, this is already done for you.)

=item 2.
Set up a module that does a C<use Filter::Util::Call>.

=item 3.
Within that module, create an C<import> subroutine.

=item 4.
Within the C<import> subroutine do a call to C<filter_add>, passing it either a subroutine reference.

=item 5.
Within the subroutine reference, call C<filter_read> or C<filter_read_exact> to "prime" $_ with source code data from the source file that will C<use> your module. Check the status value returned to see if any source code was actually read in.

=item 6.
Process the contents of $_ to change the source code in the desired manner.

=item 7.
Return the status value.
If the act of unimporting your module (via a C<no>) should cause source code filtering to cease, create an C<unimport> subroutine, and have it call C<filter_del>. Make sure that the call to C<filter_read> or C<filter_read_exact> in step 5 will not accidentally read past the C<no>. Effectively this limits source code filters to line-by-line operation, unless the C<import> subroutine does some fancy pre-pre-parsing of the source code it's filtering.

=back

For example, here is a minimal source code filter in a module named BANG.pm. It simply converts every occurrence of the sequence C<BANG\s+BANG> to the sequence C<die 'BANG' if $BANG> in any piece of code following a C<use BANG;> statement (until the next C<no BANG;> statement, if any):

```perl
package BANG;

use Filter::Util::Call;

sub import {
    filter_add { sub {
        my $caller = caller;
        my ($status, $no_seen, $data);
        while ($status = filter_read()) {
            if (/\s*no\s+$caller\s*;\s*?$/) {
                $no_seen=1;
                last;
            }
            $data .= $_;
            $_ = "";
        }
        $data .= $_
        $_. = "";
    }
    $data = $_
    $_. = $data;
    s/BANG\s+BANG/die 'BANG' if \$BANG/g
    unless $status < 0;
    $_. = "no $class\n" if $no_seen;
    return 1;
    }
}

sub unimport {
    filter_del();
}

1;
```

This level of sophistication puts filtering out of the reach of many programmers.
A Solution

The Filter::Simple module provides a simplified interface to Filter::Util::Call; one that is sufficient for most common cases.

Instead of the above process, with Filter::Simple the task of setting up a source code filter is reduced to:

=over 4
=item 1.
Download and install the Filter::Simple module.
(If you have Perl 5.7.1 or later, this is already done for you.)

=item 2.
Set up a module that does a C<use Filter::Simple> and then calls C<FILTER { ... }>

=item 3.
Within the anonymous subroutine or block that is passed to C<FILTER>, process the contents of $\_ to change the source code in the desired manner.

=back

In other words, the previous example, would become:

package BANG;
use Filter::Simple;

FILTER {
  s/BANG\s+BANG/die 'BANG' if $BANG/g;
}
1;

Note that the source code is passed as a single string, so any regex that uses C<^> or C<$> to detect line boundaries will need the C</m> flag.

Disabling or changing <no> behaviour

By default, the installed filter only filters up to a line consisting of one of the three standard source "terminators":

no ModuleName; # optional comment

or:

  __END__

or:

  __DATA__

but this can be altered by passing a second argument to C<use Filter::Simple>
or C<FILTER> (just remember: there's I<no> comma after the initial block when
you use C<FILTER>).

That second argument may be either a C<qr>'d regular expression (which is then
used to match the terminator line), or a defined false value (which indicates
that no terminator line should be looked for), or a reference to a hash
(in which case the terminator is the value associated with the key
C<terminator>.

For example, to cause the previous filter to filter only up to a line of the
form:

  GNAB esu;

you would write:

    package BANG;
    use Filter::Simple;

    FILTER {
        s/BANG\s+BANG/die 'BANG' if $BANG/g;
    }
    qr/^\s*GNAB\s+esu\s*;\s*$/;

or:

    FILTER {
        s/BANG\s+BANG/die 'BANG' if $BANG/g;
    }
    { terminator => qr/^\s*GNAB\s+esu\s*;\s*$/; }

and to prevent the filter's being turned off in any way:

    package BANG;
    use Filter::Simple;
FILTER {
    s/BANG\s+BANG/die 'BANG' if $BANG/g;
}
""; # or: 0

or:

FILTER {
    s/BANG\s+BANG/die 'BANG' if $BANG/g;
} { terminator => " " };

B<Note that, no matter what you set the terminator pattern to, the actual terminator itself I<must> be contained on a single source line.>

=head2 All-in-one interface

Separating the loading of Filter::Simple:

use Filter::Simple;

from the setting up of the filtering:

FILTER { ... };

is useful because it allows other code (typically parser support code or caching variables) to be defined before the filter is invoked. However, there is often no need for such a separation.

In those cases, it is easier to just append the filtering subroutine and any terminator specification directly to the C<use> statement that loads Filter::Simple, like so:

use Filter::Simple sub {
    s/BANG\s+BANG/die 'BANG' if $BANG/g;
};

This is exactly the same as:

use Filter::Simple;
BEGIN {
    Filter::Simple::FILTER {
        s/BANG\s+BANG/die 'BANG' if $BANG/g;
    };
}

except that the C<FILTER> subroutine is not exported by Filter::Simple.
Filtering only specific components of source code

One of the problems with a filter like:

```perl
use Filter::Simple;

FILTER { s/BANG\s+BANG/die 'BANG' if \$BANG/g ; }
```

is that it indiscriminately applies the specified transformation to the entire text of your source program. So something like:

```perl
warn 'BANG BANG, YOU'RE DEAD';
BANG BANG;
```

will become:

```perl
warn 'die 'BANG' if $BANG, YOU'RE DEAD';
die 'BANG' if $BANG;
```

It is very common when filtering source to only want to apply the filter to the non-character-string parts of the code, or alternatively to only the character strings.

Filter::Simple supports this type of filtering by automatically exporting the `FILTER_ONLY` subroutine.

`FILTER_ONLY` takes a sequence of specifiers that install separate (and possibly multiple) filters that act on only parts of the source code. For example:

```perl
use Filter::Simple;

FILTER_ONLY
  code => sub { s/BANG\s+BANG/die 'BANG' if \$BANG/g },
  quotelike => sub { s/BANG\s+BANG/CHITTY CHITTY/g };
```

The `"code"` subroutine will only be used to filter parts of the source code that are not quotelikes, POD, or `__DATA__`. The `quotelike` subroutine only filters Perl quotelikes (including here documents).

The full list of alternatives is:

```perl
over

=item C"code">
```
Filters only those sections of the source code that are not quotelikes, POD, or C<__DATA__>.

=item C"code_no_comments">

Filters only those sections of the source code that are not quotelikes, POD, comments, or C<__DATA__>.

=item C"executable">

Filters only those sections of the source code that are not POD or C<__DATA__>.

=item C"executable_no_comments">

Filters only those sections of the source code that are not POD, comments, or C<__DATA__>.

=item C"quotelike">

Filters only Perl quotelikes (as interpreted by C<&Text::Balanced::extract_quotelike>).  

=item C"string">

Filters only the string literal parts of a Perl quotelike (i.e. the contents of a string literal, either half of a C<tr//>, the second half of an C<s///>).  

=item C"regex">

Filters only the pattern literal parts of a Perl quotelike (i.e. the contents of a C<qr//> or an C<m/>>, the first half of an C<s///>).  

=item C"all">

Filters everything. Identical in effect to C<FILTER>.  

=back

Except for C<< FILTER_ONLY code => sub {...} >>, each of the component filters is called repeatedly, once for each component found in the source code.

Note that you can also apply two or more of the same type of filter in a single C<FILTER_ONLY>. For example, here's a simple macro-preprocessor that is only applied within regexes, with a final debugging pass that prints the resulting source code:

    use Regexp::Common;
FILTER_ONLY
  regex => sub { s/!/\[^/g },
  regex => sub { s/%d/$RE<num>{int}/g },
  regex => sub { s/%f/$RE<num>{real}/g },
  all   => sub { print if $::DEBUG };  

=head2 Filtering only the code parts of source code

Most source code ceases to be grammatically correct when it is broken up
into the pieces between string literals and regexes. So the C<code/>
and C<code_no_comments/> component filter behave slightly differently
from the other partial filters described in the previous section.

Rather than calling the specified processor on each individual piece of
code (i.e. on the bits between quotelikes), the C<code.../> partial
filters operate on the entire source code, but with the quotelike bits
(and, in the case of C<code_no_comments/>, the comments) "blanked out".

That is, a C<code.../> filter I<replaces> each quoted string, quotelike,
regex, POD, and __DATA__ section with a placeholder. The
delimaters of this placeholder are the contents of the C<$;> variable
at the time the filter is applied (normally C<"\034">). The remaining
four bytes are a unique identifier for the component being replaced.

This approach makes it comparatively easy to write code preprocessors
without worrying about the form or contents of strings, regexes, etc.

For convenience, during a C<code.../> filtering operation, Filter::Simple
provides a package variable (C<$Filter::Simple::placeholder$>) that
contains a pre-compiled regex that matches any placeholder...and
captures the identifier within the placeholder. Placeholders can be
moved and re-ordered within the source code as needed.

In addition, a second package variable (C<@Filter::Simple::components>)
contains a list of the various pieces of C<$$_>, as they were originally split
up to allow placeholders to be inserted.

Once the filtering has been applied, the original strings, regexes, POD,
etc. are re-inserted into the code, by replacing each placeholder with
the corresponding original component (from C<@components>). Note that
this means that the C<@components> variable must be treated with extreme
care within the filter. The C<@components> array stores the "back-
translations" of each placeholder inserted into C<$$_>, as well as the
interstitial source code between placeholders. If the placeholder
backtranslations are altered in C<@components>, they will be similarly
changed when the placeholders are removed from C<$$_> after the filter
is complete.

For example, the following filter detects concatenated pairs of strings/quotelikes and reverses the order in which they are concatenated:

```perl
package DemoRevCat;
use Filter::Simple;

FILTER_ONLY code => sub {
    my $ph = $Filter::Simple::placeholder;
    s{ ($ph) \s* \[.\] \s* ($ph) }{ $2.$1 }gx
};
```

Thus, the following code:

```perl
use DemoRevCat;

my $str = "abc" . q(def);

print "$str\n";
```

would become:

```perl
my $str = q(def)."abc";

print "$str\n";
```

and hence print:

```
defabc
```

=head2 Using Filter::Simple with an explicit C<import> subroutine

Filter::Simple generates a special C<import> subroutine for your module (see L"How it works") which would normally replace any C<import> subroutine you might have explicitly declared.

However, Filter::Simple is smart enough to notice your existing C<import> and Do The Right Thing with it. That is, if you explicitly define an C<import> subroutine in a package that's using Filter::Simple, that C<import> subroutine will still be invoked immediately after any filter you install.

The only thing you have to remember is that the C<import> subroutine I<must> be declared I<before> the filter is installed. If you use C<FILTER> to install the filter:
package Filter::TurnItUpTo11;

use Filter::Simple;

FILTER { s/(\w+)/\U$1/; }

that will almost never be a problem, but if you install a filtering subroutine by passing it directly to the C<use Filter::Simple> statement:

package Filter::TurnItUpTo11;

use Filter::Simple sub{ s/(\w+)/\U$1/; }

then you must make sure that your C<import> subroutine appears before that C<use> statement.

=head2 Using Filter::Simple and Exporter together

Likewise, Filter::Simple is also smart enough to Do The Right Thing if you use Exporter:

package Switch;
use base Exporter;
use Filter::Simple;

    @EXPORT = qw(switch case);
    @EXPORT_OK = qw(given when);

FILTER { $$_ = magic_Perl_filter($$_) }

Immediately after the filter has been applied to the source, Filter::Simple will pass control to Exporter, so it can do its magic too.

Of course, here too, Filter::Simple has to know you're using Exporter before it applies the filter. That's almost never a problem, but if you're nervous about it, you can guarantee that things will work correctly by ensuring that your C<use base Exporter> always precedes your C<use Filter::Simple>.

=head2 How it works

The Filter::Simple module exports into the package that calls C<FILTER> (or C<use>s it directly) -- such as package "BANG" in the above example -- two automagically constructed
subroutines -- C<import> and C<unimport> -- which take care of all the
nasty details.

In addition, the generated C<import> subroutine passes its own argument
list to the filtering subroutine, so the BANG.pm filter could easily
be made parametric:

    package BANG;

    use Filter::Simple;

    FILTER {
        my ($die_msg, $var_name) = @_;  
        s/BANG\$s+BANG/die '\$die_msg' if \$\{$var_name\}/g;
    }

    # and in some user code:

    use BANG "BOOM", "BAM";  # "BANG BANG" becomes: die 'BOOM' if $BAM

The specified filtering subroutine is called every time a C<use BANG> is
encountered, and passed all the source code following that call, up to
either the next C<no BANG;> (or whatever terminator you've set) or the
end of the source file, whichever occurs first. By default, any C<no
BANG;> call must appear by itself on a separate line, or it is ignored.

=head1 AUTHOR

Damian Conway

=head1 CONTACT

Filter::Simple is now maintained by the Perl5-Porters.
Please submit bug via the C<perlbug> tool that comes with your perl.
For usage instructions, read C<perldoc perlbug> or possibly C<man perlbug>.
For mostly anything else, please contact E<lt>perl5-porters@perl.orgE<gt>.

Maintainer of the CPAN release is Steffen Mueller E<lt>smueller@cpan.orgE<gt>.
Contact him with technical difficulties with respect to the packaging of the
CPAN module.

Praise of the module, flowers, and presents still go to the author,
Damian Conway E<lt>damian@conway.orgE<gt>.

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NAME
Filter::Simple - Simplified source filtering

SYNOPSIS
# in MyFilter.pm:

    package MyFilter;

    use Filter::Simple;

    FILTER { ... };

    # or just:
    #
    # use Filter::Simple sub { ... };

    # in user's code:

    use MyFilter;

    # this code is filtered

    no MyFilter;

    # this code is not

DESCRIPTION
The Problem
Source filtering is an immensely powerful feature of recent versions of
Perl. It allows one to extend the language itself (e.g. the Switch
module), to simplify the language (e.g. Language::Pythonesque), or to
completely recast the language (e.g. Lingua::Romana::Perligata).
Effectively, it allows one to use the full power of Perl as its own,
recursively applied, macro language.

The excellent Filter::Util::Call module (by Paul Marquess) provides a
usable Perl interface to source filtering, but it is often too powerful
and not nearly as simple as it could be.
To use the module it is necessary to do the following:

1. Download, build, and install the Filter::Util::Call module. (If you have Perl 5.7.1 or later, this is already done for you.)

2. Set up a module that does a "use Filter::Util::Call".

3. Within that module, create an "import" subroutine.

4. Within the "import" subroutine do a call to "filter_add", passing it either a subroutine reference.

5. Within the subroutine reference, call "filter_read" or "filter_read_exact" to "prime" $_ with source code data from the source file that will "use" your module. Check the status value returned to see if any source code was actually read in.

6. Process the contents of $_ to change the source code in the desired manner.

7. Return the status value.

8. If the act of unimporting your module (via a "no") should cause source code filtering to cease, create an "unimport" subroutine, and have it call "filter_del". Make sure that the call to "filter_read" or "filter_read_exact" in step 5 will not accidentally read past the "no". Effectively this limits source code filters to line-by-line operation, unless the "import" subroutine does some fancy pre-pre-parsing of the source code it's filtering.

For example, here is a minimal source code filter in a module named BANG.pm. It simply converts every occurrence of the sequence "BANG\s+BANG" to the sequence "die 'BANG' if $BANG" in any piece of code following a "use BANG;" statement (until the next "no BANG;" statement, if any):

```perl
package BANG;

use Filter::Util::Call;

sub import {
    filter_add(sub {
        my $caller = caller;
        my ($status, $no_seen, $data);
        while ($status = filter_read()) {
            if (/\\s*no\\s*+$caller\\s*?$/) {
                $no_seen=1;
            } else {
                last;
            }
        }
    });
}
```

This level of sophistication puts filtering out of the reach of many programmers.

A Solution
The Filter::Simple module provides a simplified interface to Filter::Util::Call; one that is sufficient for most common cases.

Instead of the above process, with Filter::Simple the task of setting up a source code filter is reduced to:

1. Download and install the Filter::Simple module. (If you have Perl 5.7.1 or later, this is already done for you.)

2. Set up a module that does a "use Filter::Simple" and then calls "FILTER { ... }".

3. Within the anonymous subroutine or block that is passed to "FILTER",
   process the contents of $_ to change the source code in the desired manner.

In other words, the previous example, would become:

```perl
package BANG;
use Filter::Simple;
FILTER {
    s/BANG\s+\$BANG/die 'BANG' if \$BANG/g;
};
1;
```
Note that the source code is passed as a single string, so any regex that uses "^" or "$" to detect line boundaries will need the "/m" flag.

Disabling or changing <no> behaviour

By default, the installed filter only filters up to a line consisting of one of the three standard source "terminators":

    no ModuleName;  # optional comment

or:

    __END__

or:

    __DATA__

but this can be altered by passing a second argument to "use Filter::Simple" or "FILTER" (just remember: there's *no* comma after the initial block when you use "FILTER").

That second argument may be either a "qr"d regular expression (which is then used to match the terminator line), or a defined false value (which indicates that no terminator line should be looked for), or a reference to a hash (in which case the terminator is the value associated with the key 'terminator').

For example, to cause the previous filter to filter only up to a line of the form:

    GNAB esu;

you would write:

    package BANG;
    use Filter::Simple;

    FILTER {
        s/BANG\s+BANG/die 'BANG' if \$BANG/g;
    }
    qr/^[^c]+GNAB\s+esu\s*;\s*$/;

or:

    FILTER {
        s/BANG\s+BANG/die 'BANG' if \$BANG/g;
    }
and to prevent the filter’s being turned off in any way:

```perl
package BANG;
use Filter::Simple;

FILTER {
  s/BANG\s+BANG/die 'BANG' if \$BANG/g;
}

or:

FILTER {
  s/BANG\s+BANG/die 'BANG' if \$BANG/g;
}
{ terminator => "" }
```

Note that, no matter what you set the terminator pattern to, the actual terminator itself *must* be contained on a single source line.

All-in-one interface
Separating the loading of Filter::Simple:

```perl
use Filter::Simple;
from the setting up of the filtering:

FILTER { ... };
```

is useful because it allows other code (typically parser support code or caching variables) to be defined before the filter is invoked. However, there is often no need for such a separation.

In those cases, it is easier to just append the filtering subroutine and any terminator specification directly to the "use" statement that loads Filter::Simple, like so:

```perl
use Filter::Simple sub { 
  s/BANG\s+BANG/die 'BANG' if \$BANG/g;
} ;
```

This is exactly the same as:

```perl
use Filter::Simple;
BEGIN { 
  Filter::Simple::FILTER {
```
except that the "FILTER" subroutine is not exported by Filter::Simple.

Filtering only specific components of source code
One of the problems with a filter like:

    use Filter::Simple;
    FILTER { s/BANG\s+BANG/die 'BANG' if \$BANG/g ; };

is that it indiscriminately applies the specified transformation to the entire text of your source program. So something like:

    warn 'BANG BANG, YOU'RE DEAD';
    BANG BANG;

will become:

    warn 'die 'BANG' if $BANG, YOU'RE DEAD';
    die 'BANG' if $BANG;

It is very common when filtering source to only want to apply the filter to the non-character-string parts of the code, or alternatively to *only* the character strings.

Filter::Simple supports this type of filtering by automatically exporting the "FILTER_ONLY" subroutine.

"FILTER_ONLY" takes a sequence of specifiers that install separate (and possibly multiple) filters that act on only parts of the source code.
For example:

    use Filter::Simple;
    FILTER_ONLY
    code => sub { s/BANG\s+BANG/die 'BANG' if \$BANG/g ; },
    quotelike => sub { s/BANG\s+BANG/CHITTY CHITTY/g ; };

The "code" subroutine will only be used to filter parts of the source code that are not quotelikes, POD, or "__DATA__". The "quotelike" subroutine only filters Perl quotelikes (including here documents).

The full list of alternatives is:

"code"
Filters only those sections of the source code that are not quotelikes, POD, or "__DATA__".

"code_no_comments"
Filters only those sections of the source code that are not quotelikes, POD, comments, or "__DATA__".

"executable"
Filters only those sections of the source code that are not POD or "__DATA__".

"executable_no_comments"
Filters only those sections of the source code that are not POD, comments, or "__DATA__".

"quotelike"
Filters only Perl quotelikes (as interpreted by &Text::Balanced::extract_quotelike).

"string"
Filters only the string literal parts of a Perl quotelike (i.e. the contents of a string literal, either half of a "tr//", the second half of an "s//").

"regex"
Filters only the pattern literal parts of a Perl quotelike (i.e. the contents of a "qr//" or an "m//", the first half of an "s//").

"all"
Filters everything. Identical in effect to "FILTER".

Except for "FILTER_ONLY code => sub {...}"., each of the component filters is called repeatedly, once for each component found in the source code.

Note that you can also apply two or more of the same type of filter in a single "FILTER_ONLY". For example, here's a simple macro-preprocessor that is only applied within regexes, with a final debugging pass that prints the resulting source code:

```perl
use Regexp::Common;
FILTER_ONLY
    regex => sub { s/%d/$RE{num}{int}/g },
    regex => sub { s/%f/$RE{num}{real}/g },
    all   => sub { print if $::DEBUG },

Filtering only the code parts of source code
```
Most source code ceases to be grammatically correct when it is broken up into the pieces between string literals and regexes. So the 'code' and 'code_no_comments' component filter behave slightly differently from the other partial filters described in the previous section.

Rather than calling the specified processor on each individual piece of code (i.e. on the bits between quotelikes), the 'code...' partial filters operate on the entire source code, but with the quotelike bits (and, in the case of 'code_no_comments', the comments) "blanked out".

That is, a 'code...' filter *replaces* each quoted string, quotelike, regex, POD, and __DATA__ section with a placeholder. The delimiters of this placeholder are the contents of the $; variable at the time the filter is applied (normally "\034"). The remaining four bytes are a unique identifier for the component being replaced.

This approach makes it comparatively easy to write code preprocessors without worrying about the form or contents of strings, regexes, etc.

For convenience, during a 'code...' filtering operation, Filter::Simple provides a package variable ($Filter::Simple::placeholder) that contains a pre-compiled regex that matches any placeholder...and captures the identifier within the placeholder. Placeholders can be moved and re-ordered within the source code as needed.

In addition, a second package variable (@Filter::Simple::components) contains a list of the various pieces of $_, as they were originally split up to allow placeholders to be inserted.

Once the filtering has been applied, the original strings, regexes, POD, etc. are re-inserted into the code, by replacing each placeholder with the corresponding original component (from @components). Note that this means that the @components variable must be treated with extreme care within the filter. The @components array stores the "back- translations" of each placeholder inserted into $_, as well as the interstitial source code between placeholders. If the placeholder backtranslations are altered in @components, they will be similarly changed when the placeholders are removed from $_ after the filter is complete.

For example, the following filter detects concatenated pairs of strings/quotelikes and reverses the order in which they are concatenated:

```perl
package DemoRevCat;
use Filter::Simple;

FILTER_ONLY code => sub {
    my $ph = $Filter::Simple::placeholder;

```
Thus, the following code:

use DemoRevCat;

my $str = "abc" . q(def);

print "$str\n";

would become:

my $str = q(def)."abc";

print "$str\n";

and hence print:

defabc

Using Filter::Simple with an explicit "import" subroutine
Filter::Simple generates a special "import" subroutine for your module
(see "How it works") which would normally replace any "import"
subroutine you might have explicitly declared.

However, Filter::Simple is smart enough to notice your existing "import"
and Do The Right Thing with it. That is, if you explicitly define an
"import" subroutine in a package that's using Filter::Simple, that
"import" subroutine will still be invoked immediately after any filter
you install.

The only thing you have to remember is that the "import" subroutine
*must* be declared *before* the filter is installed. If you use "FILTER"
to install the filter:

package Filter::TurnItUpTo11;

use Filter::Simple;

FILTER { s/\w+/\U$1/ ;

that will almost never be a problem, but if you install a filtering
subroutine by passing it directly to the "use Filter::Simple" statement:

package Filter::TurnItUpTo11;

use Filter::Simple sub{ s/\w+/\U$1/ ;

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then you must make sure that your "import" subroutine appears before that "use" statement.

Using Filter::Simple and Exporter together
Likewise, Filter::Simple is also smart enough to Do The Right Thing if you use Exporter:

```perl
package Switch;
use base Exporter;
use Filter::Simple;

@EXPORT    = qw(switch case);
@EXPORT_OK = qw(given when);

FILTER { $_[0] = magic_Perl_filter($_) }
```

Immediately after the filter has been applied to the source, Filter::Simple will pass control to Exporter, so it can do its magic too.

Of course, here too, Filter::Simple has to know you're using Exporter before it applies the filter. That's almost never a problem, but if you're nervous about it, you can guarantee that things will work correctly by ensuring that your "use base Exporter" always precedes your "use Filter::Simple".

How it works
The Filter::Simple module exports into the package that calls "FILTER" (or "use"s it directly) -- such as package "BANG" in the above example -- two automagically constructed subroutines -- "import" and "unimport" -- which take care of all the nasty details.

In addition, the generated "import" subroutine passes its own argument list to the filtering subroutine, so the BANG.pm filter could easily be made parametric:

```perl
package BANG;

use Filter::Simple;

FILTER {
    my ($die_msg, $var_name) = @_;  
    s/BANG\s+BANG/die '$die_msg' if \$${$var_name}/g;
}
```

# and in some user code:
use BANG "BOOM", "BAM";  # "BANG BANG" becomes: die 'BOOM' if $BAM

The specified filtering subroutine is called every time a "use BANG" is encountered, and passed all the source code following that call, up to either the next "no BANG;" (or whatever terminator you've set) or the end of the source file, whichever occurs first. By default, any "no BANG;" call must appear by itself on a separate line, or it is ignored.

AUTHOR
Damian Conway

CONTACT
Filter::Simple is now maintained by the Perl5-Porters. Please submit bug via the "perlbug" tool that comes with your perl. For usage instructions, read "perldoc perlbug" or possibly "man perlbug". For mostly anything else, please contact <perl5-porters@perl.org>.

Maintainer of the CPAN release is Steffen Mueller <smueller@cpan.org>. Contact him with technical difficulties with respect to the packaging of the CPAN module.

Praise of the module, flowers, and presents still go to the author, Damian Conway <damian@conway.org>.

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So there.

********************************************************************

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1.2710 d-bus 1.10.24 13.el7_6

1.2711 logrus v1.7.0

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1.2712 openscap 1.2.9-5.el7_2

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1.2716 perl-threads 1.87 4.el7

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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,
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components (compiler, kernel, and so on) of the operating system on
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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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 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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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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Eclipse  

The following artifacts are EPL.  
* org.eclipse.jetty.orbit:org.eclipse.jdt.core  

The following artifacts are EPL and ASL2.  
* org.eclipse.jetty.orbit:javax.security.auth.message  

The following artifacts are EPL and CDDL 1.0.  
* org.eclipse.jetty.orbit:javax.mail.glassfish  

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Oracle  

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL/GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.2737 diffutils 3.3 5.el7
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#define GDIFF_MAIN
#include "diff.h"
#include <assert.h>
#include "paths.h"
#include <c-stack.h>
#include <dirname.h>
#include <error.h>
#include <exclude.h>
#include <exitfail.h>
#include <filenamecat.h>
#include <file-type.h>
#include <fnmatch.h>
#include <getopt.h>
#include <hard-locale.h>
#include <prepargs.h>
#include <progammae.h>
#include <sh-quote.h>
#include <stat-time.h>
#include <timespec.h>
#include <version-etc.h>
#include <xalloc.h>
#include <xreadlink.h>
#include <binary-io.h>

/* The official name of this program (e.g., no 'g' prefix). */
#define PROGRAM_NAME "diff"
#define AUTHORS
proper_name ("Paul Eggert"),
proper_name ("Mike Haertel"),
proper_name ("David Hayes"),
proper_name ("Richard Stallman"),
proper_name ("Len Tower")

#ifndef GUTTER_WIDTH_MINIMUM
#define GUTTER_WIDTH_MINIMUM 3
#endif

struct regexp_list
{
    char *regexps;/* chars representing disjunction of the regexps */
    size_t len;/* chars used in 'regexps' */
    size_t size;/* size malloc'ed for 'regexps'; 0 if not malloc'ed */
    bool multiple_regexps;/* Does 'regexps' represent a disjunction? */
    struct re_pattern_buffer *buf;
};

static int compare_files (struct comparison const *, char const *, char const *);
static void add_regexp (struct regexp_list *, char const *);
static void summarize_regexp_list (struct regexp_list *);
static void specify_style (enum output_style);
static void specify_value (char const **, char const *, char const *);
static void try_help (char const *, char const *) __attribute__((noreturn));
static void check_stdout (void);
static void usage (void);

/* If comparing directories, compare their common subdirectories recursively. */
static bool recursive;

/* In context diffs, show previous lines that match these regexps. */
static struct regexp_list function_regexp_list;

/* Ignore changes affecting only lines that match these regexps. */
static struct regexp_list ignore_regexp_list;

#if O_BINARY
/* Use binary I/O when reading and writing data (--binary).
   On POSIX hosts, this has no effect. */
static bool binary;
#else
enum { binary = true };
#endif

/* If one file is missing, treat it as present but empty (-N). */
static bool new_file;

/* If the first file is missing, treat it as present but empty 
   (--unidirectional-new-file). */
static bool unidirectional_new_file;

/* Report files compared that are the same (-s). 
   Normally nothing is output when that happens. */
static bool report_identical_files;

static char const shortopts[] =
"0123456789abCcdDefHHiIl:lnNpQrSs:TuU:vwW:xYyZ";

/* Values for long options that do not have single-letter equivalents. */
enum{
    BINARY_OPTION = CHAR_MAX + 1,
    FROM_FILE_OPTION,
    HELP_OPTION,
    HORIZON_LINES_OPTION,
    IGNORE_FILE_NAME_CASE_OPTION,
    INHIBIT_HUNK_MERGE_OPTION,
    LEFT_COLUMN_OPTION,
    LINE_FORMAT_OPTION,
    NO_DEREFERENCE_OPTION,
    NO_IGNORE_FILE_NAME_CASE_OPTION,
    NORMAL_OPTION,
    SDIFF_MERGE_ASSIST_OPTION,
    STRIP_TRAILING_CR_OPTION,
    SUPPRESS_BLANK_EMPTY_OPTION,
    SUPPRESS_COMMON_LINES_OPTION,
    TABSIZE_OPTION,
    TO_FILE_OPTION,

    /* These options must be in sequence. */
    UNCHANGED_LINE_FORMAT_OPTION,
    OLD_LINE_FORMAT_OPTION,
    NEW_LINE_FORMAT_OPTION,

    /* These options must be in sequence. */
    UNCHANGED_GROUP_FORMAT_OPTION,
    OLD_GROUP_FORMAT_OPTION,
    NEW_GROUP_FORMAT_OPTION,
    CHANGED_GROUP_FORMAT_OPTION
};

static char const group_format_option[][sizeof "--unchanged-group-format"] =
{
"--unchanged-group-format",
"--old-group-format",
"--new-group-format",
"--changed-group-format"
};

static char const line_format_option[][sizeof "--unchanged-line-format"] =
{
"--unchanged-line-format",
"--old-line-format",
"--new-line-format"
};

static struct option const longopts[] =
{
{ "binary", 0, 0, BINARY_OPTION },
{ "brief", 0, 0, 'q' },
{ "changed-group-format", 1, 0, CHANGED_GROUP_FORMAT_OPTION },
{ "context", 2, 0, 'C' },
{ "ed", 0, 0, 'e' },
{ "exclude", 1, 0, 'x' },
{ "exclude-from", 1, 0, 'X' },
{ "expand-tabs", 0, 0, 't' },
{ "forward-ed", 0, 0, 'f' },
{ "from-file", 1, 0, FROM_FILE_OPTION },
{ "help", 0, 0, HELP_OPTION },
{ "horizon-lines", 1, 0, HORIZON_LINES_OPTION },
{ "ifdef", 1, 0, 'D' },
{ "ignore-all-space", 0, 0, 'w' },
{ "ignore-blank-lines", 0, 0, 'B' },
{ "ignore-case", 0, 0, 'i' },
{ "ignore-file-name-case", 0, 0, IGNORE_FILE_NAME_CASE_OPTION },
{ "ignore-matching-lines", 1, 0, 'I' },
{ "ignore-space-change", 0, 0, 'b' },
{ "ignore-tab-expansion", 0, 0, 'e' },
{ "ignore-trailing-space", 0, 0, 'z' },
{ "inhibit-hunk-merge", 0, 0, INHIBIT_HUNK_MERGE_OPTION },
{ "initial-tab", 0, 0, 't' },
{ "label", 1, 0, 'L' },
{ "left-column", 0, 0, LEFT_COLUMN_OPTION },
{ "line-format", 1, 0, LINE_FORMAT_OPTION },
{ "minimal", 0, 0, 'd' },
{ "new-file", 0, 0, 'N' },
{ "new-group-format", 1, 0, NEW_GROUP_FORMAT_OPTION },
{ "new-line-format", 1, 0, NEW_LINE_FORMAT_OPTION },
{ "no-dereference", 0, 0, NO_DEREFERENCE_OPTION },
{ "no-ignore-file-name-case", 0, 0, NO_IGNORE_FILE_NAME_CASE_OPTION },
{ "normal", 0, 0, NORMAL_OPTION },
static char *
option_list (char **optionvec, int count)
{
    int i;
    size_t size = 1;
    char *result;
    char *p;

    for (i = 0; i < count; i++)
        size += 1 + shell_quote_length (optionvec[i]);

    p = result = xmalloc (size);
    /* Return a string containing the command options with which diff was invoked.
       Spaces appear between what were separate ARGV-elements.
       There is a space at the beginning but none at the end.
       If there were no options, the result is an empty string.

       Arguments: OPTIONVEC, a vector containing separate ARGV-elements, and COUNT,
       the length of that vector. */

    for (i = 0; i < count; i++)
        char *q = optionvec[i];
        size -= 1 + shell_quote_length (q);
        p = result = (char *) realloc (p, size);
        p = shell_quote (q, p);

    return result;
}
for (i = 0; i < count; i++)
{
  *p++ = '\';
  p = shell_quote_copy (p, optionvec[i]);
}

*p = '\0';
return result;
}

/* Return an option value suitable for add_exclude. */
static int exclude_options (void)
{
  return EXCLUDE_WILDCARDS | (ignore_file_name_case ? FNM_CASEFOLD : 0);
}

int main (int argc, char **argv)
{
  int exit_status = EXIT_SUCCESS;
  int c;
  int i;
  int prev = -1;
  lin ocontext = -1;
  bool explicit_context = false;
  size_t width = 0;
  bool show_c_function = false;
  char const *from_file = NULL;
  char const *to_file = NULL;
  uintmax_t numval;
  char *numend;

  /* Do our initializations. */
  exit_failure = EXIT_TROUBLE;
  initialize_main (&argc, &argv);
  set_program_name (argv[0]);
  setlocale (LC_ALL, "");
  bindtextdomain (PACKAGE, LOCALEDIR);
  textdomain (PACKAGE);
  c_stack_action (0);
  function_regexp_list.buf = &function_regexp;
  ignore_regexp_list.buf = &ignore_regexp;
  re_set_syntax (RE_SYNTAX_GREP | RE_NO_POSIX_BACKTRACKING);
  excluded = new_exclude ();
/* Decode the options. */

while ((c = getopt_long (argc, argv, shortopts, longopts, NULL)) != -1)
{
    switch (c)
{
    case 0:
        break;

    case '0':
    case '1':
    case '2':
    case '3':
    case '4':
    case '5':
    case '6':
    case '7':
    case '8':
    case '9':
        if (! ISDIGIT (prev))
            ocontext = c - '0';
        else if (LIN_MAX / 10 < ocontext
            || ((ocontext = 10 * ocontext + c - '0') < 0))
            ocontext = LIN_MAX;
        break;

    case 'a':
        text = true;
        break;

    case 'b':
        if (ignore_white_space < IGNORE_SPACE_CHANGE)
            ignore_white_space = IGNORE_SPACE_CHANGE;
        break;

    case 'Z':
        if (ignore_white_space < IGNORE_SPACE_CHANGE)
            ignore_white_space |= IGNORE_TRAILING_SPACE;
        break;

    case 'B':
        ignore_blank_lines = true;
        break;

    case 'C':
    case 'U':
        if (optarg)
numval = strtoumax (optarg, &numend, 10);
if (*numend)
    try_help ("invalid context length \"%s\", optarg);
if (LIN_MAX < numval)
    numval = LIN_MAX;
else
    numval = 3;

specify_style (c == 'U' ? OUTPUT_UNIFIED : OUTPUT_CONTEXT);
if (context < numval)
    context = numval;
explicit_context = true;
} break;

case 'c':
    specify_style (OUTPUT_CONTEXT);
    if (context < 3)
        context = 3;
    break;

case 'd':
    minimal = true;
    break;

case 'D':
    specify_style (OUTPUT_IFDEF);
    {
        static char const C_ifdef_group_formats[] =
        "%%=%c#ifndef %s
%%<#endif /* ! %s */
%c#ifdef %s
%%>endif /* %s */
%c#ifndef %s
%%<#else /* %s */
%%>#endif /* %s */
";
        char *b = xmalloc (sizeof C_ifdef_group_formats
        + 7 * strlen (optarg) - 14 /* 7*"%s" */
        - 8 /* 5*"%c" + 3*"%s" */);
        sprintf (b, C_ifdef_group_formats, 
        optarg, optarg, 0,
        optarg, optarg, 0,
        optarg, optarg, optarg);
        for (i = 0; i < sizeof group_format / sizeof group_format[0]; i++)
            {
            specify_value (&group_format[i], b, "-D");
            b += strlen (b) + 1;
            }
    }
    break;
case 'e':
    specify_style (OUTPUT_ED);
    break;

case 'E':
    if (ignore_white_space < IGNORE_SPACE_CHANGE)
        ignore_white_space |= IGNORE_TAB_EXPANSION;
    break;

case 'f':
    specify_style (OUTPUT_FORWARD_ED);
    break;

case 'F':
    add_regexp (&function_regexp_list, optarg);
    break;

case 'h':
    /* Split the files into chunks for faster processing.
       Usually does not change the result.

       This currently has no effect. */
    break;

case 'H':
    speed_large_files = true;
    break;

case 'i':
    ignore_case = true;
    break;

case 'I':
    add_regexp (&ignore_regexp_list, optarg);
    break;

case 'l':
    if (!pr_program[0])
        try_help ("pagination not supported on this host", NULL);
    paginate = true;
#ifndef SIGCHLD
    /* Pagination requires forking and waiting, and
       System V fork+wait does not work if SIGCHLD is ignored. */
    signal (SIGCHLD, SIG_DFL);
#endif
    break;
case 'L':
    if (!file_label[0])
        file_label[0] = optarg;
    else if (!file_label[1])
        file_label[1] = optarg;
    else
        fatal ("too many file label options");
    break;

case 'n':
    specify_style (OUTPUT_RCS);
    break;

case 'N':
    new_file = true;
    break;

case 'p':
    show_c_function = true;
    add_regexp (&function_regexp_list, "^[:alpha:]$_");
    break;

case 'P':
    unidirectional_new_file = true;
    break;

case 'q':
    brief = true;
    break;

case 'r':
    recursive = true;
    break;

case 's':
    report_identical_files = true;
    break;

case 'S':
    specify_value (&starting_file, optarg, "-S");
    break;

case 't':
    expand_tabs = true;
    break;

case 'T':
    initial_tab = true;
break;

case 'u':
    specify_style (OUTPUT_UNIFIED);
    if (context < 3)
        context = 3;
    break;

case 'v':
    version_etc (stdout, PROGRAM_NAME, PACKAGE_NAME, Version,
           AUTHORS, (char *) NULL);
    check_stdout ();
    return EXIT_SUCCESS;

case 'w':
    ignore_white_space = IGNORE_ALL_SPACE;
    break;

case 'x':
    add_exclude (excluded, optarg, exclude_options ());
    break;

case 'X':
    if (add_exclude_file (add_exclude, excluded, optarg,
            exclude_options (), 'u'))
        pfatal_with_name (optarg);
    break;

case 'y':
    specify_style (OUTPUT_SDIFF);
    break;

case 'W':
    numval = strtoumax (optarg, &numend, 10);
    if (! (0 < numval && numval <= SIZE_MAX) || *numend)
        try_help ("invalid width '%s'", optarg);
    if (width != numval)
    {
        if (width)
            fatal ("conflicting width options");
        width = numval;
    }
    break;

    case BINARY_OPTION:
    #if O_BINARY
        binary = true;
    if (! isatty (STDOUT_FILENO))
set_binary_mode (STDOUT_FILENO, O_BINARY);
#endif
break;

case FROM_FILE_OPTION:
    specify_value (&from_file, optarg, "--from-file");
    break;

case HELP_OPTION:
    usage ();
    check_stdout ();
    return EXIT_SUCCESS;

case HORIZON_LINES_OPTION:
    numval = strtol(optarg, &numend, 10);
    if (*numend)
        try_help ("invalid horizon length " Xs", optarg);
    horizon_lines = MAX(horizon_lines, MIN(numval, LIN_MAX));
    break;

case IGNORE_FILE_NAME_CASE_OPTION:
    ignore_file_name_case = true;
    break;

case INHIBIT_HUNK_MERGE_OPTION:
    /* This option is obsolete, but accept it for backward
     * compatibility. */
    break;

case LEFT_COLUMN_OPTION:
    left_column = true;
    break;

case LINE_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    for (i = 0; i < sizeof line_format / sizeof line_format[0]; i++)
        specify_value (&line_format[i], optarg, "--line-format");
    break;

case NO_DEREFERENCE_OPTION:
    no_dereference_symlinks = true;
    break;

case NO_IGNORE_FILE_NAME_CASE_OPTION:
    ignore_file_name_case = false;
    break;

case NORMAL_OPTION:
specify_style (OUTPUT_NORMAL);
break;

case SDIFF_MERGE_ASSIST_OPTION:
    specify_style (OUTPUT_SDIFF);
    sdiff_merge_assist = true;
    break;

case STRIP_TRAILING_CR_OPTION:
    strip_trailing_cr = true;
    break;

case SUPPRESS_BLANK_EMPTY_OPTION:
    suppress_blank_empty = true;
    break;

case SUPPRESS_COMMON_LINES_OPTION:
    suppress_common_lines = true;
    break;

case TABSIZE_OPTION:
    numval = strtolmax (optarg, &numend, 10);
    if (! (0 < numval && numval <= SIZE_MAX) || *numend)
        try_help ("invalid tabsize \"%s\", optarg);
    if (tabsize != numval)
        {
            if (tabsize)
                fatal ("conflicting tabsize options");
            tabsize = numval;
        }
    break;

case TO_FILE_OPTION:
    specify_value (&to_file, optarg, "--to-file");
    break;

case UNCHANGED_LINE_FORMAT_OPTION:
case OLD_LINE_FORMAT_OPTION:
case NEW_LINE_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    c -= UNCHANGED_LINE_FORMAT_OPTION;
    specify_value (&line_format[c], optarg, line_format_option[c]);
    break;

case UNCHANGED_GROUP_FORMAT_OPTION:
case OLD_GROUP_FORMAT_OPTION:
case NEW_GROUP_FORMAT_OPTION:
case CHANGED_GROUP_FORMAT_OPTION:
specify_style (OUTPUT_IFDEF);
c = UNCHANGED_GROUP_FORMAT_OPTION;
specify_value (&group_format[c], optarg, group_format_option[c]);
break;

default:
try_help (NULL, NULL);
}
prev = c;
}

if (output_style == OUTPUT_UNSPECIFIED)
{
if (show_c_function)
{
specify_style (OUTPUT_CONTEXT);
if (ocontext < 0)
    context = 3;
}
else
    specify_style (OUTPUT_NORMAL);
}

if (output_style != OUTPUT_CONTEXT || hard_locale (LC_TIME))
{
#if (defined STAT_TIMESPEC || defined STAT_TIMESPEC_NS \
    || defined HAVE_STRUCT_STAT_ST_SPARE1)
time_format = "%Y-%m-%d %H:%M:%S.%N %z";
#else
time_format = "%Y-%m-%d %H:%M:%S %z";
#endif
/* See POSIX 1003.1-2001 for this format. */
time_format = "%a %b %e %T %Y";
}

if (0 <= ocontext
    && (output_style == OUTPUT_CONTEXT
        || output_style == OUTPUT_UNIFIED)
    && (context < ocontext
        || (ocontext < context && ! explicit_context)))
    context = ocontext;

if (! tabsize)
tabsize = 8;
if (! width)
width = 130;

{
    /* Maximize first the half line width, and then the gutter width,
       according to the following constraints:

1. Two half lines plus a gutter must fit in a line.
2. If the half line width is nonzero:
   a. The gutter width is at least GUTTER_WIDTH_MINIMUM.
   b. If tabs are not expanded to spaces,
      a half line plus a gutter is an integral number of tabs,
      so that tabs in the right column line up. */

    intmax_t t = expand_tabs ? 1 : tabsize;
    intmax_t w = width;
    intmax_t off = (w + t + GUTTER_WIDTH_MINIMUM) / (2 * t) * t;
    sdiff_half_width = MAX (0, MIN (off - GUTTER_WIDTH_MINIMUM, w - off)),
    sdiff_column2_offset = sdiff_half_width ? off : w;
}

/* Make the horizon at least as large as the context, so that
   shift_boundaries has more freedom to shift the first and last hunks. */
if (horizon_lines < context)
    horizon_lines = context;

summarize_regexp_list (&function_regexp_list);
summarize_regexp_list (&ignore_regexp_list);

if (output_style == OUTPUT_IFDEF)
{
    for (i = 0; i < sizeof line_format / sizeof line_format[0]; i++)
    if (!line_format[i])
        line_format[i] = "%l\n";
    if (!group_format[OLD])
        group_format[OLD]
            = group_format[CHANGED] ? group_format[CHANGED] : "%<";
    if (!group_format[NEW])
        group_format[NEW]
            = group_format[CHANGED] ? group_format[CHANGED] : "%>";
    if (!group_format[UNCHANGED])
        group_format[UNCHANGED] = "%=";
    if (!group_format[CHANGED])
        group_format[CHANGED] = concat (group_format[OLD],
            group_format[NEW], "");
}

no_diff_means_no_output =
    (output_style == OUTPUT_IFDEF ?
/* group_format[UNCHANGED]
   || (STREQ (group_format[UNCHANGED], "%z")
   && !*line_format[UNCHANGED])
   : (output_style != OUTPUT_SDIFF) | suppress_common_lines);

files_can_be_treated_as_binary =
  (brief & binary
   & ~ (ignore_blank_lines | ignore_case | strip_trailing_cr
   | (ignore_regexp_list.regexps || ignore_white_space)));

switch_string = option_list (argv + 1, optind - 1);

if (from_file)
{
  if (to_file)
    fatal ("--from-file and --to-file both specified");
  else
    for (; optind < argc; optind++)
      {
        int status = compare_files (NULL, from_file, argv[optind]);
        if (exit_status < status)
          exit_status = status;
      }
else
{
  if (to_file)
    for (; optind < argc; optind++)
      {
        int status = compare_files (NULL, argv[optind], to_file);
        if (exit_status < status)
          exit_status = status;
      }
  else
    {
      if (argc - optind != 2)
        {
          if (argc - optind < 2)
            try_help ("missing operand after ", argv[argc - 1]);
          else
            try_help ("extra operand ", argv[optind + 2]);
        }
      exit_status = compare_files (NULL, argv[optind], argv[optind + 1]);
    }
}

/* Print any messages that were saved up for last. */
print_message_queue ();

check_stdout ();
exit (exit_status);
return exit_status;
}

/* Append to REGLIST the regexp PATTERN. */

static void
add_regexp (struct regexp_list *reglist, char const *pattern)
{
  size_t patlen = strlen (pattern);
  char const *m = re_compile_pattern (pattern, patlen, reglist->buf);

  if (m != 0)
    error (0, 0, "%s: %s", pattern, m);
  else
  {
    char *regexps = reglist->regexps;
    size_t len = reglist->len;
    bool multiple_regexps = reglist->multiple_regexps = regexps != 0;
    size_t newlen = reglist->len = len + 2 * multiple_regexps + patlen;
    size_t size = reglist->size;
    if (size <= newlen)
    {
      if (!size)
        size = 1;
      do size *= 2;
      while (size <= newlen);
      reglist->size = size;
      reglist->regexps = regexps = xrealloc (regexps, size);
    }
    if (multiple_regexps)
    {
      regexps[len++] = '\';
      regexps[len++] = '|';
    }
    memcpy (regexps + len, pattern, patlen + 1);
  }

  /* Ensure that REGLIST represents the disjunction of its regexps.
   * This is done here, rather than earlier, to avoid O(N^2) behavior. */

static void
summarize_regexp_list (struct regexp_list *reglist)
{
    if (reglist->regexps)
    {
        /* At least one regexp was specified. Allocate a fastmap for it. */
        reglist->buf->fastmap = xmalloc (1 << CHAR_BIT);
        if (reglist->multiple_regexps)
        {
            /* Compile the disjunction of the regexps.
            (If just one regexp was specified, it is already compiled.) */
            char const *m = re_compile_pattern (reglist->regexps, reglist->len,
                reglist->buf);
            if (m)
                error (EXIT_TROUBLE, 0, "%s: %s", reglist->regexps, m);
        }
    }
}

static void
try_help (char const *reason_msgid, char const *operand)
{
    if (reason_msgid)
        error (0, 0, _(reason_msgid), operand);
    error (EXIT_TROUBLE, 0, _("Try '%s --help' for more information."),
        program_name);
    abort ();
}

static void
cHECK_stdout (void)
{
    if (ferror (stdout))
        fatal ("write failed");
    else if (fclose (stdout) != 0)
        pfatal_with_name ("standard output");
}

static char const * const option_help_msgid[] = {
    N_("    --normal                  output a normal diff (the default)"),
    N_("    --q, --brief                   report only when files differ"),
    N_("    --s, --report-identical-files report when two files are the same"),
    N_("    --c, -C NUM, --context[=NUM] output NUM (default 3) lines of copied context"),
    N_("    --u, -U NUM, --unified[=NUM] output NUM (default 3) lines of unified context"),
    N_("    --e, --ed                  output an ed script"),
    N_("    --n, --rcs                  output an RCS format diff"),
    N_("    --y, --side-by-side       output in two columns"),
    N_("    -W, --width=NUM            output at most NUM (default 130) print columns"),}
N_("    --left-column             output only the left column of common lines"),
N_("    --suppress-common-lines  do not output common lines"),
"
N_("    --p, --show-c-function     show which C function each change is in"),
N_("    --F, --show-function-line=RE show the most recent line matching RE"),
N_("    --label LABEL             use LABEL instead of file name\n"  
      "    (can be repeated"),
"
N_("    --t, --expand-tabs        expand tabs to spaces in output"),
N_("    --T, --initial-tab        make tabs line up by prepending a tab"),
N_("    --tabsize=NUM             tab stops every NUM (default 8) print columns"),
N_("    --suppress-blank-empty    suppress space or tab before empty output lines"),
N_("    --l, --paginate            pass output through 'pr' to paginate it"),
"
N_("    --r, --recursive          recursively compare any subdirectories found"),
N_("    --no-dereference          don't follow symbolic links"),
N_("    --N, --new-file            treat absent files as empty"),
N_("    --unidirectional-new-file treat absent first files as empty"),
N_("    --ignore-file-name-case   ignore case when comparing file names"),
N_("    --no-ignore-file-name-case consider case when comparing file names"),
N_("    --x, --exclude=PAT        exclude files that match PAT"),
N_("    --X, --exclude-from=FILE   exclude files that match any pattern in FILE"),
N_("    --S, --starting-file=FILE  start with FILE when comparing directories"),
N_("    --from-file=FILE1         compare FILE1 to all operands;\n"       "    FILE1 can be a directory"),
N_("    --to-file=FILE2           compare all operands to FILE2;\n"       "    FILE2 can be a directory"),
"
N_("    --i, --ignore-case        ignore case differences in file contents"),
N_("    --E, --ignore-tab-expansion ignore changes due to tab expansion"),
N_("    --Z, --ignore-trailing-space ignore white space at line end"),
N_("    --b, --ignore-space-change ignore changes in the amount of white space"),
N_("    --w, --ignore-all-space   ignore all white space"),
N_("    --B, --ignore-blank-lines ignore changes where lines are all blank"),
N_("    --I, --ignore-matching-lines=RE ignore changes where all lines match RE"),
"
N_("    --a, --text              treat all files as text"),
N_("    --strip-trailing-cr      strip trailing carriage return on input"),
#if O_BINARY
N_("    --binary                read and write data in binary mode"),
#endif
"
N_("    --D, --ifdef=NAME         output merged file with '#ifdef NAME' diffs"),
N_("    --GTYPEn-group-format=GFMT format GTYPE input groups with GFMT"),
N_("    --line-format=LFMT       format all input lines with LFMT"),
N_("    --LTYPE-line-format=LFMT format LTYPE input lines with LFMT"),
N_("    These format options provide fine-grained control over the output\n"       "    of diff, generalizing -D/-ifdef."),
Usage: \%s [OPTION]... FILES

Mandatory arguments to long options are mandatory for short options too.

Usage: %s [OPTION]... FILES

\%L contents of line

\%l contents of line, excluding any trailing newline

\%[-\[WIDTH\][\[PREC\]][\(do\)X]] LETTER printf-style spec for LETTER

LETTERS are as follows for new group, lower case for old group:

F  first line number

L  last line number

N  number of lines = L-F+1

E  F-1

M  L+1

\%(A=B?T:E)  if A equals B then T else E

\%c'C'  the single character C

\%c'\OOO'  the character with octal code OOO

C  the character C (other characters represent themselves)

\%F  first line number

\%L  contents of line

\%l contents of line, excluding any trailing newline

\%[-\[WIDTH\][\[PREC\]][\(do\)X]]n  printf-style spec for input line number

Both GFMT and LFMT may contain:

\%%  %

\%c'C'  the single character C

\%c'\OOO'  the character with octal code OOO

C  the character C (other characters represent themselves)

-d, --minimal  try hard to find a smaller set of changes

--horizon-lines=NUM  keep NUM lines of the common prefix and suffix

--speed-large-files  assume large files and many scattered small changes

--help  display this help and exit

--version  output version information and exit

FILES are 'FILE1 FILE2' or 'DIR1 DIR2' or 'DIR FILE...' or 'FILE... DIR'.

If --from-file or --to-file is given, there are no restrictions on FILE(s).

If a FILE is '-', read standard input.

Exit status is 0 if inputs are the same, 1 if different, 2 if trouble.

static void

usage (void)

{ char const * const *p;

printf (_("Usage: %s [OPTION]... FILES\n"), program_name);
printf (_("Compare FILES line by line.\n"));

printf (_("Mandatory arguments to long options are mandatory for short options too.\n"));

fputs (_("\n"), stdout);

}
for (p = option_help_msgid; *p; p++)
{
    if (!*p)
        putchar ('
');
    else
    {
        char const *msg = _(*p);
        char const *nl;
        while ((nl = strchr (msg, '\n')))
        {
            int msglen = nl + 1 - msg;
            printf (" %.s", msglen, msg);
            msg = nl + 1;
        }

        printf (" %s\n" + 2 * (*msg != ' ' && *msg != '-'), msg);
    }
}
emit_bug_reporting_address();

/* Set VAR to VALUE, reporting an OPTION error if this is a
   conflict. */
static void
specify_value (char const **var, char const *value, char const *option)
{
    if (*var && !STREQ (*var, value))
    {
        error (0, 0, _("conflicting %s option value '", option, value);
            try_help (NULL, NULL);
        }
    *var = value;
}

/* Set the output style to STYLE, diagnosing conflicts. */
static void
specify_style (enum output_style style)
{
    if (output_style != style)
    {
        if (output_style != OUTPUT_UNSPECIFIED)
            try_help ("conflicting output style options", NULL);
        output_style = style;
    }
}

/* Set the last-modified time of *ST to be the current time. */
static void
set_mtime_to_now (struct stat *st)
{
#ifdef STAT_TIMESPEC
  gettime (&STAT_TIMESPEC (st, st_mtim));
#else
  struct timespec t;
  gettime (&t);
  st->st_mtime = t.tv_sec;
#endif
#endif}

/* Compare two files (or dirs) with parent comparison PARENT
 and names NAME0 and NAME1.
 (If PARENT is null, then the first name is just NAME0, etc.)
 This is self-contained; it opens the files and closes them.

 Value is EXIT_SUCCESS if files are the same, EXIT_FAILURE if
different, EXIT_TROUBLE if there is a problem opening them. */

static int
compare_files (struct comparison const *parent,
               char const *name0,
               char const *name1)
{
  struct comparison cmp;
#define DIR_P(f) (S_ISDIR (cmp.file[f].stat.st_mode) != 0)
  register int f;
  int status = EXIT_SUCCESS;
  bool same_files;
  char *free0;
  char *free1;

  /* If this is directory comparison, perhaps we have a file
     that exists only in one of the directories.
     If so, just print a message to that effect. */

  if (! ((name0 && name1)
        || (unidirectional_new_file && name1)
        || new_file))
    { char const *name = name0 ? name0 : name1;
char const *dir = parent->file[!name0].name;

/* See POSIX 1003.1-2001 for this format. */
message ("Only in %s: %s\n", dir, name);

/* Return EXIT_FAILURE so that diff_dirs will return
EXIT_FAILURE ("some files differ"). */
return EXIT_FAILURE;
}

memset (cmp.file, 0, sizeof cmp.file);
cmp.parent = parent;

/* cmp.file[f].desc markers */
#define NONEXISTENT (-1) /* nonexistent file */
#define UNOPENED (-2) /* unopened file (e.g. directory) */
#define ERRNO_ENCODE(errno) (-3 - (errno)) /* encoded errno value */
#define ERRNO_DECODE(desc) (-3 - (desc)) /* inverse of ERRNO_ENCODE */

cmp.file[0].desc = name0 ? UNOPENED : NONEXISTENT;
cmp.file[1].desc = name1 ? UNOPENED : NONEXISTENT;

/* Now record the full name of each file, including nonexistent ones. */

if (!name0)
    name0 = name1;
if (!name1)
    name1 = name0;

if (!parent)
{
    free0 = NULL;
    free1 = NULL;
    cmp.file[0].name = name0;
    cmp.file[1].name = name1;
}
else
{
    cmp.file[0].name = free0
    = file_name_concat (parent->file[0].name, name0, NULL);
    cmp.file[1].name = free1
    = file_name_concat (parent->file[1].name, name1, NULL);
}

/* Stat the files. */

for (f = 0; f < 2; f++)
if (cmp.file[f].desc != NONEXISTENT)
{
if (f & file_name_cmp (cmp.file[f].name, cmp.file[0].name) == 0)
{
    cmp.file[f].desc = cmp.file[0].desc;
    cmp.file[f].stat = cmp.file[0].stat;
}
else if (STREQ (cmp.file[f].name, "-"))
{
    cmp.file[f].desc = STDIN_FILENO;
    if (binary & ! isatty (STDIN_FILENO))
        set_binary_mode (STDIN_FILENO, O_BINARY);
    if (fstat (STDIN_FILENO, &cmp.file[f].stat) != 0)
        cmp.file[f].desc = ERRNO_ENCODE (errno);
else
    if (S_ISREG (cmp.file[f].stat.st_mode))
    {
        off_t pos = lseek (STDIN_FILENO, 0, SEEK_CUR);
        if (pos < 0)
            cmp.file[f].desc = ERRNO_ENCODE (errno);
        else
            cmp.file[f].stat.st_size =
                MAX (0, cmp.file[f].stat.st_size - pos);
    }
/* POSIX 1003.1-2001 requires current time for
stdin. */
    set_mtime_to_now (&cmp.file[f].stat);
}
}else if ((no_dereference_symlinks
    ? lstat (cmp.file[f].name, &cmp.file[f].stat)
    : stat (cmp.file[f].name, &cmp.file[f].stat))
!= 0)
    cmp.file[f].desc = ERRNO_ENCODE (errno);
}
/* Mark files as nonexistent as needed for -N and -P, if they are
inaccessible empty regular files (the kind of files that 'patch'
creates to indicate nonexistent backups), or if they are
top-level files that do not exist but their counterparts do
exist. */
for (f = 0; f < 2; f++)
    if ((new_file || (f == 0 & unidirectional_new_file))
        & cmp.file[f].desc == UNOPENED)
? (S_ISREG (cmp.file[f].stat.st_mode)
   && ! (cmp.file[f].stat.st_mode & (S_IRWXU | S_IRWXG | S_IRWXO))
   && cmp.file[f].stat.st_size == 0)
 : ((cmp.file[f].desc == ERRNO_ENCODE (ENOENT)
    || cmp.file[f].desc == ERRNO_ENCODE (EBADF))
   && ! parent
   && (cmp.file[1 - f].desc == UNOPENED
    || cmp.file[1 - f].desc == STDIN_FILENO)))
cmp.file[f].desc = NONEXISTENT;

for (f = 0; f < 2; f++)
 if (cmp.file[f].desc == NONEXISTENT)
 {
  memset (&cmp.file[f].stat, 0, sizeof cmp.file[f].stat);
  cmp.file[f].stat.st_mode = cmp.file[1 - f].stat.st_mode;
 }

for (f = 0; f < 2; f++)
 {
  int e = ERRNO_DECODE (cmp.file[f].desc);
  if (0 <= e)
  {
    errno = e;
    perror_with_name (cmp.file[f].name);
    status = EXIT_TROUBLE;
  }
 }

if (status == EXIT_SUCCESS && ! parent && DIR_P (0) != DIR_P (1))
{
 /* If one is a directory, and it was specified in the command line,
 use the file in that dir with the other file's basename. */

    int fnm_arg = DIR_P (0);
    int dir_arg = 1 - fnm_arg;
    char const *fnm = cmp.file[fnm_arg].name;
    char const *dir = cmp.file[dir_arg].name;
    char const *filename = cmp.file[dir_arg].name = free0
    = find_dir_file_pathname (dir, last_component (fnm));

    if (STREQ (fnm, "."))
    fatal ("cannot compare "." to a directory");

    if ((no_dereference_symlinks
    ? lstat (filename, &cmp.file[dir_arg].stat)
    : stat (filename, &cmp.file[dir_arg].stat))
     != 0)
    {

perror_with_name (filename);

status = EXIT_TROUBLE;
}
}

if (status != EXIT_SUCCESS)
{
    /* One of the files should exist but does not. */
}

else if (cmp.file[0].desc == NONEXISTENT
    && cmp.file[1].desc == NONEXISTENT)
{
    /* Neither file "exists", so there's nothing to compare. */
}

else if ((same_files
    = (cmp.file[0].desc != NONEXISTENT
        && cmp.file[1].desc != NONEXISTENT
        && 0 < same_file (&cmp.file[0].stat, &cmp.file[1].stat)
        && same_file_attributes (&cmp.file[0].stat,
            &cmp.file[1].stat))
    && no_diff_means_no_output)
{
    /* The two named files are actually the same physical file. 
    We know they are identical without actually reading them. */
}

else if (DIR_P (0) & DIR_P (1))
{
    if (output_style == OUTPUT_IFDEF)
fatal ("-D option not supported with directories");

    /* If both are directories, compare the files in them. */

    if (parent && !recursive)
    {
        /* But don't compare dir contents one level down
           unless -r was specified. 
           See POSIX 1003.1-2001 for this format. */
message ("Common subdirectories: %s and %s\n", 
            cmp.file[0].name, cmp.file[1].name);
    }

    else
status = diff_dirs (&cmp, compare_files);
    }
else if ((DIR_P (0) | DIR_P (1))
  || (parent
        && !((S_ISREG (cmp.file[0].stat.st_mode)
        || S_ISLNK (cmp.file[0].stat.st_mode))
        && (S_ISREG (cmp.file[1].stat.st_mode))

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if ((DIR_P (0) | DIR_P (1))
    && recursive
    && (new_file
        | (unidirectional_new_file
            && cmp.file[0].desc == NONEXISTENT)))
status = diff_dirs (&cmp, compare_files);
else
    
    char const *dir;

    /* PARENT must be non-NULL here. */
    assert (parent);
    dir = parent->file[cmp.file[0].desc == NONEXISTENT].name;

    /* See POSIX 1003.1-2001 for this format. */
    message5 ("Only in %s: %s\n", dir, name0);

    status = EXIT_FAILURE;

else

    /* See POSIX 1003.1-2001 for this format. */
    message5 ("File %s is a %s while file %s is a %s\n", 
        file_label[0] ? file_label[0] : cmp.file[0].name, 
        file_type (&cmp.file[0].stat), 
        file_type (&cmp.file[1].stat));

    /* This is a difference. */
    status = EXIT_FAILURE;

else if (S_ISLNK (cmp.file[0].stat.st_mode)

    || S_ISLNK (cmp.file[1].stat.st_mode))

    { /* We get here only if we use lstat(), not stat(). */
      assert (no_dereference_symlinks);

      if (S_ISLNK (cmp.file[0].stat.st_mode)
&& S_ISLNK (cmp.file[1].stat.st_mode))
{
/* Compare the values of the symbolic links. */
char *link_value[2] = { NULL, NULL };

for (f = 0; f < 2; f++)
{
    link_value[f] = xreadlink (cmp.file[f].name);
    if (link_value[f] == NULL)
    {
        perror_with_name (cmp.file[f].name);
        status = EXIT_TROUBLE;
        break;
    }
}
if (status == EXIT_SUCCESS)
{
    if (! STREQ (link_value[0], link_value[1]))
    {
        message("Symbolic links %s and %s differ\n",
                 cmp.file[0].name, cmp.file[1].name);
        /* This is a difference. */
        status = EXIT_FAILURE;
    }
}
for (f = 0; f < 2; f++)
    free (link_value[f]);
else
{
    /* We have two files that are not to be compared, because
    one of them is a symbolic link and the other one is not. */

    message5("File %s while file %s is a %s\n",
              file_label[0] ? file_label[0] : cmp.file[0].name,
                          file_type (&cmp.file[0].stat),
                          file_type (&cmp.file[1].stat));

    /* This is a difference. */
    status = EXIT_FAILURE;
}

else if (files_can_be_treated_as_binary
    && S_ISREG (cmp.file[0].stat.st_mode)
    && S_ISREG (cmp.file[1].stat.st_mode)
    && cmp.file[0].stat.st_size != cmp.file[1].stat.st_size)
{
message ("Files %s and %s differ\n",
    file_label[0] ? file_label[0] : cmp.file[0].name,
status = EXIT_FAILURE;
}
else
{
    /* Both exist and neither is a directory. */

    /* Open the files and record their descriptors. */

    int oflags = O_RDONLY | (binary ? O_BINARY : 0);

    if (cmp.file[0].desc == UNOPENED)
    if ((cmp.file[0].desc = open (cmp.file[0].name, oflags, 0)) < 0)
    {
        perror_with_name (cmp.file[0].name);
        status = EXIT_TROUBLE;
    }
    if (cmp.file[1].desc == UNOPENED)
    {
        if (same_files)
            cmp.file[1].desc = cmp.file[0].desc;
        else if ((cmp.file[1].desc = open (cmp.file[1].name, oflags, 0)) < 0)
        {
            perror_with_name (cmp.file[1].name);
            status = EXIT_TROUBLE;
        }
    }
    /* Compare the files, if no error was found. */

    if (status == EXIT_SUCCESS)
    status = diff_2_files (&cmp);
    /* Close the file descriptors. */

    if (0 <= cmp.file[0].desc && close (cmp.file[0].desc) != 0)
    {
        perror_with_name (cmp.file[0].name);
        status = EXIT_TROUBLE;
    }
    if (0 <= cmp.file[1].desc && cmp.file[0].desc != cmp.file[1].desc
    && close (cmp.file[1].desc) != 0)
    {
        perror_with_name (cmp.file[1].name);
        status = EXIT_TROUBLE;
    }
/* Now the comparison has been done, if no error prevented it, 
and STATUS is the value this function will return. */

if (status == EXIT_SUCCESS)
{
    if (report_identical_files && !DIR_P (0))
        message ("Files %s and %s are identical
", 
            file_label[0] ? file_label[0] : cmp.file[0].name, 

} else
{
    /* Flush stdout so that the user sees differences immediately. 
This can hurt performance, unfortunately. */
    if (fflush (stdout) != 0)
        pfatal_with_name (_("standard output"));

}

free (free0);
free (free1);

return status;

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* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/org/springframework/context/annotation/MBeanExportConfiguration.java
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 * jar/org/springframework/validation/beanvalidation/SpringConstraintValidatorFactory.java
 * /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-
 * jar/org/springframework/format/number/CurrencyUnitFormatter.java
 * /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-
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 * jar/org/springframework/cache/annotation/CacheConfig.java
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/**
 * [@link FactoryBean] that obtains a WebSphere [@link javax.management.MBeanServer]
 * reference through WebSphere's proprietary [@code AdminServiceFactory] API,
 * available on WebSphere 5.1 and higher.
 *
 * <p>Exposes the [@code MBeanServer] for bean references.
 *
 * <p>This [@code FactoryBean] is a direct alternative to [@link MBeanServerFactoryBean],
 * which uses standard JMX 1.2 API to access the platform's [@link MBeanServer].
 *
 * <p>See the javadocs for WebSphere's
 *
 * and
 *
 *
 * @author Juergen Hoeller
 * @author Rob Harrop
* @since 2.0.3
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
*/

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* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-
  jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.java
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/**
 * Indicates that a component is only eligible for registration when all
 * [@linkplain #value specified conditions] match.
 *
 * `<em>condition</em>` is any state that can be determined programmatically
 * before the bean definition is due to be registered (see [@link Condition] for details).
 *
 * The [@code @Conditional] annotation may be used in any of the following ways:
 *
 * <ul>
 * <li>as a type-level annotation on any class directly or indirectly annotated with
 *     [@code @Component], including [@link Configuration @Configuration] classes</li>
 * <li>as a meta-annotation, for the purpose of composing custom stereotype
 *     annotations</li>
 * <li>as a method-level annotation on any [@link Bean @Bean] method</li>
 * </ul>
 *
 * If a [@code @Configuration] class is marked with [@code @Conditional],
 * all of the [@code @Bean] methods, [@link Import @Import] annotations, and
 * [@link ComponentScan @ComponentScan] annotations associated with that
 * class will be subject to the conditions.
 *
 * NOTE: Inheritance of [@code @Conditional] annotations
 * is not supported; any conditions from superclasses or from overridden
 * methods will not be considered. In order to enforce these semantics,
 * [@code @Conditional] itself is not declared as
 * [@link java.lang.annotation.Inherited @Inherited]; furthermore, any
 * custom `<em>composed annotation</em>` that is meta-annotated with
 * [@code @Conditional] must not be declared as [@code @Inherited].
 */
* @author Phillip Webb
* @author Sam Brannen
* @since 4.0
* @see Condition
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/org/springframework/context/annotation/Conditional.java

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* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/org/springframework/context/config/PropertyOverrideBeanDefinitionParser.java
* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/org/springframework/scripting/groovy/GroovyObjectCustomizer.java
* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/org/springframework/jmx/export/annotation/ManagedNotifications.java
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* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1.jar/org/springframework/scheduling/config/ScheduledTasksBeanDefinitionParser.java
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* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1.jar/org/springframework/format/Parser.java
* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1.jar/org/springframework/cache/annotation/CacheEvict.java
* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1.jar/org/springframework/context/annotation/ScopeMetadataResolver.java
* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1.jar/org/springframework/format/Printer.java
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* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1.jar/org/springframework/remoting/support/RemoteInvocationUtils.java
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* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1.jar/org/springframework/scripting/bsh/BshScriptFactory.java
* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1.jar/org/springframework/jndi/JndiPropertySource.java
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Abstract the invocation of a cache operation.

<p>Does not provide a way to transmit checked exceptions but provide a special exception that should be used to wrap any exception that was thrown by the underlying invocation. Callers are expected to handle this issue type specifically.

@<strong>author</strong> Stephane Nicoll
@<strong>since</strong> 4.1

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* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1.jar/org/springframework/scheduling/support/DelegatingErrorHandlingRunnable.java
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* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1.jar/org/springframework/jmx/export/assembly/MBeanInfoAssembler.java
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* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1.jar/org/springframework/ejb/config/RemoteStatelessSessionBeanDefinitionParser.java
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1.2741 gogoprotobuf v0.0.0-20171007142547-342cbe0a0415

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1.2742 units v0.0.0-20190924025748-f65c72e2690d

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1.2743 mitchellh-copystructure v1.1.2

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1.2744 jopt-simple 5.0.4

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* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/AlternativeLongOptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionParserState.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/UnconfiguredOptionException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/AbstractOptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/MethodInvokingValueConverter.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionalArgumentOptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/util/DateConverter.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/util/RegexMatcher.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/ConstructorInvokingValueConverter.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionArgumentConversionException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Classes.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/UnavailableOptionException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-
jar/joptsimple/OptionDescriptor.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/ValueConversionException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionParser.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Reflection.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/UnrecognizedOptionException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Messages.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/NoArgumentOptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/ParserRules.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/RequiredArgumentOptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/ArgumentList.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/ValueConverter.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Rows.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Columns.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/AbbreviationMap.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSet.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/util/InetAddressConverter.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/BuiltinHelpFormatter.java
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* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/util/EnumConverter.java

1.2745 berkeley-db 5.3.28+dfsg1 0.5

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1.2748 httpcore-nio 4.4.5

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<meta http-equiv="X-UA-Compatible" content="IE=edge">
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</head>

<body>

<!-- Navigation -->
<header>
<nav class="navbar navbar-default navbar-fixed-top">
<div class="container">
<div class="navbar-header">
<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
<span class="sr-only">Toggle navigation</span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
</button>
<a href="/" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
</div>
<div class="collapse navbar-collapse" id="mainnav-collapse">
<div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a> &nbsp;&raquo &nbsp;<a href="/licenses/">Licenses</a></div>
<ul class="nav navbar-nav navbar-right">
<li class="dropdown">
<a href="/" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
<ul class="dropdown-menu" role="menu">
<li><a href="/foundation">Overview</a></li>
<li><a href="/foundation/members.html">Members</a></li>
<li><a href="/foundation/how-it-works.html">Process</a></li>
<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
<li><a href="/foundation/glossary.html">Glossary</a></li>
<li><a href="/foundation/preFAQ.html">FAQ</a></li>
<li><a href="/foundation/contact.html">Contact</a></li>
</ul>
</li>
<li><a href="/index.html#projects-list">Projects</a></li>
<li class="dropdown">
<a href="/" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
<ul class="dropdown-menu" role="menu">
<li><a href="http://people.apache.org/">Overview</a></li>
<li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
<li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
<li><a href="http://planet.apache.org/">Planet Apache</a></li>
</ul>
</li>
<li class="dropdown">
<a href="/" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span class="caret"></span></a>
<ul class="dropdown-menu" role="menu">
<li><a href="/projects/index.html#projects-intro">Projects</a></li>
<li><a href="/foundation/how-it-works.html#meritocracy">How You Can Contribute</a></li>
<li><a href="/people.publications.html">Publications</a></li>
<li><a href="/people.html">Community</a></li>
<li><a href="/people.html">Join the Community</a></li>
<li><a href="/people.html#positions">Positions</a></li>
<li><a href="/people.html#positions">Contact</a></li>
</ul>
</li>
</ul>
</div>
</nav></header>
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Additionally, it summarises some exceptions to the general BSD-like copyright found in LICENSE that covers our generic code and most of the system specific ports.
Please read LICENSE first to find out what is allowed to do with Info-ZIP's UnZip code.

There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):
Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port). These copyrights are discussed in more detail below.
All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding _in an apparatus that performs LZW encoding_, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP License. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

* MoreFiles
  *
  
  Open Source Used In APIC-SE-BATMAN 2.1.1d 36528
* A collection of File Manager and related routines
* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
* with significant code contributions by Nitin Ganatra
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The following copyright applies to the Mac OS "macbin3" decoding code
(extra field compatibility with ZipIt):

* MacBinaryIII.h
*
* Copyright 1997 Christopher Evans (cevans@poppybank.com)
* Basic encoding and decoding of Macintosh files to the
* MacBinary III spec.
* ..............................................................................
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* (available at ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit
* homepage of Leonard Rosenthol leonardr@netcom.com)

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..................................................................................

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Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduce code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

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-----

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The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors. The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

--------------------------------------------------------------------------
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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From gsf@research.att.com Wed Mar 1 20:30:54 2006
Return-Path: <gsf@research.att.com>
X-Original-To: mps@bridge.intra
Delivered-To: mps@bridge.intra
Received: from localhost (localhost [127.0.0.1])
by localhost (Postfix) with ESMTP id B8C814E4F
for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:53 +0100 (CET)
Received: from mail.bridge.intra ([127.0.0.1])
by localhost (lnx.bridge.intra [127.0.0.1]) (amavisd-new, port 10024)
with LMTP id 05987-03 for <mps@bridge.intra>;
Wed, 1 Mar 2006 20:30:42 +0100 (CET)
Received: from pop.gmx.net (localhost [127.0.0.1])
by mail.bridge.intra (Postfix) with ESMTP id C8C73794D
for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:38 +0100 (CET)
X-Flags: 0000
Delivered-To: GMX delivery to ps.m@gmx.net
Received: (qmail invoked by alias); 01 Mar 2006 19:23:46 -0000
Received: from mail-red.research.att.com (EHLO mail-white.research.att.com) [192.20.225.110]
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Received: (from gsf@localhost)
by raptor.research.att.com (SGI-8.9.3p2/8.8.7) id OAA86112
you may include it directly
retain the testregex.c header comment
it uses a very free license to maximize distribution
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using # comment style to be complete

let me know how it works with your libc
also pass on any new tests you cook up

On Wed, 1 Mar 2006 20:15:02 +0100 (CET) Peter S. Mazinger wrote:
> Hello Glenn!

> I would want to add testregex.c and the related *.dat files to the uClibc
testsuite. uClibc is licensed under LGPL v2.1. I haven't found any
licensing related info on testregex.

> Is it allowed to use the code there, or should I accomodate the testsuite
to download the needed files from the original site each time it is ran?

> Thanks, Peter

> --
> Peter S. Mazinger <ps dot m at gmx dot net>     ID: 0xA5F059F2
> Key fingerprint = 92A4 31E1 56BC 3D5A 2D08 BB6E C389 975E A5F0 59F2
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1.2758 pip 9.0.3

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1.2759 flake 3.7.7

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1.2761 e2fsprogs 1.42.9-19.el7_7.0atomix1

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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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# This is a Makefile stub which handles the creation of BSD shared libraries.
# In order to use this stub, the following makefile variables must be defined.
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
  `echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:=$(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-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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Index: tdba/tdb.c

--- tdba.orig/tdb.c
+++ tdba/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
/*
*/
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell              2005
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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Theodore Ts'o
23-June-2007

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[This is the first released version of the library GPL. It is
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That's all there is to it!
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss
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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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1.2762 libreswan 3.25-9.1.el7_8
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lib/libswan/pfkey_error.c
lib/libswan/pfkey_sock.c
lib/libswan/rangetosubnet.c
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jloup@gzip.org  madler@alumni.caltech.edu

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     linux/net/ipsec/des/cbc_enc.c linux/net/ipsec/des/des_enc.c
     linux/net/ipsec/des/des_opts.c linux/net/ipsec/des/ecb_enc.c
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Mesa 3-D graphics library
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tomb - support for clean goroutine termination in Go.

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1.2777 perl-extutils-install 2.14-4.el8

1.2777.1 Available under license:

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ExtUtils-Install

Install perl modules into the source tree. Used by ExtUtils::MakeMaker and
Module::Build.

INSTALLATION

To install this module, run the following commands:

perl Makefile.PL
make
make test
make install

SUPPORT AND DOCUMENTATION

After installing, you can find documentation for this module with the perldoc command.

perldoc ExtUtils::Install

You can also look for information at:

Search CPAN
http://search.cpan.org/dist/ExtUtils-Install

CPAN Request Tracker:
http://rt.cpan.org/NoAuth/Bugs.html?Dist=ExtUtils-Install

AnnoCPAN, annotated CPAN documentation:
http://annocpan.org/dist/ExtUtils-Install

CPAN Ratings:
http://cpanratings.perl.org/d/ExtUtils-Install

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=back

Test::Simple will start by printing number of tests run in the form "1..M" (so "1..5" means you're going to run 5 tests). This strange format lets Test::Harness know how many tests you plan on running in case something goes horribly wrong.

If all your tests passed, Test::Simple will exit with zero (which is normal). If anything failed it will exit with how many failed. If you run less (or more) tests than you planned, the missing (or extras) will be considered failures. If no tests were ever run Test::Simple
will throw a warning and exit with 255. If the test died, even after having successfully completed all its tests, it will still be considered a failure and will exit with 255.

So the exit codes are...

0       all tests successful
255     test died or all passed but wrong # of tests run
any other number  how many failed (including missing or extras)

If you fail more than 254 tests, it will be reported as 254.

This module is by no means trying to be a complete testing system. It's just to get you started. Once you're off the ground its recommended you look at L<Test::More>.

=head1 EXAMPLE

Here's an example of a simple .t file for the fictional Film module.

use Test::Simple tests => 5;

use Film;  # What you're testing.

my $btaste = Film->new({ Title => 'Bad Taste',
                        Director => 'Peter Jackson',
                        Rating   => 'R',
                        NumExplodingSheep => 1
                   });
ok( defined($btaste) && ref $btaste eq 'Film,  'new() works' );
ok( $btaste->Title      eq 'Bad Taste',     'Title() get'    );
ok( $btaste->Director   eq 'Peter Jackson', 'Director() get' );
ok( $btaste->Rating     eq 'R',             'Rating() get'   );
ok( $btaste->NumExplodingSheep == 1,        'NumExplodingSheep() get' );

It will produce output like this:

1..5
ok 1 - new() works
ok 2 - Title() get
ok 3 - Director() get
not ok 4 - Rating() get
#  Failed test 'Rating() get'
# in t/film.t at line 14.
ok 5 - NumExplodingSheep() get
# Looks like you failed 1 tests of 5
Indicating the Film::Rating() method is broken.

=head1 CAVEATS

Test::Simple will only report a maximum of 254 failures in its exit code. If this is a problem, you probably have a huge test script. Split it into multiple files. (Otherwise blame the Unix folks for using an unsigned short integer as the exit status).

Because VMS's exit codes are much, much different than the rest of the universe, and perl does horrible mangling to them that gets in my way, it works like this on VMS.

0     SS$_NORMAL        all tests successful
4     SS$_ABORT         something went wrong

Unfortunately, I can't differentiate any further.

=head1 NOTES

Test::Simple is B<explicitly> tested all the way back to perl 5.004.

Test::Simple is thread-safe in perl 5.8.0 and up.

=head1 HISTORY

This module was conceived while talking with Tony Bowden in his kitchen one night about the problems I was having writing some really complicated feature into the new Testing module. He observed that the main problem is not dealing with these edge cases but that people hate to write tests B<at all>. What was needed was a dead simple module that took all the hard work out of testing and was really, really easy to learn. Paul Johnson simultaneously had this idea (unfortunately, he wasn't in Tony's kitchen). This is it.

=head1 SEE ALSO

=over 4

=item L.TestTools::More>

More testing functions! Once you outgrow Test::Simple, look at Test::More. Test::Simple is 100% forward compatible with Test::More (i.e. you can just use Test::More instead of Test::Simple in your
programs and things will still work).

=item L<Test>

The original Perl testing module.

=item L<Test::Unit>

Elaborate unit testing.

=item L<Test::Inline>, L<SelfTest>

Embed tests in your code!

=item L<Test::Harness>

Interprets the output of your test program.

=head1 AUTHORS

Idea by Tony Bowden and Paul Johnson, code by Michael G Schwern
E<lt>schwern@pobox.comE<gt>, wardrobe by Calvin Klein.

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modify it under the same terms as Perl itself.

See F<http://www.perl.com/perl/misc/Artistic.html>

=cut

Found in path(s):
* /opt/cola/permits/1139282042_1614507710.36/0/perl-ExtUtils-Install-2.14-4.el8-1.src.rpm-cosi-expand-archive-

No license file was found, but licenses were detected in source scan.

=back

=head2 Extending and Embedding Test::More
Sometimes the Test::More interface isn't quite enough. Fortunately, Test::More is built on top of Test::Builder which provides a single, unified backend for any test library to use. This means two test libraries which both use Test::Builder can be used together in the same program.

If you simply want to do a little tweaking of how the tests behave, you can access the underlying Test::Builder object like so:

```perl
my $test_builder = Test::More->builder;
```

Returns the Test::Builder object underlying Test::More for you to play with.

**EXIT CODES**

If all your tests passed, Test::Builder will exit with zero (which is normal). If anything failed it will exit with how many failed. If you run less (or more) tests than you planned, the missing (or extras) will be considered failures. If no tests were ever run Test::Builder will throw a warning and exit with 255. If the test died, even after having successfully completed all its tests, it will still be considered a failure and will exit with 255.

So the exit codes are...

```plaintext
0       all tests successful
255     test died or all passed but wrong # of tests run
any other number how many failed (including missing or extras)
```

If you fail more than 254 tests, it will be reported as 254.

**NOTE** This behavior may go away in future versions.

**CAVEATS and NOTES**

**Backwards compatibility**
Test::More works with Perls as old as 5.004_05.

=item Overloaded objects

String overloaded objects are compared B<as strings> (or in cmp_ok()'s case, strings or numbers as appropriate to the comparison op). This prevents Test::More from piercing an object's interface allowing better blackbox testing. So if a function starts returning overloaded objects instead of bare strings your tests won't notice the difference. This is good.

However, it does mean that functions like is_deeply() cannot be used to test the internals of string overloaded objects. In this case I would suggest Test::Deep which contains more flexible testing functions for complex data structures.

=item Threads

Test::More will only be aware of threads if "use threads" has been done I<before> Test::More is loaded. This is ok:

  use threads;
  use Test::More;

This may cause problems:

  use Test::More
  use threads;

=item Test::Harness upgrade

no_plan and todo depend on new Test::Harness features and fixes. If you're going to distribute tests that use no_plan or todo your end-users will have to upgrade Test::Harness to the latest one on CPAN. If you avoid no_plan and TODO tests, the stock Test::Harness will work fine.

Installing Test::More should also upgrade Test::Harness.

=back

=head1 HISTORY
This is a case of convergent evolution with Joshua Pritikin's Test module. I was largely unaware of its existence when I'd first written my own ok() routines. This module exists because I can't figure out how to easily wedge test names into Test's interface (along with a few other problems).

The goal here is to have a testing utility that's simple to learn, quick to use and difficult to trip yourself up with while still providing more flexibility than the existing Test.pm. As such, the names of the most common routines are kept tiny, special cases and magic side-effects are kept to a minimum. WYSIWYG.

=head1 SEE ALSO

L<Test::Simple> if all this confuses you and you just want to write some tests. You can upgrade to Test::More later (it's forward compatible).

L<Test> is the old testing module. Its main benefit is that it has been distributed with Perl since 5.004_05.

L<Test::Harness> for details on how your test results are interpreted by Perl.

L<Test::Differences> for more ways to test complex data structures. And it plays well with Test::More.

L<Test::Class> is like XUnit but more perlish.

L<Test::Deep> gives you more powerful complex data structure testing.

L<Test::Unit> is XUnit style testing.

L<Test::Inline> shows the idea of embedded testing.

L<Bundle::Test> installs a whole bunch of useful test modules.

=head1 AUTHORS

Michael G Schwern E<lt>schwern@pobox.comE<gt> with much inspiration from Joshua Pritikin's Test module and lots of help from Barrie Slaymaker, Tony Bowden, blackstar.co.uk, chromatic, Fergal Daly and the perl-qa gang.
See F<http://rt.cpan.org> to report and view bugs.

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=pod

=back

=head1 ENVIRONMENT

=over 4

=item B<PERL_INSTALL_ROOT>

Will be prepended to each install path.

=item B<EU_INSTALL_IGNORE_SKIP>

Will prevent the automatic use of INSTALL.SKIP as the install skip file.

=item B<EU_INSTALL_SITE_SKIPFILE>

If there is no INSTALL.SKIP file in the make directory then this value can be used to provide a default.

=item B<EU_INSTALL_ALWAYS_COPY>

If this environment variable is true then normal install processes will always overwrite older identical files during the install process.

Note that the alias EU_ALWAYS_COPY will be supported if EU_INSTALL_ALWAYS_COPY is not defined until at least the 1.50 release. Please ensure you use the
correct EU_INSTALL_ALWAYS_COPY.

=back

=head1 AUTHOR

Original author lost in the mists of time. Probably the same as Makemaker.

Production release currently maintained by demerphq C<yves at cpan.org>,
extensive changes by Michael G. Schwern.

Send bug reports via http://rt.cpan.org/. Please send your
generated Makefile along with your report.

=head1 LICENSE

This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.

See L<http://www.perl.com/perl/misc/Artistic.html>

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Found in path(s):
* /opt/cola/permits/1139282042_1614507710.36/0/perl-ExtUtils-Install-2.14-4.el8-1.src.rpm-cosi-expand-archive-
No license file was found, but licenses were detected in source scan.

---
abstract: 'install files from here to there'
author:
  - 'demerphq <yves@cpan.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: ExtUtils-Install
no_index:
directory:
  - t
  - inc
requires:
  Carp: '0'
  Cwd: '0'
  ExtUtils::MakeMaker: '0'
  File::Basename: '0'
  File::Compare: '0'
  File::Copy: '0'
  File::Find: '0'
  File::Path: '0'
  File::Spec: '0'
  File::Temp: '0'

resources:
  bugtracker: https://rt.cpan.org/NoAuth/Bugs.html?Dist=ExtUtils-Install
  homepage: https://metacpan.org/release/ExtUtils-Install
  license: http://dev.perl.org/licenses/
  repository: https://github.com/Perl-Toolchain-Gang/ExtUtils-Install
  version: '2.14'
  x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Revision history for ExtUtils-Install

2.14

  - Fix tests for when perl path contains a space

2.12

  - Fix win32 check

2.10

  - 'make -s' support: set $INSTALL_QUIET automatically

2.08

  - Optimisations:
    * use our instead of vars
    * lazy load modules
    * make OS variables into constants
    * move some calculations out of a loop

2.06

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- Removed instructions using Build.PL from README

- Load Win32API::File for _move_file_at_boot only when needed

- Allow disabling autosplit by omitting autosplit dir

2.04

- Cosmetic change as forgot to update version information in POD on last two releases

2.02

- Reverted change to pm_to_blib that causes write-only directory paths to be created

2.00

- Formal release to change META information and synchronise versioning

1.68

- Introduce env var PERL_INSTALL_QUIET to silence pm_to_blib() output

1.67

- better -w tests

1.66

- Fix writable tests when running as root

1.65

- ExtUtils::Install handle symbolic and hard links

1.64

- Remove MM_TEST_ROOT feature from ExtUtils::Install tests

1.63

- Enable tests to run in parallel

1.62

- Various POD fixes and typos
- Cross-compilation fixes
- VMS fixes

1.57

Adds 'skip_cwd' parameter to ExtUtils::Installed. With this new parameter, the current directory is not included in the installed module search. This avoids finding modules from other perls which happen to be below the current directory.

1.56

Pod fixes.

1.55

Pod fixes.

1.54

This is a "no-change" version bump because I pushed the v1.53 change and then realized that MakeMaker.t was a bad name for a file that would end up in core where the EUMM tests and the EUI tests are in the same directory. This renames it to InstallWithMM.t.

1.53

Final stage of the divorce from EUMM. Now the EUMM related tests are no longer shared. Build.pl and Build.t go, and there shall be peace on earth. At least until somebody patches EUMM/t/basic.t for something EUI related...

Thanks to M. Schwern for helping me work this one out. Cheers man.

1.52_03

Missed the t/Installed.t test from core. Bumped version number to allow a new distro to be released.

1.52_02

Make _chmod verbose message use octal modes, thanks to BDFOY

Further changes from core, including lastest test file infrastructure from EUMM.

Fixed a number of problems in ExtUtils::Installed, for various reasons this includes a version bump to 1.999_001, which will eventually become version 2.0. These problems related to finding modules that were installed
with either INSTALL_BASE or PREFIX. Hopefully this resolves these issues.

1.52_01 (core only release)

Changes from Core:

commit 3d55b451d9544fbd4c27c33287b76bee30328830
Author: John Malmberg
Date:   Sun Feb 15 09:25:10 2009 -0600

   ExtUtils::Install VMS extended character set support

   Preview from https://rt.cpan.org/Ticket/Display.html?id=42149

1.52

Production rerelease of 1.51 to make the CPAN indexer happy about permissions (hopefully).

SVN Revision 44.

1.51

Production release of 1.50_05. No other changes.

SVN revision 43.

1.50_05

SVN revision 42.

Fix broken test as reported by Craig Berry.

1.50_04

SVN revision 41.

Restructure tests to make it easier to maintain given it is distributed in various ways in three different packages.

1.50_03

SVN revision 40.

Sigh, just after i released 1.50_02 I noticed that a test modified in it will fail under VMS. So this is a fixup release for that alone.
1.50_02

SVN revision 39.

Synchronize with the changes that were made in blead perl patch #33567. VMS changes by Craig Berry. See

http://perl5.git.perl.org/perl.git/commit/553b5000d7907cb0cb8f4658c1d6a2aac379415b

This was marked in the pod as 1.51 but not actually version bumped.

So I've marked it as 1.50_02 as a test release prior to putting it out as the real 1.51

This release also restores the missing installed.t which was accidentally missed by the MANIFEST having a duplicate entry for install.t instead. Probably something should have warned about this, but I haven't worked out what.

Includes changes from Activestate/ActivePerl:

- To make installation less chatty when not under verbose mode. See

http://rt.cpan.org/Public/Bug/Display.html?id=5903

- To install HTML documentation files under builds that set $Config{installhtmldir} (and presumably also create HTML versions of the pod -- which is quite nice actually :-)

http://rt.cpan.org/Ticket/Display.html?id=37727

1.50_01

Version only released as part of bleadperl added in revision #33566. Cygwin related changes by Steve Hay, and others, see

http://perl5.git.perl.org/perl.git/commit/038ae9a45711aea142f721498a4a61353b40e4e4

and discussion at

http://www.xray.mpe.mpg.de/mailing-lists/perl5-porters/2008-03/msg00056.html

1.50

Previous patches to _have_write_access() were causing problems on Cygwin. So now we skip using POSIX::access under cygwin. Also added some =pod directives to make my favorite editor highlight the pod properly.
Turns out that the new can_write_dir.t doesn't work properly under root as root can read the files regardless as to their mode. So we skip those tests when the effective UID is 0 indicating root.

We were getting N/A test results from CPAN testers due to the presence of Config in the prequisites list. This has been corrected.

Also it was pointed out that EU_ALWAYC_COPY did not follow the naming convention of other ExtUtils::Install environment variables. It has been renamed EU_INSTALL_ALWAYC_COPY. Support remains for the original deprecated environment variable but it will be removed in 1.50.

Fix build process so a new META.YML is produced each time. Also add support for a new argument syntax to install() as well as support for always copying installed files even when the old file was identical. This is needed for some bundling mechanisms and can be activated by setting the environment variable EU_ALWAYC_COPY before the install process starts.

Add a newer cleaner interface to install() to allow named parameters and easier external monitoring of what transpired.

Apply patches from Michael G. Schwern (rt #33688, rt #31429, rt #31248) and from Slaven Rezic (rt #33290). Also implemented the suggestion from Schwern about not dieing when failing to remove a shadow file that is later on in INC than the installed version. (rt #2928)

Fix rt.cpan.org #32813, use catpath() to attach volume name to dirs in _can_write_dir() when necessary to avoid cygwin builds doing a hostname lookup.

Install() would always try to uninstall different versions of the
installed files when $uninstall_shadows was given whether it was true or false. This meant "make install" and "Build install" would both always try to uninstall differing versions of the modules. [rt.cpan.org 28672]

1.43 2007-07-21 00:09:24

Turns out some recent version, I haven't figured out which, causes ExtUtils::MakeMaker to fail test. The failure is actually bogus, EUMM is testing for output that we stopped producing except under verbose, however it is a pain, so this release fixes the problem. It also adds a new test file, a stripped down version of ExtUtils::MakeMakers t/basic.t.


This is just 1.41_04 as a production release.

1.41_04 2007-07-07 16:52:40

Reorganize how things work in Install so that we don't try to create directories which exist but are not writable to us when they contain files which we want to install which are writable by us. http://rt.cpan.org/Public/Bug/Display.html?id=25627

Also fix a VMS issue as recommended by Craig Berry. http://rt.cpan.org/Public/Bug/Display.html?id=22157

1.41_03 2007-02-11 15:13

Add an extra_libs parameter to ExtUtils::Installed->new() which allows one to specify additional libs to search for installed modules.

Additional code cleanup and tweaks.

1.41_02 2007-02-03 21:10

Fix bug in _can_write_file().

1.41_01 2007-02-02 21:03

Integrated changes from

1. Steffen Mueller: make ExtUtils::Installed respect PERL5LIB and allow overriding the current config and inc with something else.

2. Michael Schwern (RT#21949, RT#21948): Fix use lib and installdirs and other EU::MakeMaker related changes.
3. ActiveState (RT#5903): Reduce install verbosity.


5. Ken Williams (RT#16225): Make fake uninstall actually fake.

1.41 2006-07-02 16:09

Integrated ExtUtils::Packlist changes from Nicholas Clark to allow for relocatable perls. Bumped version numbers on all files.

1.40 2006-04-30 15:04

Enhanced errorcatching and reporting. Fixed a problem with the INSTALL.SKIP file. Changed the Makefile.PL so that when installing it would not use the same stuff it was replacing. This doesn't affect building with Module::Build currently.

Removed META.yml from distribution.

1.39 2006-04-14 18:53

- Fixed problem with the META.yml file being produced from a Win32 point of view. IMO this is an error/failing in the design of the META.yml process. META.yml should be created on the client side not on the distributor side. Now produces a platform agnostic (ie UNIXy) META.yml.

- Reversed order of change file so newest entries go on top.

1.38 2006-04-02 17:31

- Removed MANIFEST.SKIP support (INSTALL.SKIP still supported), and added support for providing a fallback skip file by using ENV{EU_INSTALL_SITE_SKIP} as a fallback if there is not a distribution specific skip file.

- Released under the ExtUtils-Install-1.38 Name

1.3702 2006-03-19 16:54

- Added support for skipping files during install based on a set of filter rules. If there is an INSTALL.SKIP in the current directory when doing an install then it is loaded, otherwise if there is a MANIFEST.SKIP then it is loaded. If neither exists then no filtration occurs. The env variable EU_INSTALL_IGNORE_SKIP may be set to a true value to override this behaviour.
This means that you can make .svn directories be ignored on install.

1.3701 2006-03-13 20:00

- Integrated patch from Randy Sims.

1. Fixes error during ‘perl Makefile.PL’ because it MakeMaker can’t find the NAME section describing DISTNAME (which has the ‘ex-’ prefix).

2. Win32API::File is recommended on MSWin32 && cygwin.

3. Under Perl5.005, ExtUtils::MM is not present in the version of MakeMaker included. I don’t know what version first includes it. Needs research or better: eliminate need for it.

4. Test::More is bundled with the distro for its test suite. This would be needed on Perl5.005, for example. It was listed as a requirement, but the directory it’s bundled in is not in @INC when prereqs are checked. I removed the prereq from Build.PL & Makefile.PL. Other options: 1) fixup @INC to include t/lib; or 2) unbundle and add back to prereqs.

4. Update t/pod.t t/pod-coverage fixup of @INC so it can find bundled Test::More.

- Fixed pod/coverage related issues.

- When trying to schedule a delete at reboot after renaming a dll out of the way no error occurs if Win32API::File isn’t available. Instead it merely warns that the file should be hand deleted.

- Fixed install at reboot behaviour by making sure the temporar file is writable after install (normally files installed are readonly)

1.37 2006-03-12 23:20

- Refactored reboot support. Integrated changes from Randy Sims in p5p message 4413F4E9.7090802@thepierianspring.org

1.36 2006-03-11 12:42

- Extended Win32 support. Added ExtUtils::Install::MUST_REBOOT to handle such scenario when rebooting.

- Released as ex-ExtUtils-Install by demerphq
- First independent release; Extracted ExtUtils::Install,
  ExtUtils::Installed, & ExtUtils::Packlist from MakeMaker.

- Changed the $VERSION of all modules to the same version number, a
  number higher than all $VERSIONs.

Found in path(s):
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=head1 EXIT CODES

If all your tests passed, Test::Builder will exit with zero (which is
normal). If anything failed it will exit with how many failed. If
you run less (or more) tests than you planned, the missing (or extras)
will be considered failures. If no tests were ever run Test::Builder
will throw a warning and exit with 255. If the test died, even after
having successfully completed all its tests, it will still be
considered a failure and will exit with 255.

So the exit codes are...

  0       all tests successful
  255     test died or all passed but wrong # of tests run
  any other number  how many failed (including missing or extras)

If you fail more than 254 tests, it will be reported as 254.

=head1 THREADS

In perl 5.8.0 and later, Test::Builder is thread-safe. The test
number is shared amongst all threads. This means if one thread sets
the test number using current_test() they will all be effected.

Test::Builder is only thread-aware if threads.pm is loaded I<before>
Test::Builder.

=head1 EXAMPLES

CPAN can provide the best examples. Test::Simple, Test::More,
Test::Exception and Test::Differences all use Test::Builder.

=head1 SEE ALSO
AUTHORS

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bzip2/libbzip2 version 1.0.4 of 20 December 2006
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1.2783 reindex-client 6.8.3

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1.2784 x-text v0.3.5

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- Wichert Akkerman, 2012/02/02

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

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A. HISTORY OF THE SOFTWARE
==========================

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python’s
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.
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cabundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) RCSfile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
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The project repository then had a clean start with some files taken from Python 2.7.1, so definitely all files are under Python License now.

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name: Continuous Integration - License

on:
  push:
    branches: [ master ]
  pull_request:
    branches: [ master ]

jobs:
  check:
    name: Check
    runs-on: ubuntu-latest
    env:
      NG_CLI_ANALYTICS: ci
GO111MODULE: on
GOPROXY: "https://proxy.golang.org"
NODE_OPTIONS: "--max-old-space-size=8192"
TERM: xterm

steps:
- name: Setup Environment
  uses: actions/checkout@v2
  with:
    fetch-depth: 0

- name: Setup NodeJS
  uses: actions/setup-node@v2.1.2
  with:
    node-version: 14.16.1

- name: Cache Node Modules
  uses: actions/cache@v2
  env:
    cache-name: cache-node-modules
  with:
    path: node_modules
    key: ${{ runner.os }}-build-${{ env.cache-name }}-${{ hashFiles('**/package-lock.json') }}

- name: Install Dependencies
  shell: bash
  run: |
    [ ! -d "node_modules" ] &&
    npm ci ||
    node aio/scripts/version.mjs &&
    command -v golangci-lint >/dev/null
    2>&1 ||
    [ curl -sSL https://raw.githubusercontent.com/golangci/golangci-lint/master/install.sh | sh -s -- -b $(go env GOPATH)/bin v1.30.0; ] &&
    go mod download

- name: Check License
  shell: bash
  run: |
    export GOPATH=$(go env GOPATH)/bin
    npm run check:license

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1.2800 golang-mock v1.0.0

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Linus Torvalds

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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
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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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{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getfh, "getfh", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getfsstat, "getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getgppr, "getgppr", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getgppid, "getgppid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpgid, "getpgid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpgpr, "getpgpr", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpgpid, "getpgpid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_getresgid, "getresgid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getresuid, "getresuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getrusage, "getrusage", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsid, "getsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockname, "getsockname", "%s()", 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_lseek, "lseek", NULL, 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_minherit, "minherit", 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, NULL, NULL },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s("%s",%#x,%#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msctl, "msgctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p,%d)", 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", "%s(%d, "%s",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s("%s",%d)", 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 },
GPL License Exception:

Even though U-Boot in general is covered by the GPL-2.0/GPL-2.0+, this does *not* cover the so-called "standalone" applications that use U-Boot services by means of the jump table provided by U-Boot exactly for this purpose - this is merely considered normal use of U-Boot, and does *not* fall under the heading of "derived work".

The header files "include/image.h" and "arch/*/include/asm/u-boot.h" define interfaces to U-Boot. Including these (unmodified) header files in another file is considered normal use of U-Boot, and does *not* fall under the heading of "derived work".

-- Wolfgang Denk
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
+++ debug.c 15 Jan 2008 13:49:25 -0000

Open Source Used In APIC-SE-BATMAN 2.1.1d 37131
void X86EMU_trace_regs (void)
{
    if (DEBUG_TRACE()) {
        x86emu_dump_regs();
    } else {
        x86emu_dump_regs();
    }
}

if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
    printk("%04x:%04x ",M.x86.saved_cs, M.x86.saved_ip);
    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.c	7 Sep 2007 10:01:21 -0000	1.1
+++ ops2.c	20 Mar 2008 15:48:34 -0000	1.3
@@ -149,8 +149,69 @@
target += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", target);
    TRACE_AND_STEP();
    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 ");
    } else {
+        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;
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_EDX = x86emu_bswap(M.x86.R_EDX);
        break;
      case 0xca:
        DECODE_PRINTF("EDX\n");
        M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
        break;
      case 0xcb:
        DECODE_PRINTF("EBX\n");
        M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
        break;
      case 0xcc:
        DECODE_PRINTF("ESI\n");
        M.x86.R_EDI = x86emu_bswap(M.x86.R_EDI);
        break;
      case 0xcd:
        DECODE_PRINTF("EDI\n");
        M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
        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.c 7 Sep 2007 10:01:21 -0000 1.1  
+++ ops.c 20 Mar 2008 16:52:00 -0000  
@@ -1061,7 +1061,11 @@  
    push_word(imm);  
+    if (M.x86.mode & SYSMODE_PREFIX_DATA) {  
+        push_long(imm);  
+    } else {  
+        push_word(imm);  
+    }  
  DECODE_CLEAR_SEGOVR();  
  END_OF_INSTR();  
}
while (count--) {
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
    if (M.x86.intr & INTR_HALTED)
        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* 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) {
            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_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 {
    @ @ -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) {
            /* 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) {
                    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 @@
                val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
            }
        }
    }
}
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;
            if (M.x86.R_CX == 0);
+            if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX = 0;
        } else {
            M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
        } else {
while (count--) {
    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();
inc = 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.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
            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;
if (M.x86.intr & INTR_HALTED)
    break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        while (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
            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;
if (M.x86.intr & INTR_HALTED)
    break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} while (count--) {
    store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
    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) {
+        /* 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_REPNE;
else {
@@ -2951,8 +3003,8 @@
    TRACE_AND_STEP();
    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) {
            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);
            }
@@ -2960,16 +3012,21 @@
            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;
        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) {
+        /* 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);
        }
@@ -2977,10 +3034,15 @@
            if (ACCESS_FLAG(F_ZF))
                break;
        }
-        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;
    }


break;  /* 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("RETF\t");
@@ -3471,10 +3533,10 @@
  RETURN_TRACE("RETF", 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_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("RETF\n");
@@ -3564,10 +3626,10 @@
  RETURN_TRACE("RETF", 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, "FAR");
    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();
-     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();
-     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)      /* (E)CX != 0 */
        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4062,8 +4130,11 @@
ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-     if (M.x86.R_CX != 0) /* CX != 0 */
+     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) /* (E)CX != 0 */
        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4085,8 +4156,10 @@
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();
}
@@ -5013,12 +5093,14 @@
    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 = (s64)(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. */
    if (M.x86.mode & (SYSMODE_PREFIX_DATA)) {
        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;
    } else if (M.x86.mode & SYSMODE_PREFIX_DATA) {
        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;
    } else {
        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. */
    if (M.x86.mode & (SYSMODE_PREFIX_DATA)) {
        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;
    } else if (M.x86.mode & SYSMODE_PREFIX_DATA) {
        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;
    } else {
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
}
}
#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"
#endif

/**
 * @brief Print an outb
 *
 * @param val The value to output.
 * @param addr The address to output to.
 *
 * This function outputs a byte value to the given address.
 */
outb(val, addr);

/**
 * @brief Print an inb
 *
 * @param addr The address to read from.
 *
 * This function reads a byte from the given address and prints the result.
 */
inb(addr);

/**
 * @brief Print an inw
 *
 * @param addr The address to read from.
 *
 * This function reads a word (16-bit) from the given address and prints the result.
 */
inw(addr);

/**
 * @brief Print an inl
 *
 * @param addr The address to read from.
 *
 * This function reads a long (32-bit) from the given address and prints the result.
 */
inl(addr);

/**
 * @brief Print an outb
 *
 * @param val The value to output.
 * @param addr The address to output to.
 *
 * This function outputs a byte value to the given address.
 */
outb(val, addr);
return;

/**
 * @brief Print an inb
 *
 * @param addr The address to read from.
 *
 * This function reads a byte from the given address and prints the result.
 */
inb(addr);

/**
 * @brief Print an inw
 *
 * @param addr The address to read from.
 *
 * This function reads a word (16-bit) from the given address and prints the result.
 */
inw(addr);

/**
 * @brief Print an inl
 *
 * @param addr The address to read from.
 *
 * This function reads a long (32-bit) from the given address and prints the result.
 */
inl(addr);

/**
 * @brief Print an outb
 *
 * @param val The value to output.
 * @param addr The address to output to.
 *
 * This function outputs a byte value to the given address.
 */
outb(val, addr);
return;
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 @@
#ifdef __X86EMU_DEBUG_H
#endif __X86EMU_DEBUG_H

-//#define DEBUG 0
-#undef DEBUG

/="/------------------ 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_TRACECALL_REGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+#define DEBUG_TRACEJMP()      (M.x86.debug & DEBUG_TRACEJMP_F)
+#define DEBUG_TRACEJMP_REGS() (M.x86.debug & DEBUG_TRACEJMP_REGS_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())                                     |
  printk("%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x); |
-# define RETURN_TRACE(n,u,v)                                    |
+# define RETURN_TRACE(u,v,w,x,s)                                    |
if (DEBUG_TRACECALLREGS())									|
  x86emu_dump_regs();                                     |
if (DEBUG_TRACECALL())                                     |
  -printk("%04x:%04x: %s
",u,v,n); |
+printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x); |
+# define JMP_TRACE(u,v,w,x,s)                                 |
+    if (DEBUG_TRACEJMPREGS()) |
+       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

#ifndef 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.h7 Sep 2007 10:01:21 -0000.1
+++ include/x86emu/regs.h15 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 wether 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

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#define SYSMODE_EXTRNINTR 0x20000000
#define SYSMODE_HALTED 0x40000000
@@ -250,7 +253,8 @@
| SYSMODE_SEGOVR_GS      | 
| SYSMODE_SEGOVR_SS      | 
| SYSMODE_PREFIX_DATA    | 
- SYSMODE_PREFIX_ADDR)  
+ SYSMODE_PREFIX_ADDR)   
+ SYSMODE_32BIT_REP)    

#define INTR_SYNCH 0x1
#define INTRASYNCH 0x2
@@ -274,9 +278,9 @@
*/
  int debug;
#endif DEBUG
-int check;
+ int check;
  u16 saved_ip;
  u16 saved_cs;
  int 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 @@
#include <console.h>
#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);
#define __cplusplus
}                /* End of "C" linkage for C++  */
#endif
-
#endif /* __X86EMU_X86EMU_H */

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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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
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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
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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 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
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a) Accompany the work with the complete corresponding
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changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
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) 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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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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1.2811 google-api-go-client v0.1.0

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1.2818 cryptsetup 1.6.7 1.el7
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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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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.2822 mvdan.cc-lint v0.0.0-20170908181259-adc824a0674b

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* /opt/ws_local/PERMITS_SQL/1069262507_1594595098.67/0/spring-aop-5-1-9-release-sources-
jar/org/springframework/aop/framework/AbstractPrototypeBasedTargetSource.java
* /opt/ws_local/PERMITS_SQL/1069262507_1594595098.67/0/spring-aop-5-1-9-release-sources-
jar/org/springframework/aop/framework/AbstractBeanFactoryBasedTargetSource.java
* /opt/ws_local/PERMITS_SQL/1069262507_1594595098.67/0/spring-aop-5-1-9-release-sources-
jar/org/springframework/aop/framework/DefaultAdvisorChainFactory.java
* /opt/ws_local/PERMITS_SQL/1069262507_1594595098.67/0/spring-aop-5-1-9-release-sources-
jar/org/springframework/aop/TrueMethodMatcher.java
* /opt/ws_local/PERMITS_SQL/1069262507_1594595098.67/0/spring-aop-5-1-9-release-sources-
jar/org/springframework/aop/framework/adapter/AdvisorAdapterRegistry.java
* /opt/ws_local/PERMITS_SQL/1069262507_1594595098.67/0/spring-aop-5-1-9-release-sources-
jar/org/springframework/aop/aspectj/annotation/AspectJProxyFactory.java
* /opt/ws_local/PERMITS_SQL/1069262507_1594595098.67/0/spring-aop-5-1-9-release-sources-
jar/org/springframework/aop/framework/DefaultAdvisorChainFactory.java
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1.2845 gson 2.8.5

1.2846 bnclabs-gson v0.0.0-20181107060252-71739fac98d6

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1.2847 x-crypto v0.0.0-20201208171446-5f87f3452ae9

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1.2848 gopkg-in/ldap v2.5.1

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1.2849 cdebconf 0.192

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1.2850 gofrs-uuid v3.2.0+incompatible

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Found in path(s):
* /opt/cola/permits/1110783928_1606854170.13/0/kjd-idna-v2-9-0-g1233a73-1-tar-gz/kjd-idna-8a6016e/LICENSE.rst

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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.
---

import io, sys
from setuptools import setup

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,7):
        raise SystemExit("Sorry, Python 2.7 or newer required")

    package_data = {}
    exec(open('idna/package_data.py').read(), package_data)

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
            'Intended Audience :: Developers',
            'Intended Audience :: System Administrators',
            'License :: OSI Approved :: BSD License',
            'Operating System :: OS Independent',
            'Programming Language :: Python',
            'Programming Language :: Python :: 2',
            'Programming Language :: Python :: 2.7',
            'Programming Language :: Python :: 3',
            'Programming Language :: Python :: 3.4',
            'Programming Language :: Python :: 3.5',
            'Programming Language :: Python :: 3.6',
            'Programming Language :: Python :: 3.7',
            'Programming Language :: Python :: 3.8',
            'Programming Language :: Python :: Implementation :: CPython',
            'Programming Language :: Python :: Implementation :: PyPy',
            'Topic :: Internet :: Name Service (DNS)',
            'Topic :: Software Development :: Libraries :: Python Modules',
            'Topic :: Utilities',
        ],
        'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
        'test_suite': 'tests',
    }

    setup(**arguments)
if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1110783928_1606854170.13/0/kjd-idna-v2-9-0-g1233a73-1-tar-gz/kjd-idna-8a6016e/setup.py

1.2860 activation-api 1.2.1

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1.2861 perl-unicode-collate 1.25-2.el8

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---

abstract: 'Unicode Collation Algorithm'
author:
  - 'SADAHIRO Tomoyuki <SADAHIRO@cpan.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: Unicode-Collate
no_index:
Open Source Used In APIC-SE-BATMAN 2.1.1d 37647

directory:
  - t
  - inc
requires:
  Carp: '0'
  File::Spec: '0'
  XSLoader: '0'
  constant: '0'
  strict: '0'
  warnings: '0'
  version: '1.25'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

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=head1 NAME

Unicode::Collate - Unicode Collation Algorithm

=head1 SYNOPSIS

use Unicode::Collate;

# construct
$Collator = Unicode::Collate->new(%tailoring);

# sort
@sorted = $Collator->sort(@not_sorted);

# compare
$result = $Collator->cmp($a, $b); # returns 1, 0, or -1.

B<Note:> Strings in C:@not_sorted>, C:$a> and C:$b> are interpreted according to Perl's Unicode support. See L</perlunicode>, L</perluniintro>, L</perlunitut>, L</perlunifaq>, L</utf8>
Otherwise you can use C</preprocess> or should decode them before.

=head1 DESCRIPTION

This module is an implementation of Unicode Technical Standard #10
(a.k.a. UTS #10) - Unicode Collation Algorithm (a.k.a. UCA).

=head2 Constructor and Tailoring

The C<new> method returns a collator object. If new() is called
with no parameters, the collator should do the default collation.

$Collator = Unicode::Collate->new(
    UCA_Version => $UCA_Version,
    alternate => $alternate, # alias for 'variable'
    backwards => $levelNumber, # or \@levelNumbers
    entry => $element,
    hangul_terminator => $term_primary_weight,
    highestFFFF => $bool,
    identical => $bool,
    ignoreName => qr/$ignoreName/,
    ignoreChar => qr/$ignoreChar/,
    ignore_level2 => $bool,
    katakana_before_hiragana => $bool,
    level => $collationLevel,
    long_contraction => $bool,
    minimalFFFE => $bool,
    normalization => $normalization_form,
    overrideCJK => \&overrideCJK,
    overrideHangul => \&overrideHangul,
    preprocess => \&preprocess,
    rearrange => \@charList,
    rewrite => \&rewrite,
    suppress => \@charList,
    table => $filename,
    undefName => qr/$undefName/,
    undefChar => qr/$undefChar/,
    upper_before_lower => $bool,
    variable => $variable,
);

=over 4

=item UCA_Version

If the revision (previously "tracking version") number of UCA is given, behavior of that revision is emulated on collating. If omitted, the return value of C<UCA_Version()> is used.

The following revisions are supported. The default is 34.

<table>
<thead>
<tr>
<th>UCA</th>
<th>Unicode Standard</th>
<th>DUCET (@version)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>3.1</td>
<td>3.0.1 (3.0.1d9)</td>
</tr>
<tr>
<td>9</td>
<td>3.1 with Corrigendum 3</td>
<td>3.1.1 (3.1.1)</td>
</tr>
<tr>
<td>11</td>
<td>4.0</td>
<td>4.0.0 (4.0.0)</td>
</tr>
<tr>
<td>14</td>
<td>4.1.0</td>
<td>4.1.0 (4.1.0)</td>
</tr>
<tr>
<td>16</td>
<td>5.0</td>
<td>5.0.0 (5.0.0)</td>
</tr>
<tr>
<td>Version</td>
<td>C&lt;variable&gt;</td>
<td>C&lt;UCA_Version&gt;</td>
</tr>
<tr>
<td>---------</td>
<td>------------</td>
<td>----------------</td>
</tr>
<tr>
<td>5.1.0</td>
<td>5.1.0 (5.1.0)</td>
<td>22</td>
</tr>
<tr>
<td>5.2.0</td>
<td>5.2.0 (5.2.0)</td>
<td>24</td>
</tr>
<tr>
<td>6.0.0</td>
<td>6.0.0 (6.0.0)</td>
<td>26</td>
</tr>
<tr>
<td>6.1.0</td>
<td>6.1.0 (6.1.0)</td>
<td>28</td>
</tr>
<tr>
<td>6.2.0</td>
<td>6.2.0 (6.2.0)</td>
<td>30</td>
</tr>
<tr>
<td>6.3.0</td>
<td>6.3.0 (6.3.0)</td>
<td>32</td>
</tr>
<tr>
<td>7.0.0</td>
<td>7.0.0 (7.0.0)</td>
<td>34</td>
</tr>
<tr>
<td>8.0.0</td>
<td>8.0.0 (8.0.0)</td>
<td>36</td>
</tr>
<tr>
<td>9.0.0</td>
<td>9.0.0 (9.0.0)</td>
<td></td>
</tr>
<tr>
<td>10.0.0</td>
<td>10.0.0(10.0.0)</td>
<td></td>
</tr>
</tbody>
</table>

* See below for C<long_contraction> with C<UCA_Version> 22 and 24.

* Noncharacters (e.g. U+FFFF) are not ignored, and can be overridden since C<UCA_Version> 22.

* Out-of-range codepoints (greater than U+10FFFF) are not ignored, and can be overridden since C<UCA_Version> 22.

* Fully ignorable characters were ignored, and would not interrupt contractions with C<UCA_Version> 9 and 11.

* Treatment of ignorables after variables and some behaviors were changed at C<UCA_Version> 9.

* Characters regarded as CJK unified ideographs (cf. C<overrideCJK>) depend on C<UCA_Version>.

* Many hangul jamo are assigned at C<UCA_Version> 20, that will affect C<hangul_terminator>.

=item alternate

-- see 3.2.2 Alternate Weighting, version 8 of UTS #10

For backward compatibility, C<alternate> (old name) can be used as an alias for C<variable>.

=item backwards

-- see 3.4 Backward Accents, UTS #10.

  backwards => $levelNumber or \@levelNumbers

Weights in reverse order; ex. level 2 (diacritic ordering) in French. If omitted (or C<$levelNumber> is C<undef> or C<\@levelNumbers> is C<[]>), forwards at all the levels.
--- see 5 Tailoring; 9.1 Allkeys File Format, UTS #10.

If the same character (or a sequence of characters) exists in the collation element table through `table`, mapping to collation elements is overridden.
If it does not exist, the mapping is defined additionally.

```plaintext
entry => <<'ENTRY', # for DUCET v4.0.0 (allkeys-4.0.0.txt)
0063 0068 ; [.0E6A.0020.0002.0063] # ch
0043 0068 ; [.0E6A.0020.0007.0043] # Ch
006C 006C ; [.0F4C.0020.0002.006C] # ll
004C 006C ; [.0F4C.0020.0007.004C] # Ll
00F1      ; [.0F7B.0020.0002.00F1] # n-tilde
006E 0303 ; [.0F7B.0020.0002.006E] # n-tilde
00D1      ; [.0F7B.0020.0008.00D1] # N-tilde
004E 0303 ; [.0F7B.0020.0008.004E] # N-tilde
ENTRY
```

```plaintext
entry => <<'ENTRY', # for DUCET v4.0.0 (allkeys-4.0.0.txt)
00E6 ; [.0E33.0020.0002.00E6][.0E8B.0020.0002.00E6] # ae ligature as <a><e>
00C6 ; [.0E33.0020.0008.00C6][.0E8B.0020.0008.00C6] # A<e> ligature as <A><e>
ENTRY
```

B<NOTE:> The code point in the UCA file format (before `;`) must be a Unicode code point (defined as hexadecimal), but not a native code point.
So C<0063> must always denote C<U+0063>, but not a character of C"\x63".

Weighting may vary depending on collation element table.
So ensure the weights defined in C<entry> will be consistent with those in the collation element table loaded via C<table>.

In DUCET v4.0.0, primary weight of C<C> is C<0E60> and that of C<D> is C<0E6D>. So setting primary weight of C<CH> to C<0E6A> (as a value between C<0E60> and C<0E6D>) makes ordering as C<C> E<lt> CH E<lt> D>.
Exactly speaking DUCET already has some characters between C<C> and C<D>:
C<small capital C> (C<U+1D04>) with primary weight C<0E64>,
C<c-hook/C-hook> (C<U+0188/U+0187>) with C<0E65>,
and C<c-curl> (C<U+0255>) with C<0E69>.
Then primary weight C<0E6A> for C<CH> makes C<CH> ordered between C<c-curl> and C<D>.
If a true value is given (non-zero but should be positive),
it will be added as a terminator primary weight to the end of
every standard Hangul syllable. Secondary and any higher weights
for terminator are set to zero.
If the value is false or C<hangul_terminator> key does not exist,
insertion of terminator weights will not be performed.

Boundaries of Hangul syllables are determined
according to conjoining Jamo behavior in F<the Unicode Standard>
and F<HangulSyllableType.txt>.

B<Implementation Note:>
(1) For expansion mapping (Unicode character mapped
to a sequence of collation elements), a terminator will not be added
between collation elements, even if Hangul syllable boundary exists there.
Addition of terminator is restricted to the next position
to the last collation element.

(2) Non-conjoining Hangul letters
(Compatibility Jamo, halfwidth Jamo, and enclosed letters) are not
automatically terminated with a terminator primary weight.
These characters may need terminator included in a collation element
beforehand.

-- see 2.4 Tailored noncharacter weights, UTS #35 (LDML) Part 5: Collation.

If the parameter is made true, C<U+FFFF> has a highest primary weight.
When a boolean of C<$coll-E<gt>ge($str, "abc")> and
C<$coll-E<gt>le($str, "abc\x{FFFF}\")> is true, it is expected that C<$str>
begins with C"abc"., or another primary equivalent.
C<$str> may be C"abed", C"abc012"., but should not include C<U+FFFF>
such as C"abc\x{FFFF}xyz".

C<$coll-E<gt>le($str, "abc\x{FFFF}\")> works like C<$coll-E<gt>lt($str, "abd")>
almost, but the latter has a problem that you should know which letter is
next to C"ch". For a certain language where C"ch" as the next letter,
C"abch" is greater than C"abc\x{FFFF}"., but less than C""abd".

Note:
This is equivalent to C<(entry =E<gt> 'FFFF ; [.FFFE.0020.0005.FFFF])>.  
Any other character than C<U+FFFF> can be tailored by C<entry>.  

-- see 7.1.4 Trailing Weights, UTS #10.
identical

-- see A.3 Deterministic Comparison, UTS #10.

By default, strings whose weights are equal should be equal, even though their code points are not equal. Completely ignorable characters are ignored.

If the parameter is made true, a final, tie-breaking level is used. If no difference of weights is found after the comparison through all the level specified by C<level>, the comparison with code points will be performed. For the tie-breaking comparison, the sort key has code points of the original string appended. Completely ignorable characters are not ignored.

If C<preprocess> and/or C<normalization> is applied, the code points of the string after them (in NFD by default) are used.

ignoreChar

ignoreName

-- see 3.6 Variable Weighting, UTS #10.

Makes the entry in the table completely ignorable; i.e. as if the weights were zero at all level.

Through C<ignoreChar>, any character matching C<qr/$ignoreChar/> will be ignored. Through C<ignoreName>, any character whose name (given in the C<table> file as a comment) matches C<qr/$ignoreName/> will be ignored.

E.g. when 'a' and 'e' are ignorable, 'element' is equal to 'lament' (or 'lmnt').

ignore_level2

-- see 5.1 Parametric Tailoring, UTS #10.

By default, case-sensitive comparison (that is level 3 difference) won't ignore accents (that is level 2 difference).

If the parameter is made true, accents (and other primary ignorable characters) are ignored, even though cases are taken into account.

B<NOTE>: C<level> should be 3 or greater.
=item katakana_before_hiragana

-- see 7.2 Tertiary Weight Table, UTS #10.

By default, hiragana is before katakana.
If the parameter is made true, this is reversed.

B<NOTE>: This parameter simplistically assumes that any hiragana/katakana
distinctions must occur in level 3, and their weights at level 3 must be
same as those mentioned in 7.3.1, UTS #10.
If you define your collation elements which violate this requirement,
this parameter does not work validly.

=item level

-- see 4.3 Form Sort Key, UTS #10.

Set the maximum level.
Any higher levels than the specified one are ignored.

Level 1: alphabetic ordering
Level 2: diacritic ordering
Level 3: case ordering
Level 4: tie-breaking (e.g. in the case when variable is 'shifted')

ex.level => 2,

If omitted, the maximum is the 4th.

B<NOTE>: The DUCET includes weights over 0xFFFF at the 4th level.
But this module only uses weights within 0xFFFF.
When C<variable> is 'blanked' or 'non-ignorable' (other than 'shifted'
and 'shift-trimmed'), the level 4 may be unreliable.

See also C<identical>.

=item long_contraction

-- see 3.8.2 Well-Formedness of the DUCET, 4.2 Produce Array, UTS #10.

If the parameter is made true, for a contraction with three or more
characters (here nicknamed "long contraction"), initial substrings
will be handled.
For example, a contraction ABC, where A is a starter, and B and C
are non-starters (character with non-zero combining character class),
will be detected even if there is not AB as a contraction.

B<Default>: Usually false.
If C<UCA_Version> is 22 or 24, and the value of C<long_contraction>
is not specified in C<new>(), a true value is set implicitly. This is a workaround to pass Conformance Tests for Unicode 6.0.0 and 6.1.0.

C<change()> handles C<long_contraction> explicitly only.
If C<long_contraction> is not specified in C<change>(), even though C<UCA_Version> is changed, C<long_contraction> will not be changed.

B<Limitation:> Scanning non-starters is one-way (no back tracking).
If AB is found but not ABC is not found, other long contraction where the first character is A and the second is not B may not be found.

Under C<(normalization =E<gt> undef)>, detection step of discontiguous contractions will be skipped.

B<Note:> The following contractions in DUCET are not considered in steps S2.1.1 to S2.1.3, where they are discontiguous.

0FB2 0F71 0F80 (TIBETAN VOWEL SIGN VOCALIC RR)
0FB3 0F71 0F80 (TIBETAN VOWEL SIGN VOCALIC LL)

For example C<TIBETAN VOWEL SIGN VOCALIC RR> with C<COMBINING TILDE OVERLAY> (C<U+0344>) is C<0FB2 0344 0F71 0F80> in NFD. In this case C<0FB2 0F80> (C<TIBETAN VOWEL SIGN VOCALIC R>) is detected, instead of C<0FB2 0F71 0F80>.
Inserted C<0344> makes C<0FB2 0F71 0F80> discontiguous and lack of contraction C<0FB2 0F71> prohibits C<0FB2 0F71 0F80> from being detected.

=item minimalFFFE
-- see 1.1.1 U+FFFE, UTS #35 (LDML) Part 5: Collation.

If the parameter is made true, C<U+FFFE> has a minimal primary weight. The comparison between C"$a1$FFFE$a2" and C"$b1$FFFE$b2" first compares C<$a1> and C<$b1> at level 1, and then C<$a2> and C<$b2> at level 1, as followed.

"ab$FFFEa"
"Ab$FFFEa"
"ab$FFFEc"
"Ab$FFFEc"
"ab$FFFExyz"
"abc$FFFEdef"
"abc$FFFExyz"
"aBc$FFFExyz"
"abcX$FFFEdef"
"abcX$FFFExyz"
"b$FFFEaaa"
"\x{FFFE}a"

Note:
This is equivalent to C<entry =gt> 'FFFE : [.0001.0020.0005.FFFE]'>.
Any other character than C<U+FFFE> can be tailored by C<entry>.

=item normalization

-- see 4.1 Normalize, UTS #10.

If specified, strings are normalized before preparation of sort keys
(the normalization is executed after preprocess).

A form name C<Unicode::Normalize::normalize()> accepts will be applied
as C<$normalization_form>.
Acceptable names include C<'NFD'>, C<'NFC'>, C<'NFKD'>, and C<'NFKC'>.
See C<Unicode::Normalize::normalize()> for detail.
If omitted, C<'NFD'> is used.

C<normalization> is performed after C<preprocess> (if defined).

Furthermore, special values, C<undef> and C<"prenormalized">, can be used,
though they are not concerned with C<Unicode::Normalize::normalize()>.

If C<undef> (not a string C<"undef">) is passed explicitly
as the value for this key,
any normalization is not carried out (this may make tailoring easier
if any normalization is not desired). Under C<normalization =gt> undef>,
only contiguous contractions are resolved;
e.g. even if C<A-ring> (and C<A-ring-cedilla>) is ordered after C<Z>,
C<A-cedilla-ring> would be primary equal to C<A>.

In this point,
C<normalization =gt> undef, preprocess =gt> sub { NFD(shift) })>
B<is not> equivalent to C<normalization =gt> 'NFD'>.

In the case of C<normalization =gt> "prenormalized">,
any normalization is not performed, but
discontiguous contractions with combining characters are performed.
Therefore
C<normalization =gt> 'prenormalized', preprocess =gt> sub { NFD(shift) })>
B<is> equivalent to C<normalization =gt> 'NFD'>.
If source strings are finely prenormalized,
C<normalization =gt> 'prenormalized'> may save time for normalization.

Except C<normalization =gt> undef>,
B<Unicode::Normalize> is required (see also B<CAVEAT>).

=item overrideCJK
By default, CJK unified ideographs are ordered in Unicode codepoint order, but those in the CJK Unified Ideographs block are less than those in the CJK Unified Ideographs Extension A etc.

In the CJK Unified Ideographs block:
U+4E00..U+9FA5 if UCA_Version is 8, 9 or 11.
U+4E00..U+9FBB if UCA_Version is 14 or 16.
U+4E00..U+9FC3 if UCA_Version is 18.
U+4E00..U+9FCB if UCA_Version is 20 or 22.
U+4E00..U+9FCC if UCA_Version is 24 to 30.
U+4E00..U+9FD5 if UCA_Version is 32 or 34.
U+4E00..U+9FEA if UCA_Version is 36.

In the CJK Unified Ideographs Extension blocks:
Ext.A (U+3400..U+4DB5) and Ext.B (U+20000..U+2A6D6) in any UCA_Version.
Ext.C (U+2A700..U+2B734) if UCA_Version is 20 or later.
Ext.D (U+2B740..U+2B81D) if UCA_Version is 22 or later.
Ext.E (U+2B820..U+2CEA1) if UCA_Version is 32 or later.
Ext.F (U+2CEB0..U+2EBE0) if UCA_Version is 36.

Through C<overrideCJK>, ordering of CJK unified ideographs (including extensions) can be overridden.

ex. CJK unified ideographs in the JIS code point order.

```
overrideCJK => sub {
    my $u = shift;             # get a Unicode codepoint
    my $b = pack('n', $u);     # to UTF-16BE
    my $s = your_unicode_to_sjis_converter($b); # convert
    my $n = unpack('n', $s);   # convert sjis to short
    [ $n, 0x20, 0x2, $u ];     # return the collation element
},
```

The return value may be an arrayref of 1st to 4th weights as shown above. The return value may be an integer as the primary weight as shown below. If C<undef> is returned, the default derived collation element will be used.

```
overrideCJK => sub {
    my $u = shift;             # get a Unicode codepoint
    my $b = pack('n', $u);     # to UTF-16BE
    my $s = your_unicode_to_sjis_converter($b); # convert
    my $n = unpack('n', $s);   # convert sjis to short
    return $n;                # return the primary weight
},
```

---

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The return value may be a list containing zero or more of an arrayref, an integer, or C<undef>.

ex. ignores all CJK unified ideographs.

overrideCJK => sub {}, # CODEREF returning empty list

# where ->eq("Pe\x{4E00}\r", "Perl") is true
# as U+4E00 is a CJK unified ideograph and to be ignorable.

If a false value (including C<undef>) is passed, C<overrideCJK> has no effect.
C<$Collator-E<gt>change(overrideCJK =E<gt> 0)> resets the old one.

But assignment of weight for CJK unified ideographs in C<table> or C<entry> is still valid.
If C<undef> is passed explicitly as the value for this key, weights for CJK unified ideographs are treated as undefined.
However when C<UCA_Version> E<gt> 8, C<(overrideCJK =E<gt> undef)> has no special meaning.

B<Note:> In addition to them, 12 CJK compatibility ideographs (C<U+FA0E>, C<U+FA0F>, C<U+FA11>, C<U+FA13>, C<U+FA14>, C<U+FA1F>, C<U+FA21>, C<U+FA23>, C<U+FA24>, C<U+FA27>, C<U+FA28>, C<U+FA29>) are also treated as CJK unified ideographs. But they can't be overridden via C<overrideCJK> when you use DUCET, as the table includes weights for them. C<table> or C<entry> has priority over C<overrideCJK>.

=item overrideHangul

-- see 7.1 Derived Collation Elements, UTS #10.

By default, Hangul syllables are decomposed into Hangul Jamo, even if C<(normalization =E<gt> undef)>.
But the mapping of Hangul syllables may be overridden.

This parameter works like C<overrideCJK>, so see there for examples.

If you want to override the mapping of Hangul syllables, NFD and NFKD are not appropriate, since NFD and NFKD will decompose Hangul syllables before overriding. FCD may decompose Hangul syllables as the case may be.

If a false value (but not C<undef>) is passed, C<overrideHangul> has no effect.
C<$Collator-E<gt>change(overrideHangul =E<gt> 0)> resets the old one.
If C<undef> is passed explicitly as the value for this key,
weight for Hangul syllables is treated as undefined
without decomposition into Hangul Jamo.
But definition of weight for Hangul syllables
in C<table> or C<entry> is still valid.
=item overrideOut
-- see 7.1.1 Handling Ill-Formed Code Unit Sequences, UTS #10.
Perl seems to allow out-of-range values (greater than 0x10FFFF).
By default, out-of-range values are replaced with C<U+FFFD>
(REPLACEMENT CHARACTER) when C<UCA_Version> E<gt>= 22,
or ignored when C<UCA_Version> E<lt>= 20.
When C<UCA_Version> E<gt>= 22, the weights of out-of-range values
can be overridden. Though C<table> or C<entry> are available for them,
out-of-range values are too many.
C<overrideOut> can perform it algorithmically.
This parameter works like C<overrideCJK>, so see there for examples.
ex. ignores all out-of-range values.
overrideOut => sub {()}, # CODEREF returning empty list
If a false value (including C<undef>) is passed, C<overrideOut>
has no effect.
C<$Collator-E<gt>change(overrideOut =E<gt> 0)> resets the old one.
B<NOTE ABOUT U+FFFD:>
UCA recommends that out-of-range values should not be ignored for security
reasons. Say, C<"pe\x{110000}rl"> should not be equal to C<"perl">.
However, C<U+FFFD> is wrongly mapped to a variable collation element
in DUCET for Unicode 6.0.0 to 6.2.0, that means out-of-range values will be
ignored when C<variable> isn't C<Non-ignorable>.
The mapping of C<U+FFFD> is corrected in Unicode 6.3.0.
see L<http://www.unicode.org/reports/tr10/tr10-28.html#Trailing_Weights>
(7.1.4 Trailing Weights). Such a correction is reproduced by this.
overrideOut => sub { 0xFFFD }, # CODEREF returning a very large integer
This workaround is unnecessary since Unicode 6.3.0.
=item preprocess

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If specified, the coderef is used to preprocess each string before the formation of sort keys.

ex. dropping English articles, such as "a" or "the".
Then, "the pen" is before "a pencil".

```
preprocess => sub {
  my $str = shift;
  $str =~ s/(?:an?|the)/\s+//gi;
  return $str;
},
```

C<preprocess> is performed before C<normalization> (if defined).

ex. decoding strings in a legacy encoding such as shift-jis:

```
$sjis_collator = Unicode::Collate->new(
  preprocess => \&your_shiftjis_to_unicode_decoder,
);   @result = $sjis_collator->sort(@shiftjis_strings);
```

B<Note:> Strings returned from the coderef will be interpreted according to Perl's Unicode support. See L<perlunicode>, L<perluniintro>, L<perlunitut>, L<perlunifaq>, L<utf8>.

=item rearrange

-- see 3.5 Rearrangement, UTS #10.

Characters that are not coded in logical order and to be rearranged.
If C<UCA_Version> is equal to or less than 11, default is:

```
rearrange => [ 0x0E40..0x0E44, 0x0EC0..0x0EC4 ],
```

If you want to disallow any rearrangement, pass C<undef> or C<[]>
(a reference to empty list) as the value for this key.

If C<UCA_Version> is equal to or greater than 14, default is C<[]>
(i.e. no rearrangement).

B<According to the version 9 of UCA, this parameter shall not be used; but it is not warned at present.>

=item rewrite

If specified, the coderef is used to rewrite lines in C<table> or C<entry>.
The coderef will get each line, and then should return a rewritten line according to the UCA file format.
If the coderef returns an empty line, the line will be skipped.

e.g. any primary ignorable characters into tertiary ignorable:

    rewrite => sub {
        my $line = shift;
        $line =~ s/[.0000..{4}\.{4}\./[.0000.0000.0000./g;
        return $line;
    }.

This example shows rewriting weights. C<rewrite> is allowed to affect code points, weights, and the name.

B<NOTE>: C<table> is available to use another table file; preparing a modified table once would be more efficient than rewriting lines on reading an unmodified table every time.

=item suppress

-- see 3.12 Special-Purpose Commands, UTS #35 (LDML) Part 5: Collation.

Contractions beginning with the specified characters are suppressed, even if those contractions are defined in C<table>.

An example for Russian and some languages using the Cyrillic script:

    suppress => [0x0400..0x0417, 0x041A..0x0437, 0x043A..0x045F],

where 0x0400 stands for C<U+0400>, CYRILLIC CAPITAL LETTER IE WITH GRAVE.

B<NOTE>: Contractions via C<entry> will not be suppressed.

=item table

-- see 3.8 Default Unicode Collation Element Table, UTS #10.

You can use another collation element table if desired.

The table file should locate in the F<Unicode/Collate> directory on C<@INC>. Say, if the filename is F<Foo.txt>, the table file is searched as F<Unicode/Collate/Foo.txt> in C<@INC>.

By default, F<allkeys.txt> (as the filename of DUCET) is used. If you will prepare your own table file, any name other than F<allkeys.txt> may be better to avoid namespace conflict.
When XSUB is used, the DUCET is compiled on building this module, and it may save time at the run time.
Explicit saying C<(table =E<gt> 'allkeys.txt')>, or using another table, or using C<ignoreChar>, C<ignoreName>, C<undefChar>, C<undefName> or C<rewrite> will prevent this module from using the compiled DUCET.

If C<undefined> is passed explicitly as the value for this key, no file is read (but you can define collation elements via C<entry>).

A typical way to define a collation element table without any file of table:

```
$onlyABC = Unicode::Collate->new(
    table => undef,
    entry => << 'ENTRIES',
    0061 ; [0101.0020.0002.0061] # LATIN SMALL LETTER A
    0041 ; [0101.0020.0008.0041] # LATIN CAPITAL LETTER A
    0062 ; [0102.0020.0002.0062] # LATIN SMALL LETTER B
    0042 ; [0102.0020.0008.0042] # LATIN CAPITAL LETTER B
    0063 ; [0103.0020.0002.0063] # LATIN SMALL LETTER C
    0043 ; [0103.0020.0008.0043] # LATIN CAPITAL LETTER C
    ENTRIES
    );
```

If C<ignoreName> or C<undefName> is used, character names should be specified as a comment (following C<#>) on each line.

=item undefChar

=item undefName

-- see 6.3.3 Reducing the Repertoire, UTS #10.

Undefines the collation element as if it were unassigned in the C<table>. This reduces the size of the table. If an unassigned character appears in the string to be collated, the sort key is made from its codepoint as a single-character collation element, as it is greater than any other assigned collation elements (in the codepoint order among the unassigned characters). But, it’d be better to ignore characters unfamiliar to you and maybe never used.

Through C<undefChar>, any character matching C<qr/$undefChar/> will be undefined. Through C<undefName>, any character whose name (given in the C<table> file as a comment) matches C<qr/$undefName/> will be undefined.
ex. Collation weights for beyond-BMP characters are not stored in object:

    undefChar => qr/[^\0-\x{fffd}]/,

=item upper_before_lower

-- see 6.6 Case Comparisons, UTS #10.

By default, lowercase is before uppercase.
If the parameter is made true, this is reversed.

B<NOTE>: This parameter simplistically assumes that any lowercase/uppercase
distinctions must occur in level 3, and their weights at level 3 must be
same as those mentioned in 7.3.1, UTS #10.
If you define your collation elements which differs from this requirement,
this parameter doesn't work validly.

=item variable

-- see 3.6 Variable Weighting, UTS #10.

This key allows for variable weighting of variable collation elements,
which are marked with an ASTERISK in the table
(NOTE: Many punctuation marks and symbols are variable in F<allkeys.txt>).

    variable => 'blanked', 'non-ignorable', 'shifted', or 'shift-trimmed'.

These names are case-insensitive.
By default (if specification is omitted), 'shifted' is adopted.

'Blanked' Variable elements are made ignorable at levels 1 through 3;
considered at the 4th level.

'Non-Ignorable' Variable elements are not reset to ignorable.

'Shifted' Variable elements are made ignorable at levels 1 through 3
their level 4 weight is replaced by the old level 1 weight.
Level 4 weight for Non-Variable elements is 0xFFFF.

'Shift-Trimmed' Same as 'shifted', but all FFFF's at the 4th level
are trimmed.

=back

=head2 Methods for Collation

=over 4
Sorts a list of strings.

Returns 1 (when C<$a>$ is greater than C<$b>$)
or 0 (when C<$a>$ is equal to C<$b>$)
or -1 (when C<$a>$ is less than C<$b>$).

They work like the same name operators as theirs.

eq : whether C<$a>$ is equal to C$b$.
ne : whether C<$a>$ is not equal to C<$b$.
lt : whether C<$a>$ is less than C<$b$.
le : whether C<$a>$ is less than C$b$ or equal to C<$b$.
gt : whether C<$a>$ is greater than C$b$.
ge : whether C<$a>$ is greater than C$b$ or equal to C$b$.

Returns a sort key.

You compare the sort keys using a binary comparison
and get the result of the comparison of the strings using UCA.

$Collator->getSortKey($a) cmp $Collator->getSortKey($b)

is equivalent to

$Collator->cmp($a, $b)

Returns a sort key form.
Converts a sorting key into its representation form.
If C<\text{UCA\_Version}> is 8, the output is slightly different.

use Unicode::Collate;
my $c = Unicode::Collate\->new();
print $c\->viewSortKey("Perl"),\"n\):

# output:
# [0B67 0A65 0B7F 0B03 | 0020 0020 0020 0020 | 0008 0002 0002 0002 | FFFF FFFF FFFF FFFF]
# Level 1               Level 2               Level 3               Level 4

=head2 Methods for Searching

The C<match>, C<gmatch>, C<subst>, C<gsubst> methods work
like C<m//>, C<m//g>, C<s///>, C<s///g>, respectively,
but they are not aware of any pattern, but only a literal substring.

\textbf{DISCLAIMER:} If C<preprocess> or C<normalization> parameter is true
for C<$Collator>, calling these methods (C<index>, C<match>, C<gmatch>,
C<subst>, C<gsubst>) is croaked, as the position and the length might
differ from those on the specified string.

C<rearrange> and C<hangul_terminator> parameters are neglected.
C<katakana_before_hiragana> and C<upper_before_lower> don't affect
matching and searching, as it doesn't matter whether greater or less.

=item C<$position = $Collator\->index($string, $substring\[, $position\])>
=item C<($position, $length) = $Collator\->index($string, $substring\[, $position\])>

If C<$substring> matches a part of C<$string>, returns
the position of the first occurrence of the matching part in scalar context;
in list context, returns a two-element list of
the position and the length of the matching part.

If C<$substring> does not match any part of C<$string>,
returns C<-1> in scalar context and
an empty list in list context.

e.g. when the content of C<$str> is C<"Ich muE<szlig>C< studieren Perl.">,
you say the following where C<$sub> is C<"M">E<uuml>C<SS">,

my $Collator = Unicode::Collate\->new( normalization => undef, level => 1 );
# (normalization => undef) is REQUIRED.
my $match;
if (my(($pos,$len) = $Collator->index($str, $sub)) {  
   $match = substr($str, $pos, $len);
}

and get C<mu>E<szlig>C> in C$match>, since C<mu>E<szlig>C> is primary equal to C"M>E<uuml>C<SS".>

=item C<$match_ref = $Collator->match($string, $substring)>

=item C<($match) = $Collator->match($string, $substring)>

If C<$substring> matches a part of C$string>, in scalar context, returns B<a reference to> the first occurrence of the matching part
(C<$match_ref> is always true if matches, since every reference is B<true>);
in list context, returns the first occurrence of the matching part.

If C<$substring> does not match any part of C$string>,
returns C<undef> in scalar context and
an empty list in list context.

e.g.

   if ($match_ref = $Collator->match($str, $sub)) { # scalar context
      print "matches \[$match_ref\].\n";
   } else {
      print "doesn’t match.\n";
   }

   or

   if (($match) = $Collator->match($str, $sub)) { # list context
      print "matches \[$match\].\n";
   } else {
      print "doesn’t match.\n";
   }

=item C:@match = $Collator->gmatch($string, $substring)>

If C<$substring> matches a part of C$string>, returns all the matching parts (or matching count in scalar context).

If C<$substring> does not match any part of C$string>, returns an empty list.

=item C<$count = $Collator->subst($string, $substring, $replacement)>
If C<$substring> matches a part of C<$string>,
the first occurrence of the matching part is replaced by C<$replacement>
(C<$string> is modified) and C<$count> (always equals to C<1>) is returned.

C<$replacement> can be a C<CODEREF>,
taking the matching part as an argument,
and returning a string to replace the matching part
(a bit similar to C<s/(..)/$coderef-$gt($1)/e>).

=item C<$count = $Collator-$gt>gsubst($string, $substring, $replacement)>

If C<$substring> matches a part of C<$string>,
all the occurrences of the matching part are replaced by C<$replacement>
(C<$string> is modified) and C<$count> is returned.

C<$replacement> can be a C<CODEREF>,
taking the matching part as an argument,
and returning a string to replace the matching part
(a bit similar to C<s/(..)/$coderef-$gt($1)/eg>).

e.g.

my $Collator = Unicode::Collate->new( normalization => undef, level => 1 );
    # (normalization => undef) is REQUIRED.
my $str = "Camel donkey zebra came\x{301}l CAMEL horse cam\0e\0l...";
$Collator->gsubst($str, "camel", sub { "<b>$_[0]</b>" });

# now $str is "<b>Camel</b> donkey zebra <b>came\x{301}l</b> <b>CAMEL</b> horse <b>cam\0e\0l</b>...";
# i.e., all the camels are made bold-faced.

Examples: levels and ignore_level2 - what does camel match?

---------------------------------------------------------------------------
| level | ignore_level2 | camel | Camel | came\x{301}l | c-a-m-e-l | cam\0e\0l |
---------------------------------------------------------------------------
| 1     | false        | yes   | yes   | yes          | yes       | yes       |
| 2     | false        | yes   | yes   | no           | yes       | yes       |
| 3     | false        | yes   | no    | no           | yes       | yes       |
| 4     | false        | yes   | no    | no           | no        | yes       |
---------------------------------------------------------------------------
| 1     | true         | yes   | yes   | yes          | yes       | yes       |
| 2     | true         | yes   | yes   | yes          | yes       | yes       |
| 3     | true         | yes   | no    | yes          | yes       | yes       |
| 4     | true         | yes   | no    | yes          | no        | yes       |
---------------------------------------------------------------------------

note: if variable => non-ignorable, camel doesn't match c-a-m-e-l
at any level.
=back
Other Methods

item if $old_tailoring = $Collator->change(%new_tailoring)

item if $modified_collator = $Collator->change(%new_tailoring)

Changes the value of specified keys and returns the changed part.

$Collator = Unicode::Collate->new(level => 4);

$Collator->eq("perl", "PERL"); # false

%old = $Collator->change(level => 2); # returns (level => 4).

$Collator->eq("perl", "PERL"); # true

$Collator->change(%old); # returns (level => 2).

$Collator->eq("perl", "PERL"); # false

Not all (key,value)s are allowed to be changed.
See also @Unicode::Collate::ChangeOK and @Unicode::Collate::ChangeNG.

In the scalar context, returns the modified collator
(but it is B<not> a clone from the original).

$Collator->change(level => 2)->eq("perl", "PERL"); # true

$Collator->eq("perl", "PERL"); # true; now max level is 2nd.

$Collator->change(level => 4)->eq("perl", "PERL"); # false

=item if $version = $Collator->version()

Returns the version number (a string) of the Unicode Standard
which the C<table> file used by the collator object is based on.
If the table does not include a version line (starting with C<@version>),
returns C<"unknown">.

=item if UCA_Version()

Returns the revision number of UTS #10 this module consults,
that should correspond with the DUCET incorporated.

=item if Base_Unicode_Version()
Returns the version number of UTS #10 this module consults, that should correspond with the DUCET incorporated.

=head1 EXPORT

No method will be exported.

=head1 INSTALL

Though this module can be used without any table file, to use this module easily, it is recommended to install a table file in the UCA format, by copying it under the directory `<a place in @INC>/Unicode/Collate`.

The most preferable one is "The Default Unicode Collation Element Table" (aka DUCET), available from the Unicode Consortium's website:

http://www.unicode.org/Public/UCA/

http://www.unicode.org/Public/UCA/latest/allkeys.txt
(latest version)

If DUCET is not installed, it is recommended to copy the file from http://www.unicode.org/Public/UCA/latest/allkeys.txt to `<a place in @INC>/Unicode/Collate/allkeys.txt` manually.

=head1 CAVEATS

=over 4

=item Normalization

Use of the normalization parameter requires the Unicode::Normalize module (see L<Unicode::Normalize>).

If you need not it (say, in the case when you need not handle any combining characters), assign C<(normalization =E<gt> undef)> explicitly.

-- see 6.5 Avoiding Normalization, UTS #10.

=item Conformance Test

The Conformance Test for the UCA is available
For \texttt{CollationTest\_SHIFTED.txt}, a collator via \texttt{Unicode::Collate->new()} should be used; for \texttt{CollationTest\_NON\_IGNORABLE.txt}, a collator via \texttt{Unicode::Collate->new(variable =E<gt> "non-ignorable", level =E<gt> 3)}. If \texttt{<UCA\_Version>} is 26 or later, the \texttt{idential} level is preferred; \texttt{Unicode::Collate->new(idential =E<gt> 1)} and \texttt{Unicode::Collate->new(idential =E<gt> 1, variable =E<gt> "non-ignorable", level =E<gt> 3)} should be used.

\texttt{B<Unicode::Normalize is required to try The Conformance Test.>}

=head1 AUTHOR, COPYRIGHT AND LICENSE

The Unicode::Collate module for perl was written by SADAHIRO Tomoyuki, \texttt{<SADAHIRO@cpan.org>}. This module is Copyright(C) 2001-2017, SADAHIRO Tomoyuki. Japan. All rights reserved.

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=head1 SEE ALSO

=over 4

=item Unicode Collation Algorithm - UTS #10

L<http://www.unicode.org/reports/tr10/>

=item The Default Unicode Collation Element Table (DUCET)

L<http://www.unicode.org/Public/UCA/latest/allkeys.txt>

=item The conformance test for the UCA

L<http://www.unicode.org/Public/UCA/latest/CollationTest.html>

L<http://www.unicode.org/Public/UCA/latest/CollationTest.zip>
=item Hangul Syllable Type

L<http://www.unicode.org/Public/UNIDATA/HangulSyllableType.txt>

=item Unicode Normalization Forms - UAX #15

L<http://www.unicode.org/reports/tr15/>

=item Unicode Locale Data Markup Language (LDML) - UTS #35

L<http://www.unicode.org/reports/tr35/>

=back

=cut

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No license file was found, but licenses were detected in source scan.

Unicode/Collate version 1.25
================================

NAME

Unicode::Collate - Unicode Collation Algorithm

SYNOPSIS

use Unicode::Collate;

#construct
$Collator = Unicode::Collate->new(%tailoring);

#sort
@sorted = $Collator->sort(@not_sorted);

#compare
$result = $Collator->cmp($a, $b); # returns 1, 0, or -1.
$result = $Collator->eq($a, $b); # returns true/false
(similarly ->ne, ->lt, ->le, ->gt, ->ge)

Note: Strings in @not_sorted, $a and $b are interpreted according to Perl's Unicode support. See perlunicode, perluniintro, perlunitut, perlunifaq, utf8.
Otherwise you can use "preprocess" or should decode them before.
INSTALL

Perl 5.6.1 or later is required.
Perl 5.8.1 or later is recommended.

Though this distribution contains a subset of an old DUCET, named "keys.txt", this one is intended only for doing a test of this module and practically useless for any other purpose.

Installation of Unicode::Collate::Locale requires Collate/Locale.pm, Collate/Locale/*.pm, Collate/CJK/*.pm and Collate/allkeys.txt.
On building, Unicode::Collate::Locale doesn't require any of data/*.txt, gendata/*.txt, and mklocale.
Tests for Unicode::Collate::Locale are named t/loc_*.t.

Since 0.54, XSUB that requires a C compiler will be built by default.
To install this module type the following:

perl Makefile.PL
make
make test
make install

Even if a C compiler is not available, pure Perl (i.e. non-XS) edition is available; type the following:

perl disableXS
perl Makefile.PL
make
make test
make install

If you decide to install XSUB edition after trying to build pure Perl, type the following:

make clean
perl enableXS
perl Makefile.PL
make
make test
make install

DEPENDENCIES

The conformant collation requires Unicode::Normalize (v 0.10 or later) although Unicode::Collate can be used without Unicode::Normalize.

ABOUT DUCET
Though this module can be used without any C<file> file, to use this module easily, it is recommended to install a table file in the UCA format, by copying it under the directory <place in @INC>/Unicode/Collate.

You can install such a table file by adding it to "Collate" directory (where "keys.txt" is placed) in this distribution before executing Makefile.PL.

The most preferable one is "The Default Unicode Collation Element Table" (aka DUCET), available from the Unicode Consortium's website:

http://www.unicode.org/Public/UCA/

http://www.unicode.org/Public/UCA/latest/allkeys.txt
(latest version)

If DUCET is not installed, it is recommended to copy the file from http://www.unicode.org/Public/UCA/latest/allkeys.txt to <place in @INC>/Unicode/Collate/allkeys.txt manually.

HOW TO CHANGE DUCET (NOT WARRANTED)

0. rewriting UCA_Version and Base_Unicode_Version in Collate.pm and t/version.t is preferred.
1. replace Collate/allkeys.txt with a new DUCET.
2. run mklocale to generate new Locale/*.pl and Korean.pm.
3. replace Collate/Locale/*.pl with the new Locale/*.pl, and Collate/CJK/Korean.pm with the new Korean.pm.
4. make test.
   IF FAIL, it may require more changes, not be easy.

AUTHOR, COPYRIGHT AND LICENSE

The Unicode::Collate module for perl was written by SADAHIRO Tomoyuki, <SADAHIRO@cpan.org>. This module is Copyright(C) 2001-2017, SADAHIRO Tomoyuki. Japan. All rights reserved.

This module is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

The file Unicode/Collate/allkeys.txt was copied verbatim from http://www.unicode.org/Public/UCA/9.0.0/allkeys.txt
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Found in path(s):
License: (GPL+ or Artistic) and Unicode

package Unicode::Collate;

BEGIN {
  unless ("A" eq pack('U', 0x41)) {
    die "Unicode::Collate cannot stringify a Unicode code point\n";
  }
  unless (0x41 == unpack('U', 'A')) {
    die "Unicode::Collate cannot get a Unicode code point\n";
  }
}

use 5.006;
use strict;
use warnings;
use Carp;
use File::Spec;

no warnings 'utf8';

our $VERSION = '1.25';
our $PACKAGE = __PACKAGE__;

my @Path = qw(Unicode Collate);
my $KeyFile = 'allkeys.txt';

# Perl's boolean
use constant TRUE  => 1;
use constant FALSE => "";
use constant NOMATCHPOS => -1;

# A coderef to get combining class imported from Unicode::Normalize
# (i.e. &Unicode::Normalize::getCombinClass).
# This is also used as a HAS_UNICODE_NORMALIZE flag.
my $CVgetCombinClass;

# Supported Levels
use constant MinLevel => 1;
use constant MaxLevel => 4;

# Minimum weights at level 2 and 3, respectively
use constant Min2Wt => 0x20;
use constant Min3Wt => 0x02;

# Shifted weight at 4th level
use constant Shift4Wt => 0xFFFF;

# A boolean for Variable and 16-bit weights at 4 levels of Collation Element
use constant VCE_TEMPLATE => 'Cn4';

# A sort key: 16-bit weights
use constant KEY_TEMPLATE => 'n*';

# The tie-breaking: 32-bit weights
use constant TIE_TEMPLATE => 'N*';

# Level separator in a sort key:
# i.e. pack(KEY_TEMPLATE, 0)
use constant LEVEL_SEP => "\0\0";

# As Unicode code point separator for hash keys.
# A joined code point string (denoted by JCPS below)
# like "65/768" is used for internal processing
# instead of Perl's Unicode string like "\x41\{300}",
# as the native code point is different from the Unicode code point
# on EBCDIC platform.
# This character must not be included in any stringified
# representation of an integer.
use constant CODE_SEP => ';';
# NOTE: in regex /;/ is used for $jcps!

# boolean values of variable weights
use constant NON_VAR => 0; # Non-Variable character
use constant VAR     => 1; # Variable character

# specific code points
use constant Hangul_SBase  => 0xAC00; ### PP only
use constant Hangul_SIni   => 0xAC00;
use constant Hangul_SFin   => 0xD7A3;
### begin PP only ###
use constant Hangul_NCount => 588;
use constant Hangul_TCount => 28;
use constant Hangul_LBase  => 0x1100;
use constant Hangul_LIni   => 0x1100;
use constant Hangul_LFill  => 0x115F;
use constant Hangul_LEnd => 0x115F; # Unicode 5.2
use constant Hangul_VBase => 0x1161;
use constant Hangul_VIni => 0x1160; # from Vowel Filler
use constant Hangul_VFin => 0x11A2;
use constant Hangul_VEnd => 0x11A7; # Unicode 5.2
use constant Hangul_TBase => 0x11A7; # from "no-final" codepoint
use constant Hangul_TIni => 0x11A8;
use constant Hangul_TFin => 0x11F9;
use constant Hangul_TEnd => 0x11FF; # Unicode 5.2
use constant HangulL2Ini => 0xA960; # Unicode 5.2
use constant HangulL2Fin => 0xA97C; # Unicode 5.2
use constant HangulV2Ini => 0xD7B0; # Unicode 5.2
use constant HangulV2Fin => 0xD7C6; # Unicode 5.2
use constant HangulT2Ini => 0xD7CB; # Unicode 5.2
use constant HangulT2Fin => 0xD7FB; # Unicode 5.2

use constant CJK_UidIni => 0x4E00; # Unicode 3.0
use constant CJK_UidFin => 0x9FA5; # Unicode 3.1
use constant CJK_UidF41 => 0x9FBB; # Unicode 4.1
use constant CJK_UidF51 => 0x9FC3; # Unicode 5.1
use constant CJK_UidF52 => 0x9FCC; # Unicode 5.2
use constant CJK_UidF61 => 0x9FCC; # Unicode 5.2
use constant CJK_UidF80 => 0x9FCC; # Unicode 5.2
use constant CJK_UidF100 => 0x9FCC; # Unicode 5.2

use constant CJK_ExtAIni => 0x3400; # Unicode 3.0
use constant CJK_ExtAFin => 0x4DB5; # Unicode 3.0
use constant CJK_ExtBIni => 0x20000; # Unicode 3.1
use constant CJK_ExtBFin => 0x2A6D6; # Unicode 3.1
use constant CJK_ExtCIni => 0x2A700; # Unicode 5.2
use constant CJK_ExtCFin => 0x2B734; # Unicode 5.2
use constant CJK_ExtDIni => 0x2B740; # Unicode 6.0
use constant CJK_ExtDFin => 0x2B81D; # Unicode 6.0
use constant CJK_ExtEIni => 0x2B820; # Unicode 8.0
use constant CJK_ExtEFin => 0x2CEA1; # Unicode 8.0
use constant CJK_ExtFIni => 0x2CEB0; # Unicode 10.0
use constant CJK_ExtFFin => 0x2EBE0; # Unicode 10.0

my %CompatUI = map +($_ => 1), (
  0xFA0E, 0xFA0F, 0xFA11, 0xFA13, 0xFA14, 0xFA1F,
  0xFA21, 0xFA23, 0xFA24, 0xFA27, 0xFA28, 0xFA29,
);

use constant TangIdeoIni => 0x17000; # Unicode 9.0
use constant TangIdeoFin => 0x187EC; # Unicode 9.0
use constant TangCompIni => 0x18800; # Unicode 9.0
use constant TangCompFin => 0x18AF2; # Unicode 9.0
use constant NushuIni => 0x1B170; # Unicode 10.0
use constant NushuFin => 0x1B2FB; # Unicode 10.0

### end PP only ###

# Logical_Order_Exception in PropList.txt
my $DefaultRearrange = [ 0x0E40..0x0E44, 0x0EC0..0x0EC4 ];

# for highestFFFF and minimalFFFE
my $HighestVCE = pack(VCE_TEMPLATE, 0, 0xFFFE, 0x20, 0x5, 0xFFFF);
my $minimalVCE = pack(VCE_TEMPLATE, 0, 1, 0x20, 0x5, 0xFFFE);

sub UCA_Version { '34' }

sub Base_Unicode_Version { '9.0.0' }

#######

sub pack_U { return pack('U*', @_); }

sub unpack_U { return unpack('U*', shift(@_).pack('U*')); }

#######

my (%VariableOK);
@VariableOK{ qw/
  blanked non-ignorable shifted shift-trimmed
  / } = (); # keys lowercased

our @ChangeOK = qw/
  alternate backwards level normalization rearrange
  katakana_before_hiragana upper_before_lower ignore_level2
  overrideCJK overrideHangul overrideOut preprocess UCA_Version
  hangul_terminator variable identical highestFFFF minimalFFFE
  long_contraction
  /;

our @ChangeNG = qw/
  entry mapping table maxlen contraction
  ignoreChar ignoreName undefChar undefName rewrite
  versionTable alternateTable backwardsTable forwardsTable
  rearrangeTable variableTable
  derivCode normCode rearrangeHash backwardsFlag
  suppress suppressHash
  /;
# The hash key 'ignored' was deleted at v 0.21.
# The hash key 'isShift' was deleted at v 0.23.
# The hash key 'combining' was deleted at v 0.24.
# The hash key 'entries' was deleted at v 0.30.
# The hash key 'L3_ignorable' was deleted at v 0.40.

sub version {
    my $self = shift;
    return $self->{versionTable} || 'unknown';
}

my (%ChangeOK, %ChangeNG);
@ChangeOK{ @ChangeOK } = ();
@ChangeNG{ @ChangeNG } = ();

sub change {
    my $self = shift;
    my %hash = @_;;
    my %old;
    if (exists $hash{alternate}) {
        if (exists $hash{variable}) {
            delete $hash{alternate};
        } else {
            $hash{variable} = $hash{alternate};
        }
    }
    foreach my $k (keys %hash) {
        if (exists $ChangeOK{$k}) {
            $old{$k} = $self->{$k};
            $self->{$k} = $hash{$k};
        } elsif (exists $ChangeNG{$k}) {
            croak "change of $k via change() is not allowed!";
        } else => ignored
    }
    $self->checkCollator();
    return wantarray ? %old : $self;
}

sub _checkLevel {
    my $level = shift;
    my $key = shift; # 'level' or 'backwards'
    MinLevel <= $level or croak sprintf "Illegal level %d (in value for key '%s') lower than %d.",
    $level, $key, MinLevel;
    $level <= MaxLevel or croak sprintf "Unsupported level %d (in value for key '%s') higher than %d.",
    $level, $key, MaxLevel;
my %DerivCode = (7 => \&_derivCE_8, 
9 => \&_derivCE_9, 
11 => \&_derivCE_9, # 11 == 9 
14 => \&_derivCE_14, 
16 => \&_derivCE_14, # 16 == 14 
18 => \&_derivCE_18, 
20 => \&_derivCE_20, 
22 => \&_derivCE_22, 
24 => \&_derivCE_24, 
26 => \&_derivCE_24, # 26 == 24 
28 => \&_derivCE_24, # 28 == 24 
30 => \&_derivCE_24, # 30 == 24 
32 => \&_derivCE_32, 
34 => \&_derivCE_34, 
36 => \&_derivCE_36, 
); 

sub checkCollator { 
  my $self = shift;
  _checkLevel($self->{level}, 'level');

  $self->{derivCode} = $DerivCode{ $self->{UCA_Version} } 
or croak "Illegal UCA version (passed $self->{UCA_Version}).";

  $self->{variable} ||= $self->{alternate} || $self->{variableTable} || 
    $self->{alternateTable} || 'shifted'; 
  $self->{variable} = $self->{alternate} = lc($self->{variable});
  exists $VariableOK{ $self->{variable} } 
or croak "$PACKAGE unknown variable parameter name: $self->{variable}";

  if (! defined $self->{backwards}) { 
    $self->{backwardsFlag} = 0;
  } elsif (! ref $self->{backwards}) { 
    _checkLevel($self->{backwards}, 'backwards');
    $self->{backwardsFlag} = 1 << $self->{backwards};
  } else { 
    my %level;
    $self->{backwardsFlag} = 0;
    for my $b (@{ $self->{backwards} }) { 
      _checkLevel($b, 'backwards');
      $level{$b} = 1;
    }
    for my $v (sort keys %level) { 
      $self->{backwardsFlag} += 1 << $v;
    }
  }
}
defined $self->{rearrange} or $self->{rearrange} = [];
ref $self->{rearrange}
or croak "$PACKAGE: list for rearrangement must be store in ARRAYREF";

# keys of $self->{rearrangeHash} are $self->{rearrange}.
$self->{rearrangeHash} = undef;

if (@{ $self->{rearrange} }) {
  @{ $self->{rearrangeHash} }{ @{ $self->{rearrange} } } = ();
}

$self->{normCode} = undef;

if (defined $self->{normalization}) {
  eval { require Unicode::Normalize ;};
  $@ and croak "Unicode::Normalize is required to normalize strings";

  $CVgetCombinClass ||= \&Unicode::Normalize::getCombinClass;

  if ($self->{normalization} =~ /^(?:NF)D\z/) { # tweak for default
    $self->{normCode} = \&Unicode::Normalize::NFD;
  } elsif ($self->{normalization} ne 'prenormalized') {
    my $norm = $self->{normalization};
    $self->{normCode} = sub {
      Unicode::Normalize::normalize($norm, shift);
    };
    eval { $self->{normCode} ->("" )}; # try
    $@ and croak "$PACKAGE unknown normalization form name: $norm";
  }
  return;
}

sub new
{
  my $class = shift;
  my $self = bless { @__ }, $class;

  # keys of $self->{suppressHash} are $self->{suppress}.
  if ($self->{suppress} && @{ $self->{suppress} }) {
    @{ $self->{suppressHash} }{ @{ $self->{suppress} } } = ();
  } # before read_table()

  # If undef is passed explicitly, no file is read.
  $self->{table} = $KeyFile if ! exists $self->{table};
$self->read_table() if defined $self->{table};

if ($self->{entry}) {
while ($self->{entry} =~ /\[\^\n\]+/) {
$self->parseEntry($1, TRUE);
}
}

# only in new(), not in change()
$self->{level} ||= MaxLevel;
$self->{UCA_Version} ||= UCA_Version();

$self->{overrideHangul} = FALSE
if ! exists $self->{overrideHangul};
$self->{overrideCJK} = FALSE
if ! exists $self->{overrideCJK};
$self->{normalization} = 'NFD'
if ! exists $self->{normalization};
$self->{rearrange} = $self->{rearrangeTable} || ($self->{UCA_Version} <= 11 ? $DefaultRearrange : [])
if ! exists $self->{rearrange};
$self->{backwards} = $self->{backwardsTable}
if ! exists $self->{backwards};
exists $self->{long_contraction} or $self->{long_contraction} = 22 <= $self->{UCA_Version} && $self->{UCA_Version} <= 24;

# checkCollator() will be called in change()
$self->checkCollator();

return $self;
}

sub parseAtmark {
    my $self = shift;
    my $line = shift; # after s/\s*\@//

    if ($line =~ /^version\s*(\S*)/) {
        $self->{versionTable} ||= $1;
    }
    elsif ($line =~ /^variable\s+((\S*))/) { # since UTS #10-9
        $self->{variableTable} ||= $1;
    }
    elsif ($line =~ /^alternate\s+((\S*))/) { # till UTS #10-8
        $self->{alternateTable} ||= $1;
    }
    elsif ($line =~ /^backwards\s+((\S*))/) { push @ { $self->{backwardsTable} }, $1;

}
elsif ($line =~ /^forwards\s+(\S*)/) { # perhaps no use
push @{ $self->{forwardsTable} }, $1;
}
elsif ($line =~ /^rearrange\s+(.*)/) { # (\S*) is NG
push @{ $self->{rearrangeTable} }, _getHexArray($1);
}
}
sub read_table {
my $self = shift;
my($f, $fh);
foreach my $d (@INC) {
$f = File::Spec->catfile($d, @Path, $self->{table});
last if open($fh, $f);
$f = undef;
}
if (!defined $f) {
$f = File::Spec->catfile(@Path, $self->{table});
croak("$PACKAGE: Can't locate $f in \@INC (\@INC contains: @INC)");
}
while (my $line = <$fh>) {
next if $line =~ /^\s*#/;
if ($line =~ s/^\s*\@//) {
$self->parseAtmark($line);
} else {
$self->parseEntry($line);
}
}
close $fh;
}

##
## get $line, parse it, and write an entry in $self
##
sub parseEntry
{
my $self = shift;
my $line = shift;
my $tailoring = shift;
my($name, $entry, @uv, @key);
if (defined $self->{rewrite}) {
$line = $self->{rewrite}->($line);
}

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return if $line !~ /^\s*[0-9A-Fa-f]/;
# removes comment and gets name
$name = $1
if $line =~ s/[#%]\s*(.*)//;
return if defined $self->{undefName} && $name =~ /$self->{undefName}/;
# gets element
my($e, $k) = split /;/, $line;
croak "Wrong Entry: <charList> must be separated by ';' from <collElement>"
if ! $k;
@uv = _getHexArray($e);
return if !@uv;
return if @uv > 1 && $self->{suppressHash} && !$tailoring &&
exists $self->{suppressHash}{$uv[0]};
$entry = join(CODE_SEP, @uv); # in JCPS
if (defined $self->{undefChar} || defined $self->{ignoreChar}) {
my $ele = pack_U(@uv);
# regarded as if it were not stored in the table
return
if defined $self->{undefChar} && $ele =~ /$self->{undefChar}/;
# replaced as completely ignorable
$k = '[.0000.0000.0000.0000]'
if defined $self->{ignoreChar} && $ele =~ /$self->{ignoreChar}/;
}
# replaced as completely ignorable
$k = '[.0000.0000.0000.0000]'
if defined $self->{ignoreName} && $name =~ /$self->{ignoreName}/;
my $is_L3_ignorable = TRUE;
foreach my $arr ($k =~ /\[([^\[\]]+)\]/g) { # SPACEs allowed
my $var = $arr =~ /\*/; # exactly /^\*/ but be lenient.
my @wt = _getHexArray($arr);
push @key, pack(VCE_TEMPLATE, $var, @wt);
$is_L3_ignorable = FALSE
if $wt[0] || $wt[1] || $wt[2];
# Conformance Test for 3.1.1 and 4.0.0 shows Level 3 ignorable
# is completely ignorable.
# For expansion, an entry $is_L3_ignorable
# if and only if "all" CEs are [.0000.0000.0000].
}

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# mapping: be an array ref or not exists (any false value is disallowed)
$self->{mapping}{[$entry]} = $is_L3_ignorable ? [] : @$key;

# maxlength: be more than 1 or not exists (any false value is disallowed)
if (@uv > 1) {
    if (!@$self->{maxlength}{$uv[0]} || @$self->{maxlength}{$uv[0]} < @uv) {
        @$self->{maxlength}{$uv[0]} = @uv;
    }
}

# contraction: be 1 or not exists (any false value is disallowed)
while (@uv > 2) {
    pop @uv;
    my $fake_entry = join(CODE_SEP, @uv); # in JCPS
    @$self->{contraction}{$fake_entry} = 1;
}

### begin PP only ###
#
# modify CE
#
sub varCE {
    my $self = shift;
    my $vbl = $self->{variable};
    my $vce = shift;
    my ($var, @wt) = unpack VCE_TEMPLATE, $vce;

    # primary weight == 0 && secondary weight != 0
    if ($self->{ignore_level2} && $wt[0] == 0 && $wt[1] != 0) {
    }
    if ($vbl eq 'non-ignorable') {
        return pack(VCE_TEMPLATE, $var, @wt);
    } elsif ($var) {
        return pack(VCE_TEMPLATE, $var, 0, 0, 0, $vbl eq 'blanked' ? $wt[3] : $wt[0]);
    } elsif ($vbl eq 'blanked') {
        return pack(VCE_TEMPLATE, $var, @wt);
    } elsif ($self->{UCA_Version} >= 36 && $vbl eq 'shifted' && !$wt[1] && !$wt[2]) {
        # completely ignorable or the second derived CE
        return pack(VCE_TEMPLATE, $var, $wt[0], 0, 0, 0);
    } else {
        return pack(VCE_TEMPLATE, $var, @wt[0..2],}
sub visualizeSortKey
{
    my $self = shift;
    my $view = join ' ', map sprintf('%04X', $_), unpack(KEY_TEMPLATE, shift);

    if ($self->{UCA_Version} <= 8) {
        $view =~ s/ ?0000 ?/|/ for MinLevel..MaxLevel;
    } else {
        $view =~ s/\b0000\b/|/ for MinLevel..MaxLevel;
    }
    return "[$view]";
}
### end PP only ###

sub viewSortKey
{
    my $self = shift;
    my $str = shift;
    $self->visualizeSortKey($self->getSortKey($str));
}

sub process
{
    my $self = shift;
    my $str = shift;
    my $prep = $self->{preprocess};
    my $norm = $self->{normCode};

    $str = &$prep($str) if ref $prep;
    $str = &$norm($str) if ref $norm;
    return $str;
}

##
## arrayref of JCPS   = splitEnt(string to be collated)
## arrayref of arrayref[JCPS, ini_pos, fin_pos] = splitEnt(string, TRUE)
##
sub splitEnt
{
    my $self = shift;

my $str = shift;
my $wLen = shift; # with Length

my $map = $self->{mapping};
my $max = $self->{maxLength};
my $reH = $self->{rearrangeHash};
my $vers = $self->{UCA_Version};
my $ver9 = $vers >= 9 && $vers <= 11;
my $long = $self->{long_contraction};

my @buf;

# get array of Unicode code point of string.
my @src = unpack_U($str);

# rearrangement:
# Character positions are not kept if rearranged,
# then neglected if $wLen is true.
if ($reH && ! $wLen) {
  for (my $i = 0; $i < @src; $i++) {
    if (exists $reH->{ $src[$i] } && $i + 1 < @src) {
      ($src[$i], $src[$i+1]) = ($src[$i+1], $src[$i]);
      $i++;
    }
  }
}

# remove a code point marked as a completely ignorable.
for (my $i = 0; $i < @src; $i++) {
  if ($vers <= 20 && _isIllegal($src[$i])) {
    $src[$i] = undef;
  } elsif ($ver9) {
    $src[$i] = undef if exists $map->{ $src[$i] } && @ { $map->{ $src[$i] } } == 0;
  }
}

for (my $i = 0; $i < @src; $i++) {
  my $jcps = $src[$i];
  # skip removed code point
  if (! defined $jcps) {
    if ($wLen && @buf) {
      $buf[-1][2] = $i + 1;
    }
    next;
  }
}
my $i_orig = $i;

# find contraction
if (exists $max->{$jcps}) {
    my $temp_jcps = $jcps;
    my $jcpsLen = 1;
    my $maxLen = $max->{$jcps};
    for (my $p = $i + 1; $jcpsLen < $maxLen && $p < @src; $p++) {
        next if ! defined $src[$p];
        $temp_jcps .= CODE_SEP . $src[$p];
        $jcpsLen++;
        if (exists $map->{$temp_jcps}) {
            $jcps = $temp_jcps;
            $i = $p;
            last;
        }
    }
}

# discontiguous contraction with Combining Char (cf. UTS#10, S2.1).
# This process requires Unicode::Normalize.
# If "normalization" is undef, here should be skipped *always*
# (in spite of bool value of $CVgetCombinClass),
# since canonical ordering cannot be expected.
# Blocked combining character should not be contracted.

    # $self->{normCode} is false in the case of "prenormalized".
    if ($self->{normalization}) {
        my $cont = $self->{contraction};
        my $preCC = 0;
        my $preCC_uc = 0;
        my $jcps_uc = $jcps;
        my(@out, @out_uc);
        for (my $p = $i + 1; $p < @src; $p++) {
            next if ! defined $src[$p];
            my $curCC = $CVgetCombinClass->($src[$p]);
            last unless $curCC;
            my $tail = CODE_SEP . $src[$p];
            if ($preCC != $curCC && exists $map->{$jcps.$tail}) {
                $jcps .= $tail;
                push @out, $p;
            } else {
                $preCC = $curCC;
            }
        }
    }
    if ($preCC != $curCC && exists $map->{$jcps.$tail}) {
        $jcps .= $tail;
        push @out, $p;
    } else {
        $preCC = $curCC;
    }
    next if (!$long;
if ($preCC_uc != $curCC &&
(exists $map->{$jcps_uc.$tail} ||
exists $cont->{$jcps_uc.$tail})) {
$jcps_uc .= $tail;
push @out_uc, $p;
} else {
$preCC_uc = $curCC;
}

if (@out_uc && exists $map->{$jcps_uc}) {
$jcps = $jcps_uc;
$src{$_} = undef for @out_uc;
} else {
$src{$_} = undef for @out;
}

# skip completely ignorable
if (exists $map->{$jcps} && @{ $map->{$jcps} } == 0) {
if ($wLen && @buf) {
$buf[-1][2] = $i + 1;
}
next;
}
push @buf, $wLen ? [$jcps, $i_orig, $i + 1] : $jcps;
return \@buf;

##
## VCE = _pack_override(input, codepoint, derivCode)
##
sub _pack_override ($$$) {
  my $r = shift;
  my $u = shift;
  my $der = shift;

  if (ref $r) {
    return pack(VCE_TEMPLATE, NON_VAR, @$r);
  } elsif (defined $r) {
    return pack(VCE_TEMPLATE, NON_VAR, $r, Min2Wt, Min3Wt, $u);
  } else {
    $u = 0xFFFD if 0x10FFFF < $u;
    return $der->($u);
  }
}
sub getWt
{
    my $self = shift;
    my $u    = shift;
    my $map = $self->{mapping};
    my $der = $self->{derivCode};
    my $out = $self->{overrideOut};

    return if !defined $u;
    return $self->varCE($HighestVCE) if $u eq 0xFFFF && $self->{highestFFFF};
    return $self->varCE($minimalVCE) if $u eq 0xFFFE && $self->{minimalFFFE};
    $u = 0xFFFD if $u !~ /;/ && 0x10FFFF < $u && !$out;

    my @ce;
    if (exists $map->{$u}) {
        @ce = @{ $map->{$u} }; # $u may be a contraction
    } elsif (Hangul_SIni <= $u && $u <= Hangul_SFin) {
        my $hang = $self->{overrideHangul};
        if ($hang) {
            @ce = map _pack_override($_, $u, $der), $hang->($u);
        } elsif (!defined $hang) {
            @ce = $der->($u);
        } else {
            my $max  = $self->{maxlength};
            my @decH = _decompHangul($u);

            if (@decH == 2) {
                my $contract = join(CODE_SEP, @decH);
                @decH = ($contract) if exists $map->{$contract};
            } else { # must be <@decH == 3>
                if (exists $max->{$decH[0]}) {
                    my $contract = join(CODE_SEP, @decH);
                    if (exists $map->{$contract}) {
                        @decH = ($contract);
                    } else {
                        $contract = join(CODE_SEP, $decH[0,1]);
                        exists $map->{$contract} and @decH = ($contract, $decH[2]);
                    }
                } # even if V's ignorable, LT contraction is not supported.
                # If such a situation were required, NFD should be used.
            } if (@decH == 3 && exists $max->{$decH[1]}) {
                my $contract = join(CODE_SEP, $decH[1,2]);
exists $map->{$_} ? @{ $map->{$_} } : $der->($_); }
} @decH;
}
else if ($out && 0x10FFFF < $u) {
@ce = map _pack_override($_, $u, $der), $out->($u);
} else {
my $cjk = $self->{overrideCJK};
my $vers = $self->{UCA_Version};
if ($cjk && _isUIdeo($u, $vers)) {
  @ce = map _pack_override($_, $u, $der), $cjk->($u);
} elsif ($vers == 8 && defined $cjk && _isUIdeo($u, 0)) {
  @ce = _uideoCE_8($u);
} else {
  @ce = $der->($u);
}
}
return map $self->varCE($_), @ce;

##
## string sortkey = getSortKey(string arg)
##
sub getSortKey
{
  my $self = shift;
  my $orig = shift;
  my $str = $self->process($orig);
  my $rEnt = $self->splitEnt($str); # get an arrayref of JCPS
  my $vers = $self->{UCA_Version};
  my $term = $self->{hangul_terminator};
  my $lev = $self->{level};
  my $iden = $self->{identical};
  ### begin PP only ##
  my $v2i = $vers >= 9 && $self->{variable} ne 'non-ignorable';
  ### end PP only ##
  my @buf; # weight arrays
  if ($term) {
    my $preHST = '';
    my $termCE = $self->varCE(pack(VCE_TEMPLATE, NON_VAR, $term, 0,0,0));
    foreach my $jcps (@$rEnt) {
      # weird things like VL, TL-contraction are not considered!
my $curHST = join '', map getHST($_, $vers), split /;/, $jcps;
if ($preHST && '&$curHST || # hangul before non-hangul
$preHST =~/^L/ && $curHST =~ /^T/ ||
$preHST =~ /V/ && $curHST =~ /^L/ ||
$preHST =~ /T/ && $curHST =~ /^L/ ||
push @buf, SternCE;
}
$preHST = $curHST;
push @buf, $self->getWt($jcps);
}
push @buf, $self->getWt($jcps) if $preHST;   # end at hangul
else {
foreach my $jcps (@$rEnt) {
push @buf, $self->getWt($jcps);
}
}

### begin PP only ###
# make sort key
my @ret = ([],[],[],[]);
my $last_is_variable;

foreach my $vwt (@buf) {
my($var, @wt) = unpack(VCE_TEMPLATE, $vwt);

# "Ignorable (L1, L2) after Variable" since track. v. 9
if ($v2i) {
    if ($var) {
        $last_is_variable = TRUE;
    } elsif (!$wt[0]) { # ignorable
        next if $last_is_variable;
    } else {
        $last_is_variable = FALSE;
    }
}
foreach my $v (0..$lev-1) {
    0 < $wt[$v] and push @{ $ret[$v] }, $wt[$v];
}

# modification of tertiary weights
if ($self->{upper_before_lower}) {
    foreach my $w (@{ $ret[2] }) {
        if (0x8 <= $w && $w <= 0xC) { $w -= 6 } # lower
        elsif (0x2 <= $w && $w <= 0x6) { $w += 6 } # upper
        elsif ($w == 0x1C)             { $w += 1 } # square upper
        elsif ($w == 0x1D)             { $w -= 1 } # square lower
    }
}

foreach my $v (@$rEnt) {
    push @buf, $self->getWt($v);
}

if ($self->{katakana_before_hiragana}) {
foreach my $w (@{ $ret[2] }) {
    if (0x0F <= $w && $w <= 0x13) { $w -= 2 } # katakana
    elsif (0x0D <= $w && $w <= 0x0E) { $w += 5 } # hiragana
}
}

if ($self->{backwardsFlag}) {
for (my $v = MinLevel; $v <= MaxLevel; $v++) {
    if ($self->{backwardsFlag} & (1 << $v)) {
        @{$ret[$v-1]} = reverse @{$ret[$v-1]};
    }
}
}

my $rkey = join LEVEL_SEP, map pack(KEY_TEMPLATE, @$_), @ret;
### end PP only ##

if ($iden || $vers >= 26 && $lev == MaxLevel) {
$rkey .= LEVEL_SEP;
$rkey .= pack(TIE_TEMPLATE, unpack_U($str)) if $iden;
} return $rkey;

## int compare = cmp(string a, string b)
##
## sub cmp { $_[0]->getSortKey($[1]) cmp $_[0]->getSortKey($[2]) }
## sub eq  { $_[0]->getSortKey($[1]) eq  $_[0]->getSortKey($[2]) }
## sub ne  { $_[0]->getSortKey($[1]) ne  $_[0]->getSortKey($[2]) }
## sub lt  { $_[0]->getSortKey($[1]) lt  $_[0]->getSortKey($[2]) }
## sub le  { $_[0]->getSortKey($[1]) le  $_[0]->getSortKey($[2]) }
## sub gt  { $_[0]->getSortKey($[1]) gt  $_[0]->getSortKey($[2]) }
## sub ge  { $_[0]->getSortKey($[1]) ge  $_[0]->getSortKey($[2]) }
##
## list[strings] sorted = sort(list[strings] arg)
##
## sub sort {
##    my $obj = shift;
##    return map { $_[1] }
##        sort { $a->[0] cmp $b->[0] }
##        map [ $obj->getSortKey($_), @_; ];
##    }
sub _derivCE_36 {
    my $u = shift;
    my $Stang = (TangIdeoIni <= $u && $u <= TangIdeoFin ||
                 TangCompIni <= $u && $u <= TangCompFin);
    my $Snum = (NushuIni <= $u && $u <= NushuFin);
    my $base = ($Stang)
                        ? 0xFB00 : # Tangut
                         ($Snum)
                        ? 0xFB01 : # Nushu
                             (CJK_UidIni <= $u && $u <= CJK_UidF100 || $CompatUI{$u})
                        ? 0xFB40 : # CJK
                             (CJK_ExtAlIni <= $u && $u <= CJK_ExtAFin)
                             CJK_ExtBIni <= $u && $u <= CJK_ExtBFin ||
                             CJK_ExtClIni <= $u && $u <= CJK_ExtCFin ||
                             CJK_ExtDIni <= $u && $u <= CJK_ExtDFin ||
                             CJK_ExtELIni <= $u && $u <= CJK_ExtEFin ||
                             CJK ExtFin <= $u && $u <= CJK ExtFin)
                    ? 0xFB80  # CJK ext.
                         : 0xFBC0; # others
    my $aaaa = $Stang || $Snum ? $base : $base + ($u >> 15);
    my $bbbb = ($Stang ? ($u - TangIdeoIni) : ($u & 0x7FFF)) | 0x8000;
    return pack(VCE_TEMPLATE, NON_VAR, $aaaa, Min2Wt, Min3Wt, $u),
                 pack(VCE_TEMPLATE, NON_VAR, $bbbb,      0,      0, $u);
}

sub _derivCE_34 {
    my $u = shift;
    my $Stang = (TangIdeoIni <= $u && $u <= TangIdeoFin ||
                 TangCompIni <= $u && $u <= TangCompFin);
    my $base = ($Stang)
                        ? 0xFB00 : # Tangut
                             (CJK_UidIni <= $u && $u <= CJK_UidF80 || $CompatUI{$u})
                        ? 0xFB40 : # CJK
                             (CJK_ExtAlIni <= $u && $u <= CJK_ExtAFin)
                             CJK_ExtBIni <= $u && $u <= CJK_ExtBFin ||
                             CJK_ExtClIni <= $u && $u <= CJK_ExtCFin ||
                             CJK_ExtDIni <= $u && $u <= CJK_ExtDFin ||
                             CJK_ExtELIni <= $u && $u <= CJK_ExtEFin ||
                             CJK ExtFin <= $u && $u <= CJK ExtFin)
                    ? 0xFB80  # CJK ext.
                         : 0xFBC0; # others
    my $aaaa = $Stang ? $base : $base + ($u >> 15);
    my $bbbb = ($Stang ? ($u - TangIdeoIni) : ($u & 0x7FFF)) | 0x8000;
    return pack(VCE_TEMPLATE, NON_VAR, $aaaa, Min2Wt, Min3Wt, $u),
                 pack(VCE_TEMPLATE, NON_VAR, $bbbb,      0,      0, $u);
}
sub _derivCE_32 {
    my $u = shift;
    my $base = (CJK_UidIni <= $u && $u <= CJK_UidF80 || $CompatUI{$u})
        ? 0xFB40 : # CJK
            (CJK_ExtAIni <= $u && $u <= CJK_ExtAFin ||
            CJK_ExtBIni <= $u && $u <= CJK_ExtBFin ||
            CJK_ExtCIni <= $u && $u <= CJK_ExtCFin ||
            CJK_ExtDIni <= $u && $u <= CJK_ExtDFin ||
            CJK_ExtEIni <= $u && $u <= CJK_ExtEFin)
        ? 0xFB80  # CJK ext.
        : 0xFBC0; # others
    my $aaaa = $base + ($u >> 15);
    my $bbbb = ($u & 0x7FFF) | 0x8000;
    return pack(VCE_TEMPLATE, NON_VAR, $aaaa, Min2Wt, Min3Wt, $u),
        pack(VCE_TEMPLATE, NON_VAR, $bbbb, 0, 0, $u);
}

sub _derivCE_24 {
    my $u = shift;
    my $base = (CJK_UidIni <= $u && $u <= CJK_UidF61 || $CompatUI{$u})
        ? 0xFB40 : # CJK
            (CJK_ExtAIni <= $u && $u <= CJK_ExtAFin ||
            CJK_ExtBIni <= $u && $u <= CJK_ExtBFin ||
            CJK_ExtCIni <= $u && $u <= CJK_ExtCFin ||
            CJK_ExtDIni <= $u && $u <= CJK_ExtDFin ||
            CJK_ExtEIni <= $u && $u <= CJK_ExtEFin)
        ? 0xFB80  # CJK ext.
        : 0xFBC0; # others
    my $aaaa = $base + ($u >> 15);
    my $bbbb = ($u & 0x7FFF) | 0x8000;
    return pack(VCE_TEMPLATE, NON_VAR, $aaaa, Min2Wt, Min3Wt, $u),
        pack(VCE TEMPLATE, NON_VAR, $bbbb, 0, 0, $u);
}

sub _derivCE_22 {
    my $u = shift;
    my $base = (CJK_UidIni <= $u && $u <= CJK_UidF52 || $CompatUI{$u})
        ? 0xFD40 : # CJK
            (CJK_ExtAIni <= $u && $u <= CJK_ExtAFin ||
            CJK_ExtBIni <= $u && $u <= CJK_ExtBFin ||
            CJK_ExtCIni <= $u && $u <= CJK_ExtCFin ||
            CJK_ExtDIni <= $u && $u <= CJK_ExtDFin ||
            CJK_ExtEIni <= $u && $u <= CJK_ExtEFin)
        ? 0xFD80  # CJK ext.
        : 0xFBC0; # others
    my $aaaa = $base + ($u >> 15);
    my $bbbb = ($u & 0x7FFF) | 0x8000;
    return pack(VCE_TEMPLATE, NON_VAR, $aaaa, Min2Wt, Min3Wt, $u),
        pack(VCE TEMPLATE, NON_VAR, $bbbb, 0, 0, $u);
sub _derivCE_20 {
    my $u = shift;
    my $base = (CJK_UidIni <= $u && $u <= CJK_UidF52 || $CompatUI{$u})
    ? 0xFB40 : # CJK
        (CJK_ExtAlnI <= $u && $u <= CJK_ExtAFin ||
        CJK_ExtBlnI <= $u && $u <= CJK_ExtBFin ||
        CJK_ExtClnI <= $u && $u <= CJK_ExtCFin)
    ? 0xFB80 # CJK ext.
        ; # others
    my $aaa = $base + ($u >> 15);
    my $bbbb = ($u & 0x7FFF) | 0x8000;
    return pack(VCE_TEMPLATE, NON_VAR, $aaa, Min2Wt, Min3Wt, $u),
        pack(VCE_TEMPLATE, NON_VAR, $bbbb, 0, 0, $u);
}

sub _derivCE_18 {
    my $u = shift;
    my $base = (CJK_UidIni <= $u && $u <= CJK_UidF51 || $CompatUI{$u})
    ? 0xFB40 : # CJK
        (CJK_ExtAlnI <= $u && $u <= CJK_ExtAFin ||
        CJK_ExtBlnI <= $u && $u <= CJK_ExtBFin)
    ? 0xFB80 # CJK ext.
        ; # others
    my $aaa = $base + ($u >> 15);
    my $bbbb = ($u & 0x7FFF) | 0x8000;
    return pack(VCE_TEMPLATE, NON_VAR, $aaa, Min2Wt, Min3Wt, $u),
        pack(VCE_TEMPLATE, NON_VAR, $bbbb, 0, 0, $u);
}

sub _derivCE_14 {
    my $u = shift;
    my $base = (CJK_UidIni <= $u && $u <= CJK_UidF41 || $CompatUI{$u})
    ? 0xFB40 : # CJK
        (CJK_ExtAlnI <= $u && $u <= CJK_ExtAFin ||
        CJK_ExtBlnI <= $u && $u <= CJK_ExtBFin)
    ? 0xFB80 # CJK ext.
        ; # others
    my $aaa = $base + ($u >> 15);
    my $bbbb = ($u & 0x7FFF) | 0x8000;
    return pack(VCE_TEMPLATE, NON_VAR, $aaa, Min2Wt, Min3Wt, $u),
        pack(VCE_TEMPLATE, NON_VAR, $bbbb, 0, 0, $u);
}

sub _derivCE_9 {
    my $u = shift;
    my $base = (CJK_UidIni <= $u && $u <= CJK_UidFin || $CompatUI{$u})
? 0xFB40 : # CJK
   (CJK_ExtAIni <= $u && $u <= CJK_ExtAFin ||
    CJK_ExtBIni <= $u && $u <= CJK_ExtBFin)
? 0xFB80 # CJK ext.
: 0xFBC0; # others
   my $aaaa = $base + ($u >> 15);
   my $bbbb = ($u & 0x7FFF) | 0x8000;
   return pack(VCE TEMPLATE, NON_VAR, $aaaa, Min2Wt, Min3Wt, $u),
              pack(VCE TEMPLATE, NON_VAR, $bbbb, 0, 0, $u);
}

sub _derivCE_8 {
   my $code = shift;
   my $aaaa = 0xFF80 + ($code >> 15);
   my $bbbb = ($code & 0x7FFF) | 0x8000;
   return pack(VCE TEMPLATE, NON_VAR, $aaaa, 2, 1, $code),
              pack(VCE TEMPLATE, NON_VAR, $bbbb, 0, 0, $code);
}

sub _uideoCE_8 {
   my $u = shift;
   return pack(VCE TEMPLATE, NON_VAR, $u, Min2Wt, Min3Wt, $u);
}

sub _isUIdeo {
   # $uca_vers = 0 for _uideoCE_8()
   my ($u, $uca_vers) = @_;
   return((CJK_UidIni <= $u && ($uca_vers >= 36 ? ($u <= CJK_UidF100) :
       ($uca_vers >= 32 ? ($u <= CJK_UidF80) :
        ($uca_vers >= 24 ? ($u <= CJK_UidF61) :
         ($uca_vers >= 20 ? ($u <= CJK_UidF52) :
             ($uca_vers >= 18 ? ($u <= CJK_UidF51) :
                 ($uca_vers >= 14 ? ($u <= CJK_UidF41) :
                    ($u <= CJK_UidFin)))) || $CompatUI{$u}
                   || (CJK_ExtAIni <= $u && $u <= CJK_ExtAFIn)) ||
       ($uca_vers >= 8 && CJK_ExtBIni <= $u && $u <= CJK_ExtBFin)) ||
       ($uca_vers >= 20 && CJK_ExtCIni <= $u && $u <= CJK_ExtCFin)) ||
       ($uca_vers >= 22 && CJK_ExtDIni <= $u && $u <= CJK_ExtDFin)) ||
       ($uca_vers >= 32 && CJK_ExtEIni <= $u && $u <= CJK_ExtEFin)) ||
       ($uca_vers >= 36 && CJK_ExtFIni <= $u && $u <= CJK_ExtFFin))
       ));

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```perl
# _getHexArray { map hex, $_[0] =~ /[0-9a-fA-F]+/g }

sub _decompHangul {  
    my $code = shift;
    my $ssi = $code - Hangul_SBase;
    my $si = int( $ssi / Hangul_NCount);
    my $vi = int(($ssi % Hangul_NCount) / Hangul_TCount);
    my $ti = $ssi % Hangul_TCount;
    return (Hangul_LBase + $si, Hangul_VBase + $vi, $ti ? (Hangul_TBase + $ti) : ());
}

sub _isIllegal {  
    my $code = shift;
    return((! defined $code) # removed
        || ($code < 0 || 0x10FFFF < $code) # out of range
        || (($code & 0xFFFE) == 0xFFFE) # ??FFF[E/F]
        || (0xD800 <= $code && $code <= 0xDFFF) # unpaired surrogates
        || (0xFDD0 <= $code && $code <= 0xFDEF) # other non-characters
    );
}

sub getHST {  
    my $u = shift;
    my $vers = shift || 0;
    if (Hangul_SIni <= $u && $u <= Hangul_SFin) {  
        return +(($u - Hangul_SBase) % Hangul_TCount ? 'LVT' : 'LV');
    }
    if ($vers < 20) {  
        return Hangul_LIni <= $u && $u <= Hangul_LFin ||
            $u == Hangul_LFill ? 'L':
            Hangul_VIni <= $u && $u <= Hangul_VFin ? 'V':
```

Hangul_TIni <= $u && $u <= Hangul_TFin ? 'T' : "
} else {
return Hangul_LIni <= $u && $u <= Hangul_LEnd ||
    HangulL2Ini <= $u && $u <= HangulL2Fin ? 'L' :
    Hangul_VIni <= $u && $u <= Hangul_VEnd ||
    HangulV2Ini <= $u && $u <= HangulV2Fin ? 'V' :
    Hangul_TIni <= $u && $u <= Hangul_TEnd ||
    HangulT2Ini <= $u && $u <= HangulT2Fin ? 'T' : "
} }

## end PP only ##

### _nonIgnorAtLevel(arrayref weights, int level) ###

```perl
sub _nonIgnorAtLevel($$) {
    my $wt = shift;
    return if ! defined $wt;
    my $lv = shift;
    return grep($wt->[$_-1] != 0, MinLevel..$lv) ? TRUE : FALSE;
}
```

### _eqArray(arrayref of arrayref[weights] source, arrayref of arrayref[weights] substr, int level) ###

```perl
sub _eqArray($$$) {
    my $source = shift;
    my $substr = shift;
    my $lev = shift;

    for my $g (0..@$substr-1){
        # Do the $g'th graphemes have the same number of AV weights?
        return if @ { $source->[Sg] != @ { $substr->[Sg] };

        for my $w (0..@{ $substr->[Sg]-1) {  
            for my $v (0..$lev-1) {
                return if $source->[$g][$w][$v] != $substr->[$g][$w][$v];
            }
        }
    }
```
return 1;
}

## (int position, int length)
## int position = index(string, substring, position, [undoc'ed global])
##
## With "global" (only for the list context),
## returns list of arrayref[position, length].
##
sub index
{
    my $self = shift;
    $self->{preprocess} and
croak "Don't use Preprocess with index(), match(), etc."
    $self->{normCode} and
croak "Don't use Normalization with index(), match(), etc.";

    my $str  = shift;
    my $len  = length($str);
    my $sub  = shift;
    my $subE = $self->splitEnt($sub);
    my $pos  = @_ ? shift : 0;
    $pos  = 0 if $pos < 0;
    my $glob = shift;

    my $lev  = $self->{level};
    my $v2i  = $self->{UCA_Version} >= 9 &&
    $self->{variable} ne 'non-ignorable';

    if (! @$subE) {
        my $temp = $pos <= 0 ? 0 : $len <= $pos ? $len : $pos;
        return $glob
           ? map([$_, 0], $temp..$len)
           : wantarray ? ($temp,0) : $temp;
    }
    $len < $pos
    and return wantarray ? () : NOMATCHPOS;

    my $strE = $self->splitEnt($pos ? substr($str, $pos) : $str, TRUE);
    @$strE
    or return wantarray ? () : NOMATCHPOS;

    my(@strWt, @iniPos, @finPos, @subWt, @g_ret);

    my $last_is_variable;
    for my $vwt (map $self->getWt($_), @$subE) {
        my($var, @wt) = unpack(VCE_TEMPLATE, $vwt);
        my($to_be_pushed = _nonIgnorAtLevel($@wt,$lev);


if ($v2i) {
    if ($\var$) {
        $last_is_variable = TRUE;
    }
    elsif (!$\text{wt}[0]$) { # ignorable
        $to_be_pushed = FALSE if $last_is_variable;
    }
    else {
        $last_is_variable = FALSE;
    }
}

if (@subWt && !$\var$ && !$\text{wt}[0]$) {
    push @ [ $subWt[-1] ], \@wt if $to_be_pushed;
} elsif ($to_be_pushed) {
    push @subWt, [ \@wt ];
} # else ===> skipped

my $count = 0;
my $end = @$strE - 1;

$last_is_variable = FALSE; # reuse
for (my $i = 0; $i <= $end; ) { # no $i++
    my $found_base = 0;
    # fetch a grapheme
    while ($i <= $end && $found_base == 0) {
        for my $vwt ($self->getWt($strE->[\$i][0])) {
            my($\var$, @\text{wt}) = unpack(VCE_TEMPLATE, $vwt);
            my $to_be_pushed = _nonIgnorAtLevel(\@\text{wt},$lev);
        }
    }
    # "Ignorable (L1, L2) after Variable" since track. v. 9
    if ($v2i) {
        if ($\var$) {
            $last_is_variable = TRUE;
        }
        elsif (!$\text{wt}[0]$) { # ignorable
            $to_be_pushed = FALSE if $last_is_variable;
        }
        else {
            $last_is_variable = FALSE;
        }
    }
if (@strWt && !$var && !$Wt[0]) {
    push @Wt, \@Wt if $to_be_pushed;
    $finPos[-1] = $strE->[Si][2];
} elsif ($to_be_pushed) {
    push @strWt, \@Wt;
    push @iniPos, $found_base ? NOMATCHPOS : $strE->[Si][1];
    $finPos[-1] = NOMATCHPOS if $found_base;
    push @finPos, $strE->[Si][2];
    $found_base++;
}

# try to match
while ( @strWt > @subWt || (@strWt $$@subWt && $i > $end) ) {
    if ($iniPos[0] != NOMATCHPOS &&
        $finPos[$#subWt] != NOMATCHPOS &&
        _eqArray(@strWt, @subWt, $lev)) {
        my $temp = $iniPos[0] + $pos;
        if ($glob) {
            push @g_ret, [$temp, $finPos[$#subWt] - $iniPos[0]];
            splice @strWt, 0, $#subWt;
            splice @iniPos, 0, $#subWt;
            splice @finPos, 0, $#subWt;
        } else {
            return wantarray
        ? ($temp, $finPos[$#subWt] - $iniPos[0])
        : $temp;
        }
    } shift @strWt;
    shift @iniPos;
    shift @finPos;
}

return $glob
? @g_ret
: wantarray ? () : NOMATCHPOS;

##
## scalarref to matching part = match(string, substring)
##
sub match
{
    my $self = shift;
    if (my($pos,$len) = $self->index($_[0], $_[1])) {
        my $temp = substr($_[0], $pos, $len);
        return wantarray ? $temp : $temp;
        # An lvalue ref \substr should be avoided,
        # since its value is affected by modification of its referent.
    } else {
        return;
    }
}

##
## arrayref matching parts = gmatch(string, substring)
##
## sub gmatch
{
    my $self = shift;
    my $str  = shift;
    my $sub  = shift;
    return map substr($str, $_->[0], $_->[1]),
    $self->index($str, $sub, 0, 'g');
}

##
## bool subst'ed = subst(string, substring, replace)
##
## sub subst
{
    my $self = shift;

    if (my($pos,$len) = $self->index($_[0], $_[1])) {
    if ($code) {
        my $mat = substr($_[0], $pos, $len);
        substr($_[0], $pos, $len, $code->($mat));
    } else {
        substr($_[0], $pos, $len, $_[2]);
    }
    return TRUE;
    } else {
        return FALSE;
    }
}
int count = gsubst(string, substring, replace)

sub gsubst
{
    my $self = shift;
    my $cnt = 0;

    # Replacement is carried out from the end, then use reverse.
    for my $pos_len (reverse $self->index($_[0], $_[1], 0, 'g')) {
        if ($code) {
            my $mat = substr($_[0], $pos_len->[0], $pos_len->[1]);
            substr($_[0], $pos_len->[0], $pos_len->[1], $code->($mat));
        } else {
            substr($_[0], $pos_len->[0], $pos_len->[1], $_[2]);
        }
        $cnt++;
    }
    return $cnt;
}

__END__

=head1 NAME

Unicode::Collate - Unicode Collation Algorithm

=head1 SYNOPSIS

use Unicode::Collate;

#construct
$Collator = Unicode::Collate->new(%tailoring);

#sort
@sorted = $Collator->sort(@not_sorted);

#compare
$result = $Collator->cmp($a, $b); # returns 1, 0, or -1.

=begin

B<Note:> Strings in C<@not_sorted>, C<$a> and C<$b> are interpreted according to Perl's Unicode support. See L<perlunicode>, L<perluniintro>, L<perlunitut>, L<perlunifaq>, L<utf8>.
Otherwise you can use C<preprocess> or should decode them before.

=head1 DESCRIPTION
This module is an implementation of Unicode Technical Standard #10
(a.k.a. UTS #10) - Unicode Collation Algorithm (a.k.a. UCA).
=head2 Constructor and Tailoring
The C<new> method returns a collator object. If new() is called
with no parameters, the collator should do the default collation.
$Collator = Unicode::Collate->new(
UCA_Version => $UCA_Version,
alternate => $alternate, # alias for 'variable'
backwards => $levelNumber, # or \@levelNumbers
entry => $element,
hangul_terminator => $term_primary_weight,
highestFFFF => $bool,
identical => $bool,
ignoreName => qr/$ignoreName/,
ignoreChar => qr/$ignoreChar/,
ignore_level2 => $bool,
katakana_before_hiragana => $bool,
level => $collationLevel,
long_contraction => $bool,
minimalFFFE => $bool,
normalization => $normalization_form,
overrideCJK => \&overrideCJK,
overrideHangul => \&overrideHangul,
preprocess => \&preprocess,
rearrange => \@charList,
rewrite => \&rewrite,
suppress => \@charList,
table => $filename,
undefName => qr/$undefName/,
undefChar => qr/$undefChar/,
upper_before_lower => $bool,
variable => $variable,
);
=over 4
=item UCA_Version
If the revision (previously "tracking version") number of UCA is given,
behavior of that revision is emulated on collating.
If omitted, the return value of C<UCA_Version()> is used.
The following revisions are supported. The default is 34.

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<table>
<thead>
<tr>
<th>UCA</th>
<th>Unicode Standard</th>
<th>DUCET (@version)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>3.1</td>
<td>3.0.1 (3.0.1d9)</td>
</tr>
<tr>
<td>9</td>
<td>3.1 with Corrigendum 3</td>
<td>3.1.1 (3.1.1)</td>
</tr>
<tr>
<td>11</td>
<td>4.0</td>
<td>4.0.0 (4.0.0)</td>
</tr>
<tr>
<td>14</td>
<td>4.1.0</td>
<td>4.1.0 (4.1.0)</td>
</tr>
<tr>
<td>16</td>
<td>5.0</td>
<td>5.0.0 (5.0.0)</td>
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<td>5.1.0 (5.1.0)</td>
</tr>
<tr>
<td>20</td>
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</tr>
<tr>
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<tr>
<td>36</td>
<td>10.0.0</td>
<td>10.0.0 (10.0.0)</td>
</tr>
</tbody>
</table>

* See below for `long_contraction` with `UCA_Version` 22 and 24.

* Noncharacters (e.g. U+FFFF) are not ignored, and can be overridden since `UCA_Version` 22.

* Out-of-range codepoints (greater than U+10FFFF) are not ignored, and can be overridden since `UCA_Version` 22.

* Fully ignorable characters were ignored, and would not interrupt contractions with `UCA_Version` 9 and 11.

* Treatment of ignorable characters after variables and some behaviors were changed at `UCA_Version` 9.

* Characters regarded as CJK unified ideographs (cf. `overrideCJK`) depend on `UCA_Version`.

* Many hangul jamo are assigned at `UCA_Version` 20, that will affect `hangul_terminator`.

= item alternate

-- see 3.2.2 Alternate Weighting, version 8 of UTS #10

For backward compatibility, `alternate` (old name) can be used as an alias for `variable`.

= item backwards

-- see 3.4 Backward Accents, UTS #10.
backwards => $levelNumber or \@levelNumbers

Weights in reverse order; ex. level 2 (diacritic ordering) in French.
If omitted (or C<$levelNumber> is C<undef> or C<\@levelNumbers> is C<[]>),
forwards at all the levels.

=item entry

-- see 5 Tailoring; 9.1 Allkeys File Format, UTS #10.

If the same character (or a sequence of characters) exists
in the collation element table through C<table>,
mapping to collation elements is overridden.
If it does not exist, the mapping is defined additionally.

entry => <<'ENTRY', # for DUCET v4.0.0 (allkeys-4.0.0.txt)
0063 0068 ; [.0E6A.0020.0002.0063] # ch
0043 0068 ; [.0E6A.0020.0007.0043] # Ch
0043 0048 ; [.0E6A.0020.0008.0043] # CH
006C 006C ; [.0F4C.0020.0002.006C] # ll
004C 006C ; [.0F4C.0020.0007.004C] # Ll
004C 004C ; [.0F4C.0020.0008.004C] # LL
00F1 ; [.0F7B.0020.0002.00F1] # n-tilde
006E 0303 ; [.0F7B.0020.0002.00F1] # n-tilde
00D1 ; [.0F7B.0020.0008.00D1] # N-tilde
004E 0303 ; [.0F7B.0020.0008.00D1] # N-tilde
ENTRY

entry => <<'ENTRY', # for DUCET v4.0.0 (allkeys-4.0.0.txt)
00E6 ; [.0E33.0020.0002.00E6][.0E8B.0020.0002.00E6] # ae ligature as <a><e>
00C6 ; [.0E33.0020.0008.00C6][.0E8B.0020.0008.00C6] # AE ligature as <A><E>
ENTRY

B<NOTE:> The code point in the UCA file format (before C<';'>)
B<must> be a Unicode code point (defined as hexadecimal),
but not a native code point.
So C<0063> must always denote C<U+0063>,
but not a character of C"x63".

Weighting may vary depending on collation element table.
So ensure the weights defined in C<entry> will be consistent with
those in the collation element table loaded via C<table>.

In DUCET v4.0.0, primary weight of C<C> is C<0E60>
and that of C<D> is C<0E6D>. So setting primary weight of C<CH> to C<0E6A>
(as a value between C<0E60> and C<0E6D>)
makes ordering as C<C E<lt> CH E<lt> D>.
Exactly speaking DUCET already has some characters between C<C> and C<D>:
C<small capital C> (C<U+1D04>) with primary weight C<0E64>,
C<c-hook/C-hook> (C<U+0188/U+0187>) with C<0E65>,
and C<c-curl> (C<U+0255>) with C<0E69>.
Then primary weight C<0E6A> for C<CH> makes C<CH>
ordered between C<c-curl> and C<D>.

=item hangul_terminator

-- see 7.1.4 Trailing Weights, UTS #10.

If a true value is given (non-zero but should be positive),
it will be added as a terminator primary weight to the end of
every standard Hangul syllable. Secondary and any higher weights
for terminator are set to zero.
If the value is false or C<hangul_terminator> key does not exist,
insertion of terminator weights will not be performed.

Boundaries of Hangul syllables are determined
according to conjoining Jamo behavior in F<the Unicode Standard>
and F<HangulSyllableType.txt>.

B<Implementation Note:>
(1) For expansion mapping (Unicode character mapped
to a sequence of collation elements), a terminator will not be added
between collation elements, even if Hangul syllable boundary exists there.
Addition of terminator is restricted to the next position
to the last collation element.

(2) Non-conjoining Hangul letters
(Compatibility Jamo, halfwidth Jamo, and enclosed letters) are not
automatically terminated with a terminator primary weight.
These characters may need terminator included in a collation element
table beforehand.

=item highestFFFF

-- see 2.4 Tailored noncharacter weights, UTS #35 (LDML) Part 5: Collation.

If the parameter is made true, C<U+FFFF> has a highest primary weight.
When a boolean of C<$coll-E<gt>ge($str, "abc")> and
C<$coll-E<gt>le($str, "abc\{FFFF\}")> is true, it is expected that C<$str>
begins with C"abc", or another primary equivalent.
C<$str> may be C"abcd", C"abc012", but should not include C<U+FFFF>
such as C"abc\{FFFF\}xyz".

C<$coll-E<gt>le($str, "abc\{FFFF\}")> works like C<$coll-E<gt>lt($str, "abd")>
almost, but the latter has a problem that you should know which letter is
next to C<ch>. For a certain language where C<ch> as the next letter, 
C"abch" is greater than C"abc\x{FFFF}" but less than C"abd".

Note:
This is equivalent to C<(entry =E<gt> 'FFFF ; [.FFF.E.0020.0005.FFFF])>.
Any other character than C<U+FFFF> can be tailored by C<entry>.

=item identical

-- see A.3 Deterministic Comparison, UTS #10.

By default, strings whose weights are equal should be equal, 
even though their code points are not equal.
Completely ignorable characters are ignored.

If the parameter is made true, a final, tie-breaking level is used.
If no difference of weights is found after the comparison through 
all the level specified by C<level>, the comparison with code points 
will be performed.
For the tie-breaking comparison, the sort key has code points 
of the original string appended.
Completely ignorable characters are not ignored.

If C<preprocess> and/or C<normalization> is applied, the code points 
of the string after them (in NFD by default) are used.

=item ignoreChar

=item ignoreName

-- see 3.6 Variable Weighting, UTS #10.

Makes the entry in the table completely ignorable; 
i.e. as if the weights were zero at all level.

Through C<ignoreChar>, any character matching C<qr/$ignoreChar/> 
will be ignored. Through C<ignoreName>, any character whose name 
(given in the C<table> file as a comment) matches C<qr/$ignoreName/> 
will be ignored.

E.g. when 'a' and 'e' are ignorable, 
'element' is equal to 'lament' (or 'lmnt').

=item ignore_level2

-- see 5.1 Parametric Tailoring, UTS #10.

By default, case-sensitive comparison (that is level 3 difference)
won't ignore accents (that is level 2 difference).

If the parameter is made true, accents (and other primary ignorable characters) are ignored, even though cases are taken into account.

**B<NOTE>**: **C<level>** should be 3 or greater.

=item katakana_before_hiragana

-- see 7.2 Tertiary Weight Table, UTS #10.

By default, hiragana is before katakana. If the parameter is made true, this is reversed.

**B<NOTE>**: This parameter simplistically assumes that any hiragana/katakana distinctions must occur in level 3, and their weights at level 3 must be same as those mentioned in 7.3.1, UTS #10.

If you define your collation elements which violate this requirement, this parameter does not work validly.

=item level

-- see 4.3 Form Sort Key, UTS #10.

Set the maximum level. Any higher levels than the specified one are ignored.

Level 1: alphabetic ordering
Level 2: diacritic ordering
Level 3: case ordering
Level 4: tie-breaking (e.g. in the case when variable is 'shifted')

ex.level => 2,

If omitted, the maximum is the 4th.

**B<NOTE>**: The DUCET includes weights over 0xFFF at the 4th level. But this module only uses weights within 0xFFF.

When **C<variable>** is 'blanked' or 'non-ignorable' (other than 'shifted' and 'shift-trimmed'), the level 4 may be unreliable.

See also **C<identical>**.

=item long_contraction

-- see 3.8.2 Well-Formedness of the DUCET, 4.2 Produce Array, UTS #10.

If the parameter is made true, for a contraction with three or more
characters (here nicknamed "long contraction"), initial substrings will be handled.
For example, a contraction ABC, where A is a starter, and B and C are non-starters (character with non-zero combining character class), will be detected even if there is not AB as a contraction.

B<Default:> Usually false.
If C<UCA_Version> is 22 or 24, and the value of C<long_contraction> is not specified in C<new()>, a true value is set implicitly.
This is a workaround to pass Conformance Tests for Unicode 6.0.0 and 6.1.0.

C<change()> handles C<long_contraction> explicitly only.
If C<long_contraction> is not specified in C<change()>, even though C<UCA_Version> is changed, C<long_contraction> will not be changed.

B<Limitation:> Scanning non-starters is one-way (no back tracking).
If AB is found but not ABC is not found, other long contraction where the first character is A and the second is not B may not be found.

Under C<(normalization =E<gt> undef)>, detection step of discontiguous contractions will be skipped.

B<Note:> The following contractions in DUCET are not considered in steps S2.1.1 to S2.1.3, where they are discontiguous.

0FB2 0F71 0F80 (TIBETAN VOWEL SIGN VOCALIC RR)
0FB3 0F71 0F80 (TIBETAN VOWEL SIGN VOCALIC LL)

For example C<TIBETAN VOWEL SIGN VOCALIC RR> with C<COMBINING TILDE OVERLAY> (C<U+0344>) is C<0FB2 0344 0F71 0F80> in NFD.
In this case C<0FB2 0F80> (C<TIBETAN VOWEL SIGN VOCALIC R>) is detected, instead of C<0FB2 0F71 0F80>.
Inserted C<0344> makes C<0FB2 0F71 0F80> discontiguous and lack of contraction C<0FB2 0F71> prohibits C<0FB2 0F71 0F80> from being detected.

=item minimalFFFE
-- see 1.1.1 U+FFFE, UTS #35 (LDML) Part 5: Collation.

If the parameter is made true, C<U+FFFE> has a minimal primary weight.
The comparison between C"$a1\times[FFFE]$a2" and C"$b1\times[FFFE]$b2" first compares C<$a1$> and C<$b1$> at level 1, and then C<$a2$> and C<$b2$> at level 1, as followed.

"ab\times[FFFE]a"
"Ab\times[FFFE]a"
"ab\times[FFFE]c"
"Ab\times[FFFE]c"
Note:
This is equivalent to `entry = 'FFFE : [.0001.0020.0005.FFFE]'`.
Any other character than `U+FFFE` can be tailored by `entry`.

=item normalization

-- see 4.1 Normalize, UTS #10.

If specified, strings are normalized before preparation of sort keys
(the normalization is executed after preprocess).

A form name `Unicode::Normalize::normalize()` accepts will be applied
as `normalization_form`.
Acceptable names include `NFD`, `NFC`, `NFKD`, and `NFKC`.
See `Unicode::Normalize::normalize()` for detail.
If omitted, `NFD` is used.

`normalization` is performed after `preprocess` (if defined).

Furthermore, special values, `undef` and `"prenormalized"`, can be used,
though they are not concerned with `Unicode::Normalize::normalize()`.

If `undef` (not a string `"undef"`) is passed explicitly
as the value for this key,
any normalization is not carried out (this may make tailoring easier
if any normalization is not desired). Under `normalization = undef`,
only contiguous contractions are resolved;
e.g. even if `A-ring` (and `A-ring-cedilla`) is ordered after `Z`,
`A-cedilla-ring` would be primary equal to `A`.
In this point,
C<(normalization = undef, preprocess = sub { NFD(shift) })>
B<is not> equivalent to C<(normalization = 'NFD')>.

In the case of C<(normalization = "prenormalized"),
any normalization is not performed, but
discontiguous contractions with combining characters are performed.
Therefore
C<(normalization = 'prenormalized', preprocess = sub { NFD(shift) })>
B<is> equivalent to C<(normalization = 'NFD')>.
If source strings are finely prenormalized, 
C<(normalization =E<gt> 'prenormalized')> may save time for normalization.

Except C<(normalization =E<gt> undef)>, 
B<Unicode::Normalize> is required (see also B<CAVEAT>).

=item overrideCJK

-- see 7.1 Derived Collation Elements, UTS #10.

By default, CJK unified ideographs are ordered in Unicode codepoint 
order, but those in the CJK Unified Ideographs block are less than 
those in the CJK Unified Ideographs Extension A etc.

In the CJK Unified Ideographs block:
U+4E00..U+9FA5 if UCA_Version is 8, 9 or 11.
U+4E00..U+9FBB if UCA_Version is 14 or 16.
U+4E00..U+9FC3 if UCA_Version is 18.
U+4E00..U+9FCC if UCA_Version is 20 or 22.
U+4E00..U+9FCC if UCA_Version is 24 to 30.
U+4E00..U+9FD5 if UCA_Version is 32 or 34.
U+4E00..U+9FEA if UCA_Version is 36.

In the CJK Unified Ideographs Extension blocks:
Ext.A (U+3400..U+4DB5) and Ext.B (U+20000..U+2A6D6) in any UCA_Version.
Ext.C (U+2A700..U+2B734) if UCA_Version is 20 or later.
Ext.D (U+2B740..U+2B81D) if UCA_Version is 22 or later.
Ext.E (U+2B820..U+2CEA1) if UCA_Version is 32 or later.
Ext.F (U+2CEB0..U+2EBE0) if UCA_Version is 36.

Through C<overrideCJK>, ordering of CJK unified ideographs (including 
extensions) can be overridden.

ex. CJK unified ideographs in the JIS code point order.

overrideCJK => sub {
  my $u = shift;             # get a Unicode codepoint
  my $b = pack('n', $u);     # to UTF-16BE
  my $s = your_unicode_to_sjis_converter($b); # convert
  my $n = unpack('n', $s);   # convert sjis to short
  [ $n, 0x20, 0x2, $u ];     # return the collation element
},

The return value may be an arrayref of 1st to 4th weights as shown 
above. The return value may be an integer as the primary weight 
as shown below. If C<undef> is returned, the default derived 
collation element will be used.
overrideCJK => sub {
    my $u = shift;  # get a Unicode codepoint
    my $b = pack('n', $u);  # to UTF-16BE
    my $s = your_unicode_to_sjis_converter($b);  # convert
    my $n = unpack('n', $s);  # convert sjis to short
    return $n;  # return the primary weight
},

The return value may be a list containing zero or more of an arrayref, an integer, or C<undef>.
ex. ignores all CJK unified ideographs.

overrideCJK => sub {()}, # CODEREF returning empty list

    # where ->eq("Pe\x{4E00}rl", "Perl") is true
    # as U+4E00 is a CJK unified ideograph and to be ignorable.

If a false value (including C<undef>) is passed, C<overrideCJK>
has no effect.
C<$Collator->change(overrideCJK =E<gt> 0)> resets the old one.

But assignment of weight for CJK unified ideographs
in C<table> or C<entry> is still valid.
If C<undef> is passed explicitly as the value for this key,
weights for CJK unified ideographs are treated as undefined.
However when C<UCA_Version> E<gt> 8, C<(overrideCJK =E<gt> undef)> has no special meaning.

B<Note:> In addition to them, 12 CJK compatibility ideographs (C<U+FA0E>, C<U+FA0F>, C<U+FA11>, C<U+FA13>, C<U+FA14>, C<U+FA1F>, C<U+FA21>, C<U+FA23>, C<U+FA24>, C<U+FA27>, C<U+FA28>, C<U+FA29>) are also treated as CJK unified ideographs. But they can't be overridden via C<overrideCJK> when you use DUCET, as the table includes weights for them. C<table> or C<entry> has priority over C<overrideCJK>.

=item overrideHangul

-- see 7.1 Derived Collation Elements, UTS #10.

By default, Hangul syllables are decomposed into Hangul Jamo,
even if C<(normalization =E<gt> undef)>.
But the mapping of Hangul syllables may be overridden.

This parameter works like C<overrideCJK>, so see there for examples.

If you want to override the mapping of Hangul syllables,
NFD and NFKD are not appropriate, since NFD and NFKD will decompose
Hangul syllables before overriding. FCD may decompose Hangul syllables as the case may be.

If a false value (but not C<undef>) is passed, C<overrideHangul> has no effect.
C<$Collator-E<gt>change(overrideHangul =E<gt> 0)> resets the old one.

If C<undef> is passed explicitly as the value for this key, weight for Hangul syllables is treated as undefined without decomposition into Hangul Jamo.
But definition of weight for Hangul syllables in C<table> or C<entry> is still valid.

=item overrideOut

-- see 7.1.1 Handling Ill-Formed Code Unit Sequences, UTS #10.

Perl seems to allow out-of-range values (greater than 0x10FFFF).
By default, out-of-range values are replaced with C<U+FFFD> (REPLACEMENT CHARACTER) when C<UCA_Version> E<gt>= 22, or ignored when C<UCA_Version> E<lt>= 20.

When C<UCA_Version> E<gt>= 22, the weights of out-of-range values can be overridden. Though C<table> or C<entry> are available for them, out-of-range values are too many.

C<overrideOut> can perform it algorithmically.
This parameter works like C<overrideCJK>, so see there for examples.

ex. ignores all out-of-range values.

overrideOut => sub {()}, # CODEREF returning empty list

If a false value (including C<undef>) is passed, C<overrideOut> has no effect.
C<$Collator-E<gt>change(overrideOut =E<gt> 0)> resets the old one.

B<NOTE ABOUT U+FFFD:>

UCA recommends that out-of-range values should not be ignored for security reasons. Say, C<"pe\x{110000}\r\n"> should not be equal to C<"perl">.
However, C<U+FFFD> is wrongly mapped to a variable collation element in DUCET for Unicode 6.0.0 to 6.2.0, that means out-of-range values will be ignored when C<variable> isn't C<Non-ignorable>.

The mapping of C<U+FFFD> is corrected in Unicode 6.3.0.
see L<http://www.unicode.org/reports/tr10/tr10-28.html#Trailing_Weights> (7.1.4 Trailing Weights). Such a correction is reproduced by this.
overrideOut => sub { 0xFFFD }, # CODEREF returning a very large integer

This workaround is unnecessary since Unicode 6.3.0.

=item preprocess

-- see 5.4 Preprocessing, UTS #10.

If specified, the coderef is used to preprocess each string before the formation of sort keys.

ex. dropping English articles, such as "a" or "the".
Then, "the pen" is before "a pencil".

    preprocess => sub {
        my $str = shift;
        $str =~ s/\b(?:an?|the)\s+/\+//gi;
        return $str;
    },

C<preprocess> is performed before C<normalization> (if defined).

ex. decoding strings in a legacy encoding such as shift-jis:

    $sjis_collator = Unicode::Collate->new(
        preprocess => \&your_shiftjis_to_unicode_decoder,
    );
    @result = $sjis_collator->sort(@shiftjis_strings);

B<Note:> Strings returned from the coderef will be interpreted according to Perl's Unicode support. See L<perlunicode>, L<perluniintro>, L<perlunitut>, L<perlunifaq>, L<utf8>.

=item rearrange

-- see 3.5 Rearrangement, UTS #10.

Characters that are not coded in logical order and to be rearranged.
If C<UCA_Version> is equal to or less than 11, default is:

    rearrange => [ 0x0E40..0x0E44, 0x0EC0..0x0EC4 ],

If you want to disallow any rearrangement, pass C<undef> or C<[]> (a reference to empty list) as the value for this key.

If C<UCA_Version> is equal to or greater than 14, default is C<[]> (i.e. no rearrangement).
According to the version 9 of UCA, this parameter shall not be used; but it is not warned at present.

=item rewrite

If specified, the coderef is used to rewrite lines in C<table> or C<entry>. The coderef will get each line, and then should return a rewritten line according to the UCA file format. If the coderef returns an empty line, the line will be skipped.

e.g. any primary ignorable characters into tertiary ignorable:

```
rewrite => sub {
    my $line = shift;
    $line =~ s/\[.0000.0000.0000./\[.0000\..{4}\..{4}\..{4}\..{4}\..{4\}/g;
    return $line;
},
```

This example shows rewriting weights. C<rewrite> is allowed to affect code points, weights, and the name.

=NOTE: C<table> is available to use another table file; preparing a modified table once would be more efficient than rewriting lines on reading an unmodified table every time.

=item suppress

-- see 3.12 Special-Purpose Commands, UTS #35 (LDML) Part 5: Collation.

Contractions beginning with the specified characters are suppressed, even if those contractions are defined in C<table>.

An example for Russian and some languages using the Cyrillic script:

```
suppress => [0x0400..0x0417, 0x041A..0x0437, 0x043A..0x045F],
```

where 0x0400 stands for C<U+0400>, CYRILLIC CAPITAL LETTER IE WITH GRAVE.

=NOTE: Contractions via C<entry> will not be suppressed.

=item table

-- see 3.8 Default Unicode Collation Element Table, UTS #10.

You can use another collation element table if desired.

The table file should locate in the F<Unicode/Collate> directory.
on C<$@INC>.

Say, if the filename is F<Foo.txt>,
the table file is searched as F<Unicode/Collate/Foo.txt> in C<$@INC>.

By default, F<allkeys.txt> (as the filename of DUCET) is used.
If you will prepare your own table file, any name other than F<allkeys.txt>
may be better to avoid namespace conflict.

B<NOTE>: When XSUB is used, the DUCET is compiled on building this
module, and it may save time at the run time.
Explicit saying C<table =E<gt> 'allkeys.txt'>, or using another table,
or using C<ignoreChar>, C<ignoreName>, C<undefChar>, C<undefName> or
C<rewrite> will prevent this module from using the compiled DUCET.

If C<undef> is passed explicitly as the value for this key,
no file is read (but you can define collation elements via C<entry>).

A typical way to define a collation element table
without any file of table:

$onlyABC = Unicode::Collate->new(
     table => undef,
     entry => << 'ENTRIES',
0061 : [:0101.0020.0002.0061] # LATIN SMALL LETTER A
0041 : [:0101.0020.0008.0041] # LATIN CAPITAL LETTER A
0062 : [:0102.0020.0002.0062] # LATIN SMALL LETTER B
0042 : [:0102.0020.0008.0042] # LATIN CAPITAL LETTER B
0063 : [:0103.0020.0002.0063] # LATIN SMALL LETTER C
0043 : [:0103.0020.0008.0043] # LATIN CAPITAL LETTER C
ENTRIES
);}

If C<ignoreName> or C<undefName> is used, character names should be
specified as a comment (following C<#>) on each line.

=item undefChar

=item undefName

-- see 6.3.3 Reducing the Repertoire, UTS #10.

Undefines the collation element as if it were unassigned in the C<table>.
This reduces the size of the table.
If an unassigned character appears in the string to be collated,
the sort key is made from its codepoint
as a single-character collation element,
as it is greater than any other assigned collation elements
(in the codepoint order among the unassigned characters).
But, it'd be better to ignore characters
unfamiliar to you and maybe never used.

Through C<s/undefChar>, any character matching C<qr/$undefChar/> will be undefined. Through C<s/undefName>, any character whose name (given in the C<table> file as a comment) matches C<qr/$undefName/> will be undefined.

ex. Collation weights for beyond-BMP characters are not stored in object:

    undefChar => qr/[\^0-\x{fffd}]/,

=item upper_before_lower

-- see 6.6 Case Comparisons, UTS #10.

By default, lowercase is before uppercase. If the parameter is made true, this is reversed.

B<NOTE>: This parameter simplistically assumes that any lowercase/uppercase distinctions must occur in level 3, and their weights at level 3 must be the same as those mentioned in 7.3.1, UTS #10. If you define your collation elements which differs from this requirement, this parameter doesn't work validly.

=item variable

-- see 3.6 Variable Weighting, UTS #10.

This key allows for variable weighting of variable collation elements, which are marked with an ASTERISK in the table (NOTE: Many punctuation marks and symbols are variable in F<allkeys.txt>).

    variable => 'blanked', 'non-ignorable', 'shifted', or 'shift-trimmed'.

These names are case-insensitive. By default (if specification is omitted), 'shifted' is adopted.

    'Blanked' Variable elements are made ignorable at levels 1 through 3; considered at the 4th level.

    'Non-Ignorable' Variable elements are not reset to ignorable.

    'Shifted' Variable elements are made ignorable at levels 1 through 3 their level 4 weight is replaced by the old level 1 weight. Level 4 weight for Non-Variable elements is 0xFFFF.

    'Shift-Trimmed' Same as 'shifted', but all FFFF's at the 4th level are trimmed.
Methods for Collation

- `@sorted = $Collator->sort(@not_sorted)`

  Sorts a list of strings.

- `$result = $Collator->cmp($a, $b)`

  Returns 1 (when `$a` is greater than `$b`)  
  or 0 (when `$a` is equal to `$b`) 
  or -1 (when `$a` is less than `$b`).

- `$result = $Collator->eq($a, $b)`

- `$result = $Collator->ne($a, $b)`

- `$result = $Collator->lt($a, $b)`

- `$result = $Collator->le($a, $b)`

- `$result = $Collator->gt($a, $b)`

- `$result = $Collator->ge($a, $b)`

  They work like the same name operators as theirs.

  - `eq` : whether `$a` is equal to `$b`.
  - `ne` : whether `$a` is not equal to `$b`.
  - `lt` : whether `$a` is less than `$b`.
  - `le` : whether `$a` is less than `$b` or equal to `$b`.
  - `gt` : whether `$a` is greater than `$b`.
  - `ge` : whether `$a` is greater than `$b` or equal to `$b`.

- `$sortKey = $Collator->getSortKey($string)`

  -- see 4.3 Form Sort Key, UTS #10.

  Returns a sort key.

  You compare the sort keys using a binary comparison 
  and get the result of the comparison of the strings using UCA.

  `$Collator->getSortKey($a)` cmp `$Collator->getSortKey($b)`
is equivalent to

$Collator->cmp($a, $b)

=item C<$sortKeyForm = $Collator->viewSortKey($string)>

Converts a sorting key into its representation form.
If C<UCA_Version> is 8, the output is slightly different.

use Unicode::Collate;
my $c = Unicode::Collate->new();
print $c->viewSortKey("Perl"),"n";

# output:
# [0B67 0A65 0B7F 0B03 | 0020 0020 0020 0020 | 0008 0002 0002 0002 | FFFF FFFF FFFF FFFF]
# Level 1               Level 2               Level 3               Level 4

=head2 Methods for Searching

The C<match>, C<gmatch>, C<subst>, C<gsubst> methods work
like C<m//>, C<m//g>, C<s///>, C<s///g>, respectively,
but they are not aware of any pattern, but only a literal substring.

B<DISCLAIMER:> If C<preprocess> or C<normalization> parameter is true
for C<$Collator>, calling these methods (C<index>, C<match>, C<gmatch>,
C<subst>, C<gsubst>) is croaked, as the position and the length might
differ from those on the specified string.

C<rarrang> and C<hangul_terminator> parameters are neglected.
C<katakana_before_hiragana> and C<upper_before_lower> don't affect
matching and searching, as it doesn't matter whether greater or less.

=over 4

=item C<$position = $Collator->index($string, $substring[, $position])>

=item C<$($position, $length) = $Collator->index($string, $substring[, $position])>

If C<$substring> matches a part of C<$string>, returns
the position of the first occurrence of the matching part in scalar context;
in list context, returns a two-element list of
the position and the length of the matching part.

If C<$substring> does not match any part of C<$string>,
returns C<-1> in scalar context and
an empty list in list context.

e.g. when the content of C<$str> is C"Ich muÈšligC< studieren Perl.">,
you say the following where C<$sub> is C"MÈ¹umlC<SS">,

my $Collator = Unicode::Collate->new( normalization => undef, level => 1 );
   # (normalization => undef) is REQUIRED.

my $match;
if (my($pos,$len) = $Collator->index($str, $sub)) {
   $match = substr($str, $pos, $len);
}

and get C"muÈšligC<" in C<$match>, since C"muÈšligC<" is primary equal to C"MÈ¹umlC<SS">.

=item C<$match_ref = $Collator->match($string, $substring)>

=item C<($match)   = $Collator->match($string, $substring)>

If C<$substring> matches a part of C<$string>, in scalar context, returns
B<a reference to> the first occurrence of the matching part
(C<$match_ref> is always true if matches,
since every reference is B<true>);
in list context, returns the first occurrence of the matching part.

If C<$substring> does not match any part of C<$string>,
returns C<undef> in scalar context and
an empty list in list context.

e.g.

   if ($match_ref = $Collator->match($str, $sub)) { # scalar context
      print "matches [$match_ref].\n";
   } else {
      print "doesn't match.\n";
   }

   or

   if (($match) = $Collator->match($str, $sub)) { # list context
      print "matches [$match].\n";
   } else {
      print "doesn't match.\n";
   }

=item C<@match = $Collator->gmatch($string, $substring)>

If C<$substring> matches a part of C<$string>, returns
all the matching parts (or matching count in scalar context).

If C<$substring> does not match any part of C<$string>,
returns an empty list.

=item C<$count = $Collator-E<gt>subst($string, $substring, $replacement)>

If C<$substring> matches a part of C<$string>,
the first occurrence of the matching part is replaced by C<$replacement>
(C<$string> is modified) and C<$count> (always equals to C<1>) is returned.

C<$replacement> can be a C<CODEREF>,
taking the matching part as an argument,
and returning a string to replace the matching part
(a bit similar to C<s/(..)/$coderef-E<gt>($1)/e>).

=item C<$count = $Collator-E<gt>gsubst($string, $substring, $replacement)>

If C<$substring> matches a part of C<$string>,
all the occurrences of the matching part are replaced by C<$replacement>
(C<$string> is modified) and C<$count> is returned.

C<$replacement> can be a C<CODEREF>,
taking the matching part as an argument,
and returning a string to replace the matching part
(a bit similar to C<s/(..)/$coderef-E<gt>($1)/eg>).

# examples

e.g.

my $Collator = Unicode::Collate->new( normalization => undef, level => 1 );
  # (normalization => undef) is REQUIRED.
my $str = "Camel donkey zebra came\x{301}l CAMEL horse cam\0e\0l...;"
$Collator->gsubst($str, "camel", sub { "<b>$_[0]</b>" });

# now $str is "<b>Camel</b> donkey zebra <b>came\x{301}l</b> <b>CAMEL</b> horse <b>cam\0e\0l</b>...;"
# i.e., all the camels are made bold-faced.

Examples: levels and ignore_level2 - what does camel match?

<table>
<thead>
<tr>
<th>level</th>
<th>ignore_level2</th>
<th>camel</th>
<th>Camel</th>
<th>came\x{301}l</th>
<th>c-a-m-e-l</th>
<th>cam\0e\0l</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>false</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>2</td>
<td>false</td>
<td>yes</td>
<td>yes</td>
<td>no</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>3</td>
<td>false</td>
<td>yes</td>
<td>no</td>
<td>no</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>4</td>
<td>false</td>
<td>yes</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>yes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>level</th>
<th>ignore_level2</th>
<th>camel</th>
<th>Camel</th>
<th>came\x{301}l</th>
<th>c-a-m-e-l</th>
<th>cam\0e\0l</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>true</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>2</td>
<td>true</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
</tbody>
</table>
Changes the value of specified keys and returns the changed part.

$Collator = Unicode::Collate->new(level => 4);

$Collator->eq("perl", "PERL"); # false

%old = $Collator->change(level => 2); # returns (level => 4).

$Collator->eq("perl", "PERL"); # true

$Collator->change(%old); # returns (level => 2).

$Collator->eq("perl", "PERL"); # false

Not all (key, value)s are allowed to be changed.
See also C<@Unicode::Collate::ChangeOK> and C<@Unicode::Collate::ChangeNG>.

In the scalar context, returns the modified collator (but it is B<not> a clone from the original).

$Collator->change(level => 2)->eq("perl", "PERL"); # true

$Collator->eq("perl", "PERL"); # true; now max level is 2nd.

$Collator->change(level => 4)->eq("perl", "PERL"); # false

$version = $Collator->version();

Returns the version number (a string) of the Unicode Standard which the C<table> file used by the collator object is based on.
If the table does not include a version line (starting with C<@version>), returns C<"unknown">.
=item C<UCA_Version()>

Returns the revision number of UTS #10 this module consults,
that should correspond with the DUCET incorporated.

=item C<Base_Unicode_Version()>

Returns the version number of UTS #10 this module consults,
that should correspond with the DUCET incorporated.

=back

=head1 EXPORT

No method will be exported.

=head1 INSTALL

Though this module can be used without any C<table> file,
to use this module easily, it is recommended to install a table file
in the UCA format, by copying it under the directory
<a place in @INC>/Unicode/Collate.

The most preferable one is "The Default Unicode Collation Element Table"
(aka DUCET), available from the Unicode Consortium's website:

http://www.unicode.org/Public/UCA/

http://www.unicode.org/Public/UCA/latest/allkeys.txt
(latest version)

If DUCET is not installed, it is recommended to copy the file
from http://www.unicode.org/Public/UCA/latest/allkeys.txt
to <a place in @INC>/Unicode/Collate/allkeys.txt
manually.

=head1 CAVEATS

=over 4

=item Normalization

Use of the C<normalization> parameter requires the B<Unicode::Normalize>
module (see L<Unicode::Normalize>).

If you need not it (say, in the case when you need not
handle any combining characters),
assign C\((\text{normalization} = E\gt \text{undef})\) explicitly.

-- see 6.5 Avoiding Normalization, UTS #10.

=item Conformance Test

The Conformance Test for the UCA is available under L\(<\text{http://www.unicode.org/Public/UCA/}>\).

For F\(<\text{CollationTest}_\text{SHIFTED}.txt>\), a collator via C\(<\text{Unicode::Collate-E}\gt\text{new( )}>\) should be used; for F\(<\text{CollationTest}_\text{NON_IGNORABLE}.txt>\), a collator via C\(<\text{Unicode::Collate-E}\gt\text{new(}\text{variable} = E\gt\text{"non-ignorable"}, \text{level} = E\gt3)>\).

If C\(<\text{UCA}_\text{Version}>\) is 26 or later, the C\(<\text{identical}>\) level is preferred; C\(<\text{Unicode::Collate-E}\gt\text{new(}\text{identical} = E\gt1)>\) and C\(<\text{variable} = E\gt\text{"non-ignorable"}, \text{level} = E\gt3)>\) should be used.

B\(<\text{Unicode::Normalize is required to try The Conformance Test}>\)

=back

=head1 AUTHOR, COPYRIGHT AND LICENSE

The Unicode::Collate module for perl was written by SADAHIRO Tomoyuki, \(<\text{SADAHIRO@cpan.org}>\). This module is Copyright(C) 2001-2017, SADAHIRO Tomoyuki. Japan. All rights reserved.

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For this file, Copyright (c) 2016 Unicode, Inc.; distributed under the Terms of Use in L\(<\text{http://www.unicode.org/terms_of_use.html}>\)

=head1 SEE ALSO

=over 4

=item Unicode Collation Algorithm - UTS #10

L\(<\text{http://www.unicode.org/reports/tr10/}>\)

=item The Default Unicode Collation Element Table (DUCET)

L\(<\text{http://www.unicode.org/Public/UCA/latest/allkeys.txt}>\)
The conformance test for the UCA

L<http://www.unicode.org/Public/UCA/latest/CollationTest.html>
L<http://www.unicode.org/Public/UCA/latest/CollationTest.zip>

Hangul Syllable Type

L<http://www.unicode.org/Public/UNIDATA/HangulSyllableType.txt>

Unicode Normalization Forms - UAX #15

L<http://www.unicode.org/reports/tr15/>

Unicode Locale Data Markup Language (LDML) - UTS #35

L<http://www.unicode.org/reports/tr35/>

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NAME

Unicode::Collate::Locale - Linguistic tailoring for DUCET via Unicode::Collate

SYNOPSIS

use Unicode::Collate::Locale;

#construct
$Collator = Unicode::Collate::Locale->
    new(locale => $locale_name, %tailoring);

#sort
@sorted = $Collator->sort(@not_sorted);

#compare
$result = $Collator->cmp($a, $b); # returns 1, 0, or -1.

B<Note:> Strings in C:@not_sorted>, C@$a> and C@$b> are interpreted
according to Perl's Unicode support. See L<perlunicode>,
=head1 DESCRIPTION

This module provides linguistic tailoring for it taking advantage of C<Unicode::Collate>.

=head2 Constructor

The C<new> method returns a collator object.

A parameter list for the constructor is a hash, which can include a special key C<locale> and its value (case-insensitive) standing for a Unicode base language code (two or three-letter). For example, C<Unicode::Collate::Locale-E<gt>new(locale =E<gt> 'ES')> returns a collator tailored for Spanish.

C<$locale_name> may be suffixed with a Unicode script code (four-letter), a Unicode region (territory) code, a Unicode language variant code. These codes are case-insensitive, and separated with C<'_'> or C<'-'>. E.g. C<en_US> for English in USA, C<az_Cyrl> for Azerbaijani in the Cyrillic script, C<es_ES_traditional> for Spanish in Spain (Traditional).

If C<$locale_name> is not available, fallback is selected in the following order:

1. language with a variant code
2. language with a script code
3. language with a region code
4. language
5. default

Tailoring tags provided by C<Unicode::Collate> are allowed as long as they are not used for C<locale> support. Esp. the C<table> tag is always untailorable, since it is reserved for DUCET.

However C<entry> is allowed, even if it is used for C<locale> support, to add or override mappings.

E.g. a collator for Spanish, which ignores diacritics and case difference (i.e. level 1), with reversed case ordering and no normalization.

    Unicode::Collate::Locale->new(
        level => 1,
        locale => 'es',
    )
Overriding a behavior already tailored by \texttt{locale} is disallowed if such a tailoring is passed to \texttt{new}.

\begin{verbatim}
Unicode::Collate::Locale->new(
  locale => 'da',
  upper_before_lower => 0, # causes error as reserved by 'da'
)
\end{verbatim}

However \texttt{change} inherited from \texttt{Unicode::Collate} allows such a tailoring that is reserved by \texttt{locale}. Examples:

\begin{verbatim}
  new(locale => 'fr_ca')->change(backwards => undef)
  new(locale => 'da')->change(upper_before_lower => 0)
  new(locale => 'ja')->change(overrideCJK => undef)
\end{verbatim}

=head2 Methods

\texttt{Unicode::Collate::Locale} is a subclass of \texttt{Unicode::Collate} and methods other than \texttt{new} are inherited from \texttt{Unicode::Collate}.

Here is a list of additional methods:

=over 4

=item \texttt{Collator->getlocale}

Returns a language code accepted and used actually on collation.
If linguistic tailoring is not provided for a language code you passed (intentionally for some languages, or due to the incomplete implementation), this method returns a string \texttt{'default'} meaning no special tailoring.

=item \texttt{Collator->locale_version}

(Since Unicode::Collate::Locale 0.87)
Returns the version number (perhaps \texttt{<d\d/>}) of the locale, as that of \texttt{Locale/*.pl}.

B<Note:> \texttt{Locale/*.pl} that a collator uses should be identified by a combination of return values from \texttt{getlocale} and \texttt{locale_version}.

=back

=head2 A list of tailorable locales
<table>
<thead>
<tr>
<th>locale name</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>af</td>
<td>Afrikaans</td>
</tr>
<tr>
<td>ar</td>
<td>Arabic</td>
</tr>
<tr>
<td>as</td>
<td>Assamese</td>
</tr>
<tr>
<td>az</td>
<td>Azerbaijani (Azeri)</td>
</tr>
<tr>
<td>be</td>
<td>Belarusian</td>
</tr>
<tr>
<td>bn</td>
<td>Bengali</td>
</tr>
<tr>
<td>bs</td>
<td>Bosnian (tailored as Croatian)</td>
</tr>
<tr>
<td>bs_Cyrl</td>
<td>Bosnian in Cyrillic (tailored as Serbian)</td>
</tr>
<tr>
<td>ca</td>
<td>Catalan</td>
</tr>
<tr>
<td>cs</td>
<td>Czech</td>
</tr>
<tr>
<td>cy</td>
<td>Welsh</td>
</tr>
<tr>
<td>da</td>
<td>Danish</td>
</tr>
<tr>
<td>de_phonebook</td>
<td>German (umlaut as 'ae', 'oe', 'ue')</td>
</tr>
<tr>
<td>de_AT_phonebook</td>
<td>Austrian German (umlaut primary greater)</td>
</tr>
<tr>
<td>dsb</td>
<td>Lower Sorbian</td>
</tr>
<tr>
<td>ee</td>
<td>Ewe</td>
</tr>
<tr>
<td>eo</td>
<td>Esperanto</td>
</tr>
<tr>
<td>es</td>
<td>Spanish</td>
</tr>
<tr>
<td>es__traditional</td>
<td>Spanish ('ch' and 'll' as a grapheme)</td>
</tr>
<tr>
<td>et</td>
<td>Estonian</td>
</tr>
<tr>
<td>fa</td>
<td>Persian</td>
</tr>
<tr>
<td>fi</td>
<td>Finnish (v and w are primary equal)</td>
</tr>
<tr>
<td>fi_phonebook</td>
<td>Finnish (v and w as separate characters)</td>
</tr>
<tr>
<td>fil</td>
<td>Filipino</td>
</tr>
<tr>
<td>fo</td>
<td>Faroese</td>
</tr>
<tr>
<td>fr_CA</td>
<td>Canadian French</td>
</tr>
<tr>
<td>gu</td>
<td>Gujarati</td>
</tr>
<tr>
<td>ha</td>
<td>Hausa</td>
</tr>
<tr>
<td>haw</td>
<td>Hawaiian</td>
</tr>
<tr>
<td>he</td>
<td>Hebrew</td>
</tr>
<tr>
<td>hi</td>
<td>Hindi</td>
</tr>
<tr>
<td>hr</td>
<td>Croatian</td>
</tr>
<tr>
<td>hu</td>
<td>Hungarian</td>
</tr>
<tr>
<td>hy</td>
<td>Armenian</td>
</tr>
<tr>
<td>ig</td>
<td>Igbo</td>
</tr>
<tr>
<td>is</td>
<td>Icelandic</td>
</tr>
<tr>
<td>ja</td>
<td>Japanese [1]</td>
</tr>
<tr>
<td>kk</td>
<td>Kazakh</td>
</tr>
<tr>
<td>kl</td>
<td>Kalaallisut</td>
</tr>
<tr>
<td>kn</td>
<td>Kannada</td>
</tr>
<tr>
<td>ko</td>
<td>Korean [2]</td>
</tr>
<tr>
<td>kok</td>
<td>Konkani</td>
</tr>
<tr>
<td>lkt</td>
<td>Lakota</td>
</tr>
<tr>
<td>ln</td>
<td>Lingala</td>
</tr>
<tr>
<td>lt</td>
<td>Lithuanian</td>
</tr>
<tr>
<td>lv</td>
<td>Latvian</td>
</tr>
</tbody>
</table>
mk    Macedonian
ml    Malayalam
mr    Marathi
mt    Maltese
nb    Norwegian Bokmal
nn    Norwegian Nynorsk
nso   Northern Sotho
om    Oromo
or    Oriya
pa    Punjabi
pl    Polish
ro    Romanian
sa    Sanskrit
se    Northern Sami
si    Sinhala
si__dictionary Sinhala (U+0DA5 = U+0DA2,0DCA,0DA4)
sk    Slovak
sl    Slovenian
sq    Albanian
sr    Serbian
sr_Latn Serbian in Latin (tailored as Croatian)
sv    Swedish (v and w are primary equal)
sv__reformed Swedish (v and w as separate characters)
ta    Tamil
te    Telugu
th    Thai
tn    Tswana
to    Tonga
tr    Turkish
ug_Cyrl Uyghur in Cyrillic
uk    Ukrainian
ur    Urdu
vi    Vietnamese
vo    Volapuk
waec   Walser
wo    Wolof
yo    Yoruba
zh    Chinese
zh__big5han Chinese (ideographs: big5 order)
zh__gb2312han Chinese (ideographs: GB-2312 order)
zh__pinyin Chinese (ideographs: pinyin order) [3]
zh__stroke Chinese (ideographs: stroke order) [3]
zh__zhuyin Chinese (ideographs: zhuyin order) [3]

Locales according to the default UCA rules include
am (Amharic) without C<reorder Ethi>,
bg (Bulgarian) without C<reorder Cyril>,

chr (Cherokee) without C<reorder Cher>,
de (German),
en (English),
fr (French),
ga (Irish),
id (Indonesian),
it (Italian),
ka (Georgian) without C<reorder Geor>,
mn (Mongolian) without C<reorder Cyrl Mong>,
ms (Malay),
nl (Dutch),
pt (Portuguese),
ru (Russian) without C<reorder Cyrl>,
sw (Swahili),
zu (Zulu).

B<Note>

[1] ja: Ideographs are sorted in JIS X 0208 order. Fullwidth and halfwidth forms are identical to their regular form. The difference between hiragana and katakana is at the 4th level, the comparison also requires C<variable =E<gt> 'Non-ignorable'>, and then C<katakana_before_hiragana> has no effect.

[2] ko: Plenty of ideographs are sorted by their reading. Such an ideograph is primary (level 1) equal to, and secondary (level 2) greater than, the corresponding hangul syllable.

[3] zh__pinyin, zh__stroke and zh__zhuyin: implemented alt='short', where a smaller number of ideographs are tailored.

=head2 A list of variant codes and their aliases

<table>
<thead>
<tr>
<th>variant code</th>
<th>alias</th>
</tr>
</thead>
<tbody>
<tr>
<td>dictionary</td>
<td>dict</td>
</tr>
<tr>
<td>phonebook</td>
<td>phone phonebk</td>
</tr>
<tr>
<td>reformed</td>
<td>reform</td>
</tr>
<tr>
<td>traditional</td>
<td>trad</td>
</tr>
<tr>
<td>big5han</td>
<td>big5</td>
</tr>
<tr>
<td>gb2312han</td>
<td>gb2312</td>
</tr>
<tr>
<td>pinyin</td>
<td></td>
</tr>
<tr>
<td>stroke</td>
<td></td>
</tr>
<tr>
<td>zhuyin</td>
<td></td>
</tr>
</tbody>
</table>

Note: 'pinyin' is Han in Latin, 'zhuyin' is Han in Bopomofo.
=head1 INSTALL

Installation of C<Unicode::Collate::Locale> requires F<Collate/Locale.pm>, F<Collate/Locale/*.pm>, F<Collate/CJK/*.pm> and F<Collate/allkeys.txt>. On building, C<Unicode::Collate::Locale> doesn't require any of F<data/*.txt>, F<gendata/*>, and F<mklocale>. Tests for C<Unicode::Collate::Locale> are named F<t/loc_*.t>.

=head1 CAVEAT

=over 4

=item Tailoring is not maximum

Even if a certain letter is tailored, its equivalent would not always tailored as well as it. For example, even though W is tailored, fullwidth W (C<U+FF37>), W with acute (C<U+1E82>), etc. are not tailored. The result may depend on whether source strings are normalized or not, and whether decomposed or composed. Thus C<(normalization =E<gt> undef)> is less preferred.

=item Collation reordering is not supported

The order of any groups including scripts is not changed.

=back

=head2 Reference

<table>
<thead>
<tr>
<th>locale</th>
<th>based CLDR or other reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>af</td>
<td>30 = 1.8.1</td>
</tr>
<tr>
<td>ar</td>
<td>30 = 28 (&quot;compat&quot; wo [reorder Arab]) = 1.9.0</td>
</tr>
<tr>
<td>as</td>
<td>30 = 28 (without [reorder Beng..]) = 23</td>
</tr>
<tr>
<td>az</td>
<td>30 = 24 (&quot;standard&quot; wo [reorder Latin Cyril])</td>
</tr>
<tr>
<td>be</td>
<td>30 = 28 (without [reorder Cyril])</td>
</tr>
<tr>
<td>bn</td>
<td>30 = 28 (&quot;standard&quot; wo [reorder Beng..]) = 2.0.1</td>
</tr>
<tr>
<td>bs</td>
<td>30 = 28 (type=&quot;standard&quot;: [import hr])</td>
</tr>
<tr>
<td>bs_Cyril</td>
<td>30 = 28 (type=&quot;standard&quot;: [import sr])</td>
</tr>
<tr>
<td>ca</td>
<td>30 = 23 (alt=&quot;proposed&quot; type=&quot;standard&quot;)</td>
</tr>
<tr>
<td>cs</td>
<td>30 = 1.8.1 (type=&quot;standard&quot;)</td>
</tr>
<tr>
<td>cy</td>
<td>30 = 1.8.1</td>
</tr>
<tr>
<td>da</td>
<td>22.1 = 1.8.1 (type=&quot;standard&quot;)</td>
</tr>
<tr>
<td>de__phonebook</td>
<td>30 = 2.0 (type=&quot;phonebook&quot;)</td>
</tr>
<tr>
<td>de_AT_phonebook</td>
<td>30 = 27 (type=&quot;phonebook&quot;)</td>
</tr>
<tr>
<td>dsb</td>
<td>30 = 26</td>
</tr>
<tr>
<td>ee</td>
<td>30 = 21</td>
</tr>
</tbody>
</table>
The Unicode::Collate::Locale module for perl was written by SADAHIRO Tomoyuki, <SADAHIRO@cpan.org>. This module is Copyright(C) 2004-2017, SADAHIRO Tomoyuki. Japan. All rights reserved.

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=head1 SEE ALSO

=item Unicode Collation Algorithm - UTS #10
L<http://www.unicode.org/reports/tr10/>

=item The Default Unicode Collation Element Table (DUCET)
1.2862 cffi 1.14.0

1.2862.1 Available under license:

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1.2863 stax-ex 1.8.1

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* Project home: https://projects.eclipse.org/projects/ee4j.jAXB-impl

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## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaxb-ri
* https://github.com/eclipse-ee4j/jaxb-istack-commons
* https://github.com/eclipse-ee4j/jaxb-dtd-parser
* https://github.com/eclipse-ee4j/jaxb-fi
* https://github.com/eclipse-ee4j/jaxb-stax-ex
* https://github.com/eclipse-ee4j/jax-rpc-ri

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* License: Apache License, 2.0

args4j (2.33)

* License: MIT License

dom4j (1.6.1)
* License: Custom license based on Apache 1.1

file-management (3.0.0)

* License: Apache-2.0
* Project: https://maven.apache.org/shared/file-management/
* Source:
  https://svn.apache.org/viewvc/maven/shared/tags/file-management-3.0.0/

JUnit (4.12)

* License: Eclipse Public License

JUnit (4.12)

* License: Eclipse Public License

maven-compat (3.5.2)

* License: Apache-2.0
* Project: https://maven.apache.org/ref/3.5.2/maven-compat/
* Source:
  https://mvnrepository.com/artifact/org.apache.maven/maven-compat/3.5.2

maven-core (3.5.2)

* License: Apache-2.0
* Project: https://maven.apache.org/ref/3.5.2/maven-core/index.html
* Source: https://mvnrepository.com/artifact/org.apache.maven/maven-core/3.5.2

maven-plugin-annotations (3.5)

* License: Apache-2.0
* Project: https://maven.apache.org/plugin-tools/maven-plugin-annotations/
* Source: https://github.com/apache/maven-plugin-tools/tree/master/maven-plugin-annotations

maven-plugin-api (3.5.2)

* License: Apache-2.0

maven-resolver-api (1.1.1)

* License: Apache-2.0

maven-resolver-api (1.1.1)

* License: Apache-2.0
maven-resolver-connector-basic (1.1.1)
* License: Apache-2.0

maven-resolver-impl (1.1.1)
* License: Apache-2.0

maven-resolver-spi (1.1.1)
* License: Apache-2.0

maven-resolver-transport-file (1.1.1)
* License: Apache-2.0
* Project: https://maven.apache.org/resolver/maven-resolver-transport-file/
* Source:
  https://github.com/apache/maven-resolver/tree/master/maven-resolver-transport-file

maven-resolver-util (1.1.1)
* License: Apache-2.0

maven-settings (3.5.2)
* License: Apache-2.0
* Source:
  https://mvnrepository.com/artifact/org.apache.maven/maven-settings/3.5.2

OSGi Service Platform Core Companion Code (6.0)
* License: Apache License, 2.0

plexus-archiver (3.5)
* License: Apache-2.0
* Project: https://codehaus-plexus.github.io/plexus-archiver/
* Source: https://github.com/codehaus-plexus/plexus-archiver

plexus-io (3.0.0)
* License: Apache-2.0

plexus-utils (3.1.0)
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relaxng-datatype (1.0)

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lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
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lib/kdb/kdb_log.c
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---

**1.2868 lib-pq v1.8.0**

**1.2868.1 Available under license :**

```go
// +build go1.10

package pq

import (  
    "context"  
    "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A runtime panic occurs if c is not a pq connection. This is rarely used // directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.  
func NoticeHandler(c driver.Conn) func(*Error) {  
    return c.(*conn).noticeHandler
 }

// SetNoticeHandler sets the given notice handler on the given connection. A runtime panic occurs if c is not a pq connection. A nil handler may be used // to unset it. This is rarely used directly, use ConnectorNoticeHandler and // ConnectorWithNoticeHandler instead.  
//  
// Note: Notice handlers are executed synchronously by pq meaning commands // won't continue to be processed until the handler returns.
```
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
    c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
// on it.
type NoticeHandlerConnector struct {
    driver.Connector
    noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
    c, err := n.Connector.Connect(ctx)
    if err == nil {
        SetNoticeHandler(c, n.noticeHandler)
    }
    return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        c.noticeHandler = handler
        return c
    }
    return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
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1.18.9

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1.2874 p11-kit 0.20.7 3.el7

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
Available under license:

*uganda.txt* For Vim version 7.4. Last change: 2013 Jul 06

VIM REFERENCE MANUAL by Bram Moolenaar

*uganda* *Uganda* *copying* *copyright* *license*
SUMMARY
*iccf* *ICCF*
Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see |kcc| below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for features. See |sponsor|. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see |manual-copyright|.

=== begin of license ===

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I) There are no restrictions on distributing unmodified copies of Vim except that they must include this license text. You can also distribute unmodified parts of Vim, likewise unrestricted except that they must include this license text. You are also allowed to include executables that you made from the unmodified Vim sources, plus your own usage examples and Vim scripts.

II) It is allowed to distribute a modified (or extended) version of Vim, including executables and/or source code, when the following four conditions are met:
1) This license text must be included unmodified.
2) The modified Vim must be distributed in one of the following five ways:
   a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation
then this license, or a later version, also applies to your changes.
The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.

b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.

c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.

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- You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.
- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

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4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make corrections.

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If the number of changes is small (e.g., a modified Makefile) e-mailing a context diff will do. The e-mail address to be used is <maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim sources, parts of it or from a modified version. You may use this license for previous Vim releases instead of the license that they came with, at your option.

=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a sponsor. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

==============================================================================
Kibaale Children's Centre*Kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them
healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these need children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small
organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.
Germany: It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any
country, mostly from the post office. Use this name (which is
in my passport): "Abraham Moolenaar". Use Euro for the
currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form
that you can use for this. See "Others" below for the swift
code and IBAN number.
Any other method should work. Ask for information about
sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is
the most widely used Internet based payment system. It's
really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is
preferred.

Others: Transfer to one of these accounts if possible:
  Postbank, account 4548774
  Swift code: INGB NL 2A
  IBAN: NL95 INGB 0004 5487 74
  under the name "stichting ICCF Holland", Lisse
  If that doesn't work:
  Rabobank Lisse, account 3765.05.117
  Swift code: RABO NL 2U
  under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address
below. Minimal amount: $70 (my bank does not accept smaller
amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.
vim:tw=78:ts=8:ft=help:norl:
/*
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 */

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Surface Mail:      Arnaud LE HORS, INRIA - Sophia Antipolis,
                     2004, route des Lucioles, 06565 Valbonne Cedex -- FRANCE
Voice phone:       (33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F

1.2881 libxtst 1.2.2 2.1.el7
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1.2882 perl 1.59-416.el8
1.2882.1 Available under license:

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

---

abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\n\nModule-Build mailing list at <module-
\nbuidl@perl.org>.'
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

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The End
#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) { skip_all( "Not all files are available during cross-compilation" ); }
my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{

    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = "
    my $copyright_msg = <$readme>

    my ($year) = $copyright_msg =~ /.*\b(\d{4,})/s
        or die "Year not found in README copyright message "$copyright_msg"";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{

    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /\b\b(\d{4,})/s
        or die "Copyright statement not found in perl -v output "$output"";


1.2883 go-capability v0.0.0-20180916011248-d98352740cb2

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1.2884 gc 7.6.4-3.el8

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1.2885 go-shortid 1.0.0

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core
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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.
org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

------
MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-utility-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

------
Assorted

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1.2898 mergo v0.3.9

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import: ../../../../fossene/db/schema/thing.yml

fields:
  site: string
  author: root

1.2899 lightstep-lightstep-tracer-go v0.15.6

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1.2904 libxcb 1.13 1.el7

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1.2905 krb5-conf 1.0-r2

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```
cmd/krb5/iprop/iprop.x
cmd/krb5/iprop/iprop_hdr.h
cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
```
```
cmd/krb5/slave/kpropd_rpc.c
```
```
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
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lib/libgss/g_canon_name.c
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lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
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lib/libgss/g_imp_sec_context.c
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lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
```
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
"src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

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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

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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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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

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This package contains a modified version of ca-bundle.crt:

c-a-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#
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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
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History
-------

Before (and including) argparse 1.1, the argparse package was licensed under Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

The project repository then had a clean start with some files taken from Python 2.7.1, so definitely all files are under Python License now.

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of the ordinary General Public License).

To apply these terms, attach the following notices to the library.
It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.=20

-- Nathan
=20
------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
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> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> =-mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

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it was a modified artistic license ... i didn't notice the license-
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless the
applications are also GPL-2 which imo is just wrong. it isn't the place of a
library to dictate to application writers what license they should be using.
thus LGPL-2.1 enters to fill this void.

=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
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decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

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University of Missouri - Rolla Phone: (573) 341-6679
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> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
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> > thus LGPL-2.1 enters to fill this void.
> > -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
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> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).
I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin
--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.
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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....

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:
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In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October 2008, Alec Muffett wrote:
>  
>     looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?
>
> make the change now?
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 scanim-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])
  by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
  for <nneul@umr.edu>; Mon, 01 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
  by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
  for <nneul@neulinger.org>; Mon, 01 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
  by rutherford.zen.co.uk with esmtp (Exim 4.50)
  id 11cOcX-0004Qt-6L
  for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

----------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
in released code until Nov 2009 - slow release cycle...)
----------

Discussion thread from mailing list archive, with approval from everyone actively
involved or holding original licensing rights included.
Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
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> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
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> looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
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> 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

> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> 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

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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]) by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142]) by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311 for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
   by rutherford.zen.co.uk with smtp (Exim 4.50)
   id 1IcOcX-0004Qt-6L
   for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k1ldac0afplf2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
Any chance you could write me a self-contained email stating clearly that the license is being changed to GPL, so I could include that email in the repository and clean up the repository/tarballs? I have all the original discussion, but something succinct and self-contained would be ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.2911 json-iterator-go v1.1.10

1.2911.1 Available under license:

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1.2912 lcms 2.12~rc1-2
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Version 3, 29 June 2007

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* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/AnnotationDefaultAttribute.java
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* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/scopedpool/ScopedClassPoolFactory.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/LoaderClassPath.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/ParameterAnnotationsAttribute.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/expr/Instanceof.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/compiler/ast/ASTree.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/tools/reflect/Sample.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/NestHostAttribute.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/convert/TransformAccessArrayField.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/ExceptionsAttribute.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/ClassPool.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/compiler/TypeChecker.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/compiler/ast/ArrayInit.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/compiler/ast/CondExpr.java

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jar/javassist/bytecode/analysis/MultiArrayType.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/CannotCompileException.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/util/proxy/RuntimeSupport.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/AttributInfo.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/FieldInfo.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/tools/rmi/ObjectNotFoundException.java

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/*
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* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/annotation/AnnotationValueVisitor.java
* /opt/ cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/annotation/ClassMemberValue.java
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jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/annotation/EnumMemberValue.java
1.2917 cockroachdb-apd v2.0.2

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* /opt/cola/permits/1116231198_1608145444.23/0/golang-github-gonum-blas-0-0.1.mga7.src.rpm-cosi-expand-archive-WzqxORBa/blas-80dca99229ccca259b550ae3f755cf79c65a224.tar.gz-cosi-expand-archive-fgzReu0e/blas-80dca99229ccca259b550ae3f755cf79c65a224/native/dgemvbench_test.go

* /opt/cola/permits/1116231198_1608145444.23/0/golang-github-gonum-blas-0-0.1.mga7.src.rpm-cosi-expand-archive-WzqxORBa/blas-80dca99229ccca259b550ae3f755cf79c65a224.tar.gz-cosi-expand-archive-fgzReu0e/blas-80dca99229ccca259b550ae3f755cf79c65a224/native/level1single_dsdot.go

* /opt/cola/permits/1116231198_1608145444.23/0/golang-github-gonum-blas-0-0.1.mga7.src.rpm-cosi-expand-archive-WzqxORBa/blas-80dca99229ccca259b550ae3f755cf79c65a224.tar.gz-cosi-expand-archive-fgzReu0e/blas-80dca99229ccca259b550ae3f755cf79c65a224/native/level1single_sdot.go

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Found in path(s):
* /opt/cola/permits/1116231198_1608145444.23/0/golang-github-gonum-blas-0-0.1.mga7.src.rpm-cosi-expand-archive-WzqxORBa/blas-80dca99229ccca259b550ae3f755cf79c65a224.tar.gz-cosi-expand-archive-fgzReu0e/blas-80dca99229ccca259b550ae3f755cf79c65a224/native/dgemvbench_test.go
No license file was found, but licenses were detected in source scan.

From e5a63c34a5c71fca25ae49a326c129fabaab8a3e Mon Sep 17 00:00:00 2001
From: Jan Chaloupka <jchaloup@redhat.com>
Date: Thu, 8 Oct 2015 13:40:35 +0200
Subject: [PATCH] add license

---
LICENSE | 23 +++++++++++++++++++++++
1 file changed, 23 insertions(+)
create mode 100644 LICENSE

diff --git a/LICENSE b/LICENSE
new file mode 100644
index 0000000..76edf5e
--- /dev/null
+++ b/LICENSE
@@ -0,0 +1,23 @@
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+
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+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.
\ No newline at end of file
--
1.9.3

Found in path(s):
* /opt/cola/permits/1116231198_1608145444.23/0/golang-github-gonum-blas-0-0.1.mga7.src.rpm-cosi-expand-
archive-WzqxORBa/add-license.patch
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1116231198_1608145444.23/0/golang-github-gonum-blas-0-0.1.mga7.src.rpm-cosi-expand-archive-WzqxORBa/blas-80da99229cccca259b550ae3f755cf79c65a224.tar.gz-cosi-expand-archive-fgzReu0e/blas-80da99229cccca259b550ae3f755cf79c65a224/cgo/blas.go
No license file was found, but licenses were detected in source scan.

From a4d3ca0439cb62fe7110b0923e7f3e5186f38808 Mon Sep 17 00:00:00 2001
From: Jan Chaloupka <jchaloup@redhat.com>
Date: Thu, 8 Oct 2015 13:43:40 +0200
Subject: [PATCH] internal to inteernal

---
native/dgemm.go | 2 +- 
native/general_single.go | 2 +- 
native/inteernal/math32/math.go | 113 ++++++++++++++++++
native/inteernal/math32/math_test.go | 226 +++++++++++++++++++++++++++++++++
native/inteernal/math32/sqrt.go | 25 +++ 
native/inteernal/math32/sqrt_amd64.go | 20 +++ 
native/inteernal/math32/sqrt_amd64.s | 20 +++
native/inteernal/math32/math.go | 113 -------------
native/inteernal/math32/math_test.go | 226 ----------------------------
native/inteernal/math32/sqrt.go | 25 ---- 
native/inteernal/math32/sqrt_amd64.go | 20 --- 
native/inteernal/math32/sqrt_amd64.s | 20 ---
native/level1double.go | 2 +- 
native/level1double_ddot.go | 2 +- 
native/level1single.go | 4 +- 
native/level1single_dsdot.go | 2 +- 
native/level1single_sdot.go | 2 +- 
native/level1single_sdsdot.go | 2 +- 
native/level2double.go | 2 +- 
native/level2single.go | 2 +- 
native/level3double.go | 2 +- 
native/level3single.go | 2 +- 
native/sgemm.go | 2 +- 
23 files changed, 418 insertions(+), 418 deletions(-)
create mode 100644 native/inteernal/math32/math.go
create mode 100644 native/inteernal/math32/math_test.go
create mode 100644 native/inteernal/math32/sqrt.go
create mode 100644 native/inteernal/math32/sqrt_amd64.go
create mode 100644 native/inteernal/math32/sqrt_amd64.s
delete mode 100644 native/inteernal/math32/math.go
delete mode 100644 native/inteernal/math32/math_test.go
delete mode 100644 native/internal/math32/sqrt.go
delete mode 100644 native/internal/math32/sqrt_amd64.go
delete mode 100644 native/internal/math32/sqrt_amd64.s

diff --git a/native/dgemm.go b/native/dgemm.go
index 850f62c..8dc9920 100644
--- a/native/dgemm.go
+++ b/native/dgemm.go
@@ -10,7 +10,7 @@ import (
    "sync"
    "github.com/gonum/blas"
    "github.com/gonum/internal/asm"
+    "github.com/gonum/intern/al/asm"
 )

// Dgemm computes

diff --git a/native/general_single.go b/native/general_single.go
index bf648e5..8406d77 100644
--- a/native/general_single.go
+++ b/native/general_single.go
@@ -9,7 +9,7 @@ package native
import (}
    "errors"
    "fmt"
-math "github.com/gonum/blas/native/internal/math32"
+math "github.com/gonum/blas/native/intern/al/math32"
 )

func newGeneral32(r, c int) general32 {

diff --git a/native/intern/al/math32/math.go b/native/intern/al/math32/math.go
new file mode 100644
index 0000000..b33401b
--- /dev/null
+++ b/native/intern/al/math32/math.go
@@ -0,0 +1,113 @@
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+
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+
+// Package math32 provides float32 versions of standard library math package
+// routines used by gonum/blas/native.
+package math32
+

```go
import (
    "math"
)

const (
    unan    = 0x7fc00000
    uinf    = 0x7f800000
    uneginf = 0xff800000
    mask    = 0x7f8 >> 3
    shift   = 32 - 8 - 1
    bias    = 127
)

// Abs returns the absolute value of x.
// Special cases are:
//  Abs(Inf) = +Inf
//  Abs(NaN) = NaN
func Abs(x float32) float32 {
    switch {
    case x < 0:
        return -x
    case x == 0:
        return 0 // return correctly abs(-0)
    }
    return x
}

// Copysign returns a value with the magnitude
// of x and the sign of y.
func Copysign(x, y float32) float32 {
    const sign = 1 << 31
    return math.Float32frombits(math.Float32bits(x)&^sign | math.Float32bits(y)&sign)
}

// Hypot returns Sqrt(p*p + q*q), taking care to avoid
// unnecessary overflow and underflow.
// Special cases are:
//  Hypot(Inf, q) = +Inf
//  Hypot(p, Inf) = +Inf
//  Hypot(NaN, q) = NaN
//  Hypot(p, NaN) = NaN
func Hypot(p, q float32) float32 {
    switch {
    case IsInf(p, 0) || IsInf(q, 0):
        return Inf(1)
    }
    return math.Hypot(p, q) // safe version
}
```
case IsNaN(p) || IsNaN(q):
  return NaN()
+
  if p < 0 {
    p = -p
  +}
  if q < 0 {
    q = -q
  +}
  if p < q {
    p, q = q, p
  +}
  if p == 0 {
    return 0
  +}
  q = q / p
  return p * Sqrt(1+q*q)
+
+// Inf returns positive infinity if sign >= 0, negative infinity if sign < 0.
+func Inf(sign int) float32 {
  var v uint32
  if sign >= 0 {
    v = uinf
  +} else {
    v = uneginf
  +}
  return math.Float32frombits(v)
+
+// IsInf reports whether f is an infinity, according to sign.
+// If sign > 0, IsInf reports whether f is positive infinity.
+// If sign < 0, IsInf reports whether f is negative infinity.
+// If sign == 0, IsInf reports whether f is either infinity.
+func IsInf(f float32, sign int) bool {
  // Test for infinity by comparing against maximum float.
  // To avoid the floating-point hardware, could use:
  //
  // x := math.Float32bits(f);
  // return sign >= 0 && x == uinf || sign <= 0 && x == uneginf;
  return sign >= 0 && f > math.MaxFloat32 || sign <= 0 && f < -math.MaxFloat32
+
+// IsNaN reports whether f is an IEEE 754 `not-a-number` value.
+func IsNaN(f float32) (is bool) {
  // IEEE 754 says that only NaNs satisfy f != f.
  // To avoid the floating-point hardware, could use:
  //
  // x := math.Float32bits(f);
  // return uint32(x)>>shift)&mask == mask && x != uinf && x != uneginf
package math32

import (
    "math"
    "testing"
    "testing/quick"
    "github.com/gonum/floats"
)

const tol = 1e-7

func TestAbs(t *testing.T) {
    f := func(x float32) bool {
        y := Abs(x)
        return y == float32(math.Abs(float64(x)))
    }
    if err := quick.Check(f, nil); err != nil {
        t.Error(err)
    }
}

func TestCopySign(t *testing.T) {
    f := func(x struct{ X, Y float32 }) bool {
        y := Copysign(x.X, x.Y)
        return y == float32(math.Copysign(float64(x.X), float64(x.Y)))
    }
    if err := quick.Check(f, nil); err != nil {
        t.Error(err)
    }
}

func TestHypot(t *testing.T) {
    f := func(x float32) float32 {
        return math.Hypot(float32(x), float32(x))
    }
    if err := quick.Check(f, nil); err != nil {
        t.Error(err)
    }
}
+f := func(x struct{ X, Y float32 }) bool {
+y := Hypot(x.X, x.Y)
+if math.Hypot(float64(x.X), float64(x.Y)) > math.MaxFloat32 {
+return true
+}
+return floats.EqualWithinRel(float64(y), math.Hypot(float64(x.X), float64(x.Y)), tol)
+
+if err := quick.Check(f, nil); err != nil {
+t.Error(err)
+
+
+func TestInf(t *testing.T) {
+if float64(Inf(1)) != math.Inf(1) || float64(Inf(-1)) != math.Inf(-1) {
+t.Error("float32(inf) not infinite")
+
+
+func TestIsInf(t *testing.T) {
+posInf := float32(math.Inf(1))
+negInf := float32(math.Inf(-1))
+if !IsInf(posInf, 0) || !IsInf(negInf, 0) || !IsInf(posInf, 1) || !IsInf(negInf, -1) || IsInf(posInf, -1) || IsInf(negInf, 1) {
+t.Error("unexpected isInf value")
+
+f := func(x struct {
+    F float32
+    Sign int
+}) bool {
+y := IsInf(x.F, x.Sign)
+return y == math.IsInf(float64(x.F), x.Sign)
+
+if err := quick.Check(f, nil); err != nil {
+t.Error(err)
+
+
+func TestIsNaN(t *testing.T) {
+f := func(x float32) bool {
+y := IsNaN(x)
+return y == math.IsNaN(float64(x))
+
+if err := quick.Check(f, nil); err != nil {
+t.Error(err)
+
+
+func TestNaN(t *testing.T) {
+if !math.IsNaN(float64(NaN())) {
+t.Errorf("float32(nan) is a number: %f", NaN())
+
+func TestSqrt(t *testing.T) {
+  f := func(x float32) bool {
+    y := Sqrt(x)
+    if IsNaN(y) && IsNaN(sqrt(x)) {
+      return true
+    }
+    return floats.EqualWithinRel(float64(y), float64(sqrt(x)), tol)
+  }
+  if err := quick.Check(f, nil); err != nil {
+    t.Error(err)
+  }
+}
+
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+
+// The original C code and the long comment below are
+// from FreeBSD's /usr/src/lib/msun/src/e_sqrt.c and
+// came with this notice. The go code is a simplified
+// version of the original C.
+
+  // __ieee754_sqrt(x)
+  // Return correctly rounded sqrt.
+  //    -----------------------------
+  //    | Use the hardware sqrt if you have one |
+  //    -----------------------------
+  // Method:
+  //  Bit by bit method using integer arithmetic. (Slow, but portable)
+  //  1. Normalization
+  //  Scale x to y in [1,4) with even powers of 2:
+  //  find an integer k such that  1 <= (y=x*2**(2k)) < 4, then
+  //  sqrt(x) = 2**k * sqrt(y)
+  //  2. Bit by bit computation
+  //  Let q = sqrt(y) truncated to i bit after binary point (q = 1),
To compute $q_{i+1}$ from $q_i$, one checks whether
\[ -(i+1) 2 \leq (q + 2^{i+1}) = y. \] (2)
If (2) is false, then $q_{i+1} = q_i$; otherwise $q_{i+1} = q_i + 2^{-(i+1)}$.

With some algebraic manipulation, it is not difficult to see that (2) is equivalent to
\[ s_{i+1} + 2^i \leq y \] (3)
The advantage of (3) is that $s_i$ and $y_i$ can be computed by
\[ s_i = s_i, \quad y_i = y_i; \quad \text{if (3) is false} \]
\[ s_{i+1} = s_i + 2^i, \quad y_{i+1} = y_i - s_i - 2^i \quad \text{otherwise,} \]
One may easily use induction to prove (4) and (5).

Note. Since the left hand side of (3) contain only $i+2$ bits, it does not necessary to do a full (53-bit) comparison in (3).

3. Final rounding
After generating the 53 bits result, we compute one more bit.
Together with the remainder, we can decide whether the result is exact, bigger than 1/2ulp, or less than 1/2ulp (it will never equal to 1/2ulp).
The rounding mode can be detected by checking whether huge + tiny is equal to huge, and whether huge - tiny is equal to huge for some floating point number "huge" and "tiny".

```go
func sqrt(x float32) float32 {

```
// special cases
+switch {
  +case x == 0 || IsNaN(x) || IsInf(x, 1):
    +return x
  +case x < 0:
    +return NaN()
  +}
+ix := math.Float32bits(x)
+// normalize x
+exp := int((ix >> shift) & mask)
+if exp == 0 { // subnormal x
  +for ix&1<<shift == 0 {
    +ix <<= 1
    +exp--
  +}
  +exp++
  +}
+exp -= bias // unbias exponent
+ix &^= mask << shift
+ix |= 1 << shift
+if exp&1 == 1 { // odd exp, double x to make it even
  +ix <<= 1
  +}
+exp >>= 1 // exp = exp/2, exponent of square root
+// generate sqrt(x) bit by bit
+ix <<= 1
+var q, s uint32               // q = sqrt(x)
+r := uint32(1 << (shift + 1)) // r = moving bit from MSB to LSB
+for r != 0 {
  +t := s + r
  +if t <= ix {
    +s = t + r
    +ix -= t
    +q += r
  +}
  +ix <<= 1
  +r >>= 1
  +}
+// final rounding
+if ix != 0 { // remainder, result not exact
  +q += q & 1 // round according to extra bit
  +}
+ix = q>>1 + uint32(exp-1+bias)<<shift // significand + biased exponent
+return math.Float32frombits(ix)
+}
--- /dev/null
+++ b/native/inteernal/math32/sqrt.go
@@ -0,0 +1,25 @@
+// Copyright 2015 The gonum Authors. All rights reserved.
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+// license that can be found in the LICENSE file.
+
+//+build !amd64 noasm
+
+package math32
+
+import (
+  "math"
+
+
+// Sqrt returns the square root of x.
+//
+// Special cases are:
+//
+// Sqrt(+Inf) = +Inf
+// Sqrt(0) = 0
+// Sqrt(x < 0) = NaN
+// Sqrt(NaN) = NaN
+
+func Sqrt(x float32) float32 {
+  // FIXME(kortschak): Direct translation of the math package
+  // asm code for 386 fails to build. No test hardware is available
+  // for arm, so using conversion instead.
+  return float32(math.Sqrt(float64(x)))
+}

diff --git a/native/inteernal/math32/sqrt_amd64.go b/native/inteernal/math32/sqrt_amd64.go
new file mode 100644
index 0000000..ca11639
--- /dev/null
+++ b/native/inteernal/math32/sqrt_amd64.go
@@ -0,0 +1,20 @@
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+
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+// Use of this source code is governed by a BSD-style
+// license that can be found in the LICENSE file.
+
+//+build !noasm
+
+package math32
+
+// Sqrt returns the square root of x.
+//
// Special cases are:
// Sqrt(+Inf) = +Inf
// Sqrt(0) = 0
// Sqrt(x < 0) = NaN
// Sqrt(NaN) = NaN

func Sqrt(x float32) float32

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+
//+build !noasm
+
// TODO(kortschak): use textflag.h after we drop Go 1.3 support
//+#include "textflag.h"
// Don't insert stack check preamble.
+#define NOSPLIT4
+
// func Sqrt(x float32) float32
+TEXT Sqrt(SB),NOSPLIT,$0
+SQRTPS x+0(FP), X0
+MOVSS X0, ret+8(FP)
+RET

diff --git a/native/inteernal/math32/math.go b/native/inteernal/math32/math.go
deleted file mode 100644
index b33401b..0000000
--- a/native/inteernal/math32/math.go
+++ /dev/null
@@ -1,113 +0,0 @@
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-
-// Copyright 2015 The gonum Authors. All rights reserved.
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-// license that can be found in the LICENSE file.
-
-// Package math32 provides float32 versions of standard library math package
-// routines used by gonum/blas/native.
package math32
-
import (  "math"
  )
-
const (  
  unan = 0x7fc00000
  uinf = 0x7f800000
  uneginf = 0xff800000
  -mask = 0x7f8 >> 3
  -shift = 32 - 8 - 1
  -bias = 127
  )
-
// Abs returns the absolute value of x.
//
// Special cases are:
//  Abs(Inf) = +Inf
//  Abs(NaN) = NaN
func Abs(x float32) float32 {  
  switch {  
  case x < 0:  
    return -x
  case x == 0:  
    return 0 // return correctly abs(-0)
  }  
  return x
  }
-
// Copysign returns a value with the magnitude
// of x and the sign of y.
func Copysign(x, y float32) float32 {  
  const sign = 1 << 31
  return math.Float32frombits(math.Float32bits(x)&^sign | math.Float32bits(y)&sign)
  }
-
// Hypot returns Sqrt(p*p + q*q), taking care to avoid
// unnecessary overflow and underflow.
//
// Special cases are:
//  Hypot(Inf, q) = +Inf
//  Hypot(Inf, q) = +Inf
//  Hypot(NaN, q) = NaN
//  Hypot(p, NaN) = NaN
func Hypot(p, q float32) float32 {  
  // special cases
  switch {  
  }
-case IsInf(p, 0) || IsInf(q, 0):
  -return Inf(1)
-else IsNaN(p) || IsNaN(q):
  -return NaN()
-}
-}
-}
-}
-}
-}
-}
-}
-}
-}
-}
-}
-}

-// Inf returns positive infinity if sign >= 0, negative infinity if sign < 0.
-func Inf(sign int) float32 {
  -var v uint32
  -if sign >= 0 {
    -v = uinf
  -} else {
    -v = uneginf
  -}
  -return math.Float32frombits(v)
-}

-// IsInf reports whether f is an infinity, according to sign.
-// If sign > 0, IsInf reports whether f is positive infinity.
-// If sign < 0, IsInf reports whether f is negative infinity.
-// If sign == 0, IsInf reports whether f is either infinity.
-func IsInf(f float32, sign int) bool {
-// Test for infinity by comparing against maximum float.
-// To avoid the floating-point hardware, could use:
-// x := math.Float32bits(f);
-// return sign >= 0 && x == uinf || sign <= 0 && x == uneginf;
-// return sign >= 0 && f > math.MaxFloat32 || sign <= 0 && f < -math.MaxFloat32
-// }
-}

-// IsNaN reports whether f is an IEEE 754 `not-a-number` value.
-func IsNaN(f float32) (is bool) {
-// IEEE 754 says that only NaNs satisfy f != f.
-// To avoid the floating-point hardware, could use:
// x := math.Float32bits(f);
// return uint32(x>>shift)&mask == mask && x != uinf && x != uneginf
-return f != f
-}
-
-// NaN returns an IEEE 754 "not-a-number" value.
-func NaN() float32 { return math.Float32frombits(unan) }

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-// license that can be found in the LICENSE file.
-
-package math32
-
-import (  
-"math"
-"testing"
-"testing/quick"
-
-"github.com/gonum/floats"
-)
-
-const tol = 1e-7
-
-func TestAbs(t *testing.T) {  
-f := func(x float32) bool {  
-y := Abs(x)  
-return y == float32(math.Abs(float64(x)))  
-}  
-if err := quick.Check(f, nil); err != nil {  
t.Error(err)  
-}  
-
-func TestCopySign(t *testing.T) {  
-f := func(x struct{ X, Y float32 }) bool {  
-y := Copysign(x.X, x.Y)  
-return y == float32(math.Copysign(float64(x.X), float64(x.Y)))  
-}  
-if err := quick.Check(f, nil); err != nil {  
t.Error(err)  
-}  
-}
- func TestHypot(t *testing.T) {
- f := func(x struct{ X, Y float32 }) bool {
- y := Hypot(x.X, x.Y)
- if math.Hypot(float64(x.X), float64(x.Y)) > math.MaxFloat32 {
- return true
- }
- return floats.EqualWithinRel(float64(y), math.Hypot(float64(x.X), float64(x.Y)), tol)
- }
- if err := quick.Check(f, nil); err != nil {
- t.Error(err)
- }
- }
-
- func TestInf(t *testing.T) {
- if float64(Inf(1)) != math.Inf(1) || float64(Inf(-1)) != math.Inf(-1) {
- t.Error("float32(inf) not infinite")
- }
- }
- }
-
- func TestIsInf(t *testing.T) {
- posInf := float32(math.Inf(1))
- negInf := float32(math.Inf(-1))
- if !IsInf(posInf, 0) || !IsInf(negInf, 0) || !IsInf(posInf, 1) || !IsInf(negInf, -1) || IsInf(posInf, -1) || IsInf(negInf, 1) {
- t.Error("unexpected isInf value")
- }
- f := func(x struct {
- F float32
- Sign int
- }) bool {
- y := IsInf(x.F, x.Sign)
- return y == math.IsInf(float64(x.F), x.Sign)
- }
- if err := quick.Check(f, nil); err != nil {
- t.Error(err)
- }
- }
-
- func TestisNaN(t *testing.T) {
- f := func(x float32) bool {
- y := IsNaN(x)
- return y == math.IsNaN(float64(x))
- }
- if err := quick.Check(f, nil); err != nil {
- t.Error(err)
- }
- }
-
func TestNaN(t *testing.T) {
  if !math.IsNaN(float64(NaN())) {
    t.Errorf("float32(nan) is a number: %f", NaN())
  }
}

func TestSqrt(t *testing.T) {
  f := func(x float32) bool {
    y := Sqrt(x)
    if IsNaN(y) && IsNaN(sqrt(x)) {
      return true
    }
    return floats.EqualWithinRel(float64(y), float64(sqrt(x)), tol)
  }
  if err := quick.Check(f, nil); err != nil {
    t.Error(err)
  }
}

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// The original C code and the long comment below are
// from FreeBSD's /usr/src/lib/msun/src/e_sqrt.c and
// came with this notice. The go code is a simplified
// version of the original C.
//
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// ====================================================

// ieee754_sqrt(x)
// Return correctly rounded sqrt.
//   [ Use the hardware sqrt if you have one ]
// Method:
//   Bit by bit method using integer arithmetic. (Slow, but portable)
// 1. Normalization
// Scale x to y in [1,4) with even powers of 2:
// find an integer k such that 1 <= (y=x*2**(2k)) < 4, then
// sqrt(x) = 2**k * sqrt(y)
2. Bit by bit computation

Let \( q = \sqrt{y} \) truncated to \( i \) bit after binary point (\( q = 1 \)).

\[
\begin{align*}
\text{i} & \quad \text{i+1} & \quad 2 \\
\text{s} & = 2^i q, \text{ and } y = 2^i ( y - q ).
\end{align*}
\]  
(1)

To compute \( q^{i+1} \) from \( q^i \), one checks whether

\[
(q + 2^{-i}) \leq y. \quad (2)
\]

If (2) is false, then \( q^{i+1} = q^i \); otherwise \( q^{i+1} = q^i + 2^{-i} \).

With some algebraic manipulation, it is not difficult to see

that (2) is equivalent to

\[
(s + 2^{-i}) \leq y \quad (3)
\]

The advantage of (3) is that \( s \) and \( y \) can be computed by

\[
\text{i} \quad \text{i}
\]

the following recurrence formula:

if (3) is false

\[
\begin{align*}
\text{s} & = s, \quad y = y ; \\
\text{i+1} & \quad \text{i+1} \quad \text{i}
\end{align*}
\]  
(4)

otherwise,

\[
\begin{align*}
\text{s} & = s + 2^{-i}, \quad y = y - s - 2 \\
\text{i+1} & \quad \text{i+1} \quad \text{i} \quad \text{i}
\end{align*}
\]  
(5)

One may easily use induction to prove (4) and (5).

Note. Since the left hand side of (3) contain only \( i+2 \) bits,

it does not necessary to do a full (53-bit) comparison

in (3).

3. Final rounding

After generating the 53 bits result, we compute one more bit.

Together with the remainder, we can decide whether the

result is exact, bigger than 1/2ulp, or less than 1/2ulp

(it will never equal to 1/2ulp).

The rounding mode can be detected by checking whether

\( \text{huge} + \text{tiny} \) is equal to huge, and whether huge - tiny is

equal to huge for some floating point number "huge" and "tiny".
//
// sqrt(x float32) float32 {
// special cases
// switch {
// case x == 0 || IsNaN(x) || IsInf(x, 1):
// return x
// case x < 0:
// return NaN()
// }
// ix := math.Float32bits(x)
// // normalize x
// exp := int((ix >> shift) & mask)
// if exp == 0 { // subnormal x
// for ix&1<shift == 0 {
// ix <<= 1
// exp--
// }
// exp++
// }
// exp -= bias // unbias exponent
// ix &^= mask << shift
// if exp == 1 << shift
// if exp&1 == 1 { // odd exp, double x to make it even
// ix <<= 1
// }
// exp >>= 1 // exp = exp/2, exponent of square root
// // generate sqrt(x) bit by bit
// ix <<= 1
// var q, s uint32 // q = sqrt(x)
// r := uint32(1 << (shift + 1)) // r = moving bit from MSB to LSB
// for r != 0 {
// t := s + r
// if t <= ix {
// s = t + r
// ix -= t
// q += r
// }
// ix <<= 1
// r >>= 1
// }
// // final rounding
// if ix != 0 { // remainder, result not exact
// q += q & 1 // round according to extra bit
// }
// ix = q>>1 + uint32(exp-1+bias)<<shift // significand + biased exponent
// return math.Float32frombits(ix)
// }
// diff --git a/native/internal/math32/sqrt.go b/native/internal/math32/sqrt.go
--- a/native/internal/math32/sqrt.go
+++ /dev/null
@@ -1,25 +0,0 @@
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-
-//+build !amd64 noasm
-
-pkg math32
-
-+import (  
-+ "math"
-
-<-// Sqrt returns the square root of x.
-<-// Special cases are:
-<-// Sqrt(+Inf) = +Inf
-<-// Sqrt(0) = 0
-<-// Sqrt(x < 0) = NaN
-<-// Sqrt(NaN) = NaN
-<func Sqrt(x float32) float32 {
-<// FIXME(kortschak): Direct translation of the math package
-<// asm code for 386 fails to build. No test hardware is available
-<// for arm, so using conversion instead.
-<return float32(math.Sqrt(float64(x)))
-}

diff --git a/native/internal/math32/sqrt_amd64.go b/native/internal/math32/sqrt_amd64.go
deleted file mode 100644
diff --git a/native/internal/math32/sqrt_amd64.go b/native/internal/math32/sqrt_amd64.go
index ca11639..0000000
--- a/native/internal/math32/sqrt_amd64.go
+++ /dev/null
@@ -1,20 +0,0 @@
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-
-//+build !noasm
-
-pkg math32
-
// Sqrt returns the square root of x.

// Special cases are:
// Sqrt(+Inf) = +Inf
// Sqrt(0) = 0
// Sqrt(x < 0) = NaN
// Sqrt(NaN) = NaN

func Sqrt(x float32) float32

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-
//+build !noasm
-
// TODO(kortschak): use textflag.h after we drop Go 1.3 support
// #include "textflag.h"
// Don't insert stack check preamble.
// #define NOSPLIT4
-
// func Sqrt(x float32) float32
// TEXT Sqrt(SB),NOSPLIT,S0
// SQRRTSS x+0(FP), X0
// MOVSS X0, ret+8(FP)
// RET
diff --git a/native/level1double.go b/native/level1double.go
index 0d77243..65f2972 100644
--- a/native/level1double.go
+++ b/native/level1double.go
@@ -8,7 +8,7 @@ import (
import (  
  "github.com/gonum/blas/native/math32"
  "github.com/gonum/blas/native/asm"
)

var _ blas.Float32Level1 = Implementation{}

import (  
  "github.com/gonum/blas/native/asm"
)

var _ blas.Float64Level1 = Implementation{}

import (  
  "github.com/gonum/blas/native/asm"
)

import (  
  "github.com/gonum/inteernal/asm"
)

// Ddot computes the dot product of the two vectors

// Dsdot computes the dot product of the two vectors

// Sdot computes the dot product of the two vectors

package native
import (  
"github.com/gonum/internal/asm"
+
"github.com/gonum/inteernal/asm"
)

// Sdot computes the dot product of the two vectors
diff --git a/native/level1single_sdsdot.go b/native/level1single_sdsdot.go
index d58be3d..79543d4 100644
--- a/native/level1single_sdsdot.go
+++ b/native/level1single_sdsdot.go
@@ -7,7 +7,7 @@
package native

import (  
"github.com/gonum/inteernal/asm"
+
"github.com/gonum/inteernal/asm"
)

// Sdsdot computes the dot product of the two vectors plus a constant
diff --git a/native/level2double.go b/native/level2double.go
index 6d59559..af62cd1 100644
--- a/native/level2double.go
+++ b/native/level2double.go
@@ -6,7 +6,7 @@
var _ blas.Float64Level2 = Implementation{}  
import (  
"github.com/gonum/gonum/inteernal/asm"
+
"github.com/gonum/inteernal/asm"
)

// Sdsdot computes the dot product of the two vectors plus a constant
diff --git a/native/level2single.go b/native/level2single.go
index b213ad6..6720c0e 100644
--- a/native/level2single.go
+++ b/native/level2single.go
@@ -8,7 +8,7 @@
import (  
"github.com/gonum/gonum/inteernal/asm"
+
"github.com/gonum/inteernal/asm"
)

// Sdsdot computes the dot product of the two vectors plus a constant
diff --git a/native/level3double.go b/native/level3double.go
index 5a19652..47d5d15 100644
--- a/native/level3double.go
+++ b/native/level3double.go
@@ -8,7 +8,7 @@
import (  
"github.com/gonum/gonum/inteernal/asm"
+
"github.com/gonum/inteernal/asm"
)
--- a/native/level3double.go
+++ b/native/level3double.go
@@ -6,7 +6,7 @@ package native

import (  
    "github.com/gonum/blas"  
-   "github.com/gonum/internal/asm"
+   "github.com/gonum/internal/asm"
 )

var _ blas.Float64Level3 = Implementation{}

diff --git a/native/level3single.go b/native/level3single.go
index 6bc9a56..82212a0 100644
--- a/native/level3single.go
+++ b/native/level3single.go
@@ -8,7 +8,7 @@ package native

import (  
    "github.com/gonum/blas"  
-   "github.com/gonum/internal/asm"
+   "github.com/gonum/internal/asm"
 )

var _ blas.Float32Level3 = Implementation{}

diff --git a/native/sgemm.go b/native/sgemm.go
index 047d4e5..0387945 100644
--- a/native/sgemm.go
+++ b/native/sgemm.go
@@ -12,7 +12,7 @@ import (  
    "sync"

    "github.com/gonum/blas"  
-   "github.com/gonum/internal/asm"
+   "github.com/gonum/internal/asm"
 )

// Sgemm computes
--
1.9.3

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1.2934 jakarta-inject 2.6.1

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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   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.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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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.

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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1.2962 which 2.21 12.el8

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TERMS AND CONDITIONS

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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.

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implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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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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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
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d) Convey the object code by offering access from a designated
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```

Local Variables:
ispell-local-pdict: "ispell-dict"
End:

1.2965 wget 1.14 10.el7_0.1
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1.2966 jackson-dataformat-smile 2.8.11

1.2967 go-cache v2.1.0+incompatible

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1.2968 e2fsprogs 1.42.9-19.el7
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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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#
# This is a Makefile stub which handles the creation of BSD shared libraries.
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)
$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f $(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \ `echo $(my_dir) | sed -e 's;lib/;;'" $(BSD_LIB) $(BSD_LIB))

install-shlibs install: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \ $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)/$(BSD_LIB) 
@-$(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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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
 Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 /*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

Open Source Used In APIC-SE-BATMAN 2.1.1d 38567
- trivial database library - private includes

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Theodore Ts'o
23-June-2007

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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iniparse/compat.py and tests/test_compat.py contain code derived from
lib/python-2.3/ConfigParser.py and lib/python-2.3/test/test_cfgparse.py
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A. HISTORY OF THE SOFTWARE
================================

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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   src/preproc/grn/gprint.h
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. 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
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   src/devices/xditview/FontMap
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. The -mdoc macro set, using the BSD license.

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1.2982 perl-podlators 4.11 1.el8

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1.2983 zlib 1.2.11.dfgs-2ubuntu1.2

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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Jean-loup Gailly            Mark Adler
jloup@gzip.org              madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

1.2984 errcheck v0.0.0-20181223084120-ef45e06d44b6
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1.2986 dracut 033 564.el7

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1.2987 python-setuptools 39.2.0 5.el8

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1.2988 go-toml v1.6.0

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1.2989 sean-seed v0.0.0-20170313163322-e2103e2c3529

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1.2990 javax-websocket-server-impl

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message
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* org.eclipse.jetty.orbit:javax.mail.glassfish

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The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl
MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.2991 findutils 4.6.0+git+20190209 2
1.2991.1 Available under license :
It was downloaded from ftp://ftp.gnu.org/gnu/findutils

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.

Upstream Authors:
* GNU find was written by Eric Decker <cire@cisco.com>, with enhancements by David MacKenzie <djm@gnu.org>, Jay Plett <jay@silence.princeton.nj.us>, and Tim Wood <axolotl!tim@toad.com>. The idea for -print0 and xargs -0 came from Dan Bernstein <brnstnd@kramden.acf.nyu.edu>. Improvements have been made by James Youngman <jay@gnu.org>.

* GNU xargs was originally written by Mike Rendell, with enhancements by David MacKenzie. Modifications by James Youngman Dmitry V. Levin

* GNU locate and its associated utilities were originally written by James Woods, with enhancements by David MacKenzie, James Youngman and Bas van Gompel.

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1.2992 musl 1.1.24-r9

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1.2993 mitchellh-mapstructure v1.4.1

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1.2995 jackson-datatype-jdk8 2.10.5

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Manifest-Version: 1.0
Bnd-LastModified: 1595301005506
Build-Jdk: 1.8.0_162
Built-By: tatu
Bundle-Description: Add-on module for Jackson (http://jackson.codehaus.org) to support JDK 8 data types.
Bundle-DocURL: https://github.com/FasterXML/jackson-modules-java8/jackson-datatype-jdk8
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Jackson datatype: jdk8
Bundle-SymbolicName: com.fasterxml.jackson.datatype.jackson-datatype-jdk8
Bundle-Vendor: FasterXML
Bundle-Version: 2.10.5
Created-By: Apache Maven Bundle Plugin
Implementation-Build-Date: 2020-07-21 03:09:44+0000
Implementation-Title: Jackson datatype: jdk8
Implementation-Vendor: FasterXML
Implementation-Vendor-Id: com.fasterxml.jackson.datatype
Implementation-Version: 2.10.5
Import-Package: com.fasterxml.jackson.core;version="[2.10,3)";com.fasterxml.jackson.core.io;version="[2.10,3)",com.fasterxml.jackson.core.util;version="[2.10,3)";com.fasterxml.jackson.databind;version="[2.10,3)";com.fasterxml.jackson.databind.deser;version="[2.10,3)";com.fasterxml.jackson.databind.deser.std;version="[2.10,3)";com.fasterxml.jackson.databind.jsontype;version="[2.10,3)";com.fasterxml.jackson.databind.type;version="[2.10,3)";com.fasterxml.jackson.databind.util;version="[2.10,3)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Specification-Title: Jackson datatype: jdk8
Specification-Vendor: FasterXML
Specification-Version: 2.10.5
Tool: Bnd-4.2.0.201903051501
X-Compile-Source-JDK: 1.8
X-Compile-Target-JDK: 1.8

Found in path(s):
* /opt/cola/permits/1154615874_1618867970.74/0/jackson-datatype-jdk8-2-10-5-5-jar/META-INF/MANIFEST.MF

1.2996 centos-release 7-7.1908.0.el7.centos

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## Special Recognition ##

One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire buildsystem we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks : but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

Contributors:
The Red Hat developers, without whom CentOS would look very different

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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
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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
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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
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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 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.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.3006 tre 0.8.0

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1.3007 glob-intersection v0.0.0-20180916065949-5c77d914dd0b

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1.3008 slf4j 1.7.28

1.3009 p11-kit 0.23.5 3.el7

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# Test multiple notices all display at once.
query T noticetrace
SELECT crdb_internal.notice('hi'), crdb_internal.notice('i am....'), crdb_internal.notice('otan!!!')
----
NOTICE: hi
NOTICE: i am....
NOTICE: otan!!!

subtest test_notice_severity
query T noticetrace
SELECT crdb_internal.notice('debug1', 'do not see this'), crdb_internal.notice('warning', 'but you see this'),
crdb_internal.notice('debug2', 'and never this')
----
WARNING: but you see this

statement ok
SET client_min_messages = 'debug1'

query T noticetrace
SELECT crdb_internal.notice('debug1', 'now you see this'), crdb_internal.notice('warning', 'and you see this'),
crdb_internal.notice('debug2', 'and never this')
----
DEBUG1: now you see this
WARNING: and you see this

statement ok
CREATE DATABASE d;
CREATE TABLE d.t (x int)

query T noticetrace
ALTER TABLE d.t RENAME TO d.t2
----
NOTICE: renaming tables with a qualification is deprecated
HINT: use ALTER TABLE d.t RENAME TO t2 instead

# Start off with an empty enum, and add values to it.
statement ok
CREATE TYPE color AS ENUM ()

statement ok
ALTER TYPE color ADD VALUE 'black'

query T noticetrace
ALTER TYPE color ADD VALUE IF NOT EXISTS 'black'
----
NOTICE: enum value "black" already exists, skipping

statement ok
CREATE MATERIALIZED VIEW v AS SELECT 1

query T noticetrace
REFRESH MATERIALIZED VIEW CONCURRENTLY v
----
NOTICE: CONCURRENTLY is not required as views are refreshed concurrently

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import {
    "context"
    "time"
    "github.com/cockroachdb/cockroach/pkg/settings/cluster"
    "github.com/cockroachdb/cockroach/pkg/util/uuid"
    "github.com/cockroachdb/errors"
}

var errEnterpriseNotEnabled = errors.New("OSS binaries do not include enterprise features")

// CheckEnterpriseEnabled returns a non-nil error if the requested enterprise
// feature is not enabled, including information or a link explaining how to
// enable it.
// This function is overridden by an init hook in CCL builds.
var CheckEnterpriseEnabled = func(_ *cluster.Settings, _ uuid.UUID, org, feature string) error {
    return errEnterpriseNotEnabled // nb: this is squarely in the hot path on OSS builds
}

// TimeToEnterpriseLicenseExpiry returns a duration object that measures the time until
// the currently set enterprise license expires starting from the 3rd argument
// passed in.
// This function is overridden by an init hook in CCL builds
var TimeToEnterpriseLicenseExpiry = func(
    ctx context.Context, _ *cluster.Settings, _ time.Time,
) (time.Duration, error) {
    return 0, nil
}

// LicenseType returns what type of license the cluster is running with, or
// "OSS" if it is an OSS build.
// This function is overridden by an init hook in CCL builds.
var LicenseType = func(st *cluster.Settings) (string, error) {

return "OSS", nil
}

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// licenses/APL.txt.

package builtins

import (
    "strings"
    "github.com/cockroachdb/cockroach/pkg/sql/pgwire/pgnotice"
    "github.com/cockroachdb/cockroach/pkg/sql/sem/tree"
    "github.com/cockroachdb/errors"
// crdbInternalSendNotice sends a notice.
// Note this is extracted to a different file to prevent churn on the pgwire
// test, which records line numbers.
func crdbInternalSendNotice(
    ctx *tree.EvalContext, severity string, msg string,
) (tree.Datum, error) {
    if ctx.ClientNoticeSender == nil {
        return nil, errors.AssertionFailedf("notice sender not set")
    }
    ctx.ClientNoticeSender.BufferClientNotice(
        ctx.Context,
        pgnotice.NewWithSeverityf(strings.ToUpper(severity), "%s", msg),
    )
    return tree.NewDInt(0), nil
}

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# External Contributors - Hall of Fame

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Open Source Used In APIC-SE-BATMAN 2.1.1d 38843

## All-Time External Contributors

330 contributors, 1609 commits


### By Year

#### 2020

96 contributors, 333 commits

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### 2019

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### 2018

54 contributors, 120 commits


### 2017

73 contributors, 250 commits

### 2016

42 contributors, 320 commits


### 2015

43 contributors, 308 commits

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### 2014

17 contributors, 134 commits


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# Test notices work as expected by creating a VIEW on a TEMP TABLE.

# Prepare the environment.

send
Query { "String": "DROP TABLE IF EXISTS t CASCADE"}
until ignore=NoticeResponse
ReadyForQuery
----
{"Type":"CommandComplete","CommandTag":"DROP TABLE"}
{"Type":"ReadyForQuery","TxStatus":"I"}

# Start of test.

send
Query {"String": "CREATE TABLE t(x INT, y INT)"}
----

until
ReadyForQuery
----
{"Type":"CommandComplete","CommandTag":"CREATE TABLE"}
{"Type":"ReadyForQuery","TxStatus":"I"}

send
Query {"String": "CREATE INDEX t_x_idx ON t(x)"}
----

until
ReadyForQuery
----
{"Type":"CommandComplete","CommandTag":"CREATE INDEX"}
{"Type":"ReadyForQuery","TxStatus":"I"}

send
Query {"String": "CREATE INDEX t_y_idx ON t(y)"}
----

until
ReadyForQuery
----
{"Type":"CommandComplete","CommandTag":"CREATE INDEX"}
{"Type":"ReadyForQuery","TxStatus":"I"}

# Check that crdb reports a notice upon drop index.

send
Query {"String": "DROP INDEX t_x_idx"}
----

until crdb_only
CommandComplete
----
The data for dropped indexes is reclaimed asynchronously.

The reclamation delay can be customized in the zone configuration for the table.

```
CommandComplete
```

```
until noncrdb_only
CommandComplete
```

```
until
ReadyForQuery
```

```
# Disable notices and assert now it is not sent.
send crdb_only
Query {"String": "SET CLUSTER SETTING sql.notices.enabled = false"}
```

```
until crdb_only
ReadyForQuery
```

```
# Check that the notice is not printed any more.

send
Query {"String": "DROP INDEX t_y_idx"}
```

```
until
ReadyForQuery
```

```
// Copyright 2017 The Cockroach Authors.
//
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//
// https://github.com/cockroachdb/cockroach/blob/master/licenses/CCL.txt
```
package utilccl

import (
    "bytes"
    "context"
    "strings"
    "sync/atomic"
    "time"

    "github.com/cockroachdb/cockroach/pkg/base"
    "github.com/cockroachdb/cockroach/pkg/ccl/utilccl/licenseccl"
    "github.com/cockroachdb/cockroach/pkg/server"
    "github.com/cockroachdb/ccl/utilccl"
    "github.com/cockroachdb/cockroach/pkg/settings"
    "github.com/cockroachdb/cockroach/pkg/sql/pgwire/pgcode"
    "github.com/cockroachdb/cockroach/pkg/sql/pgwire/pgerror"
    "github.com/cockroachdb/cockroach/pkg/util/envutil"
    "github.com/cockroachdb/cockroach/pkg/util/timeutil"
    "github.com/cockroachdb/cockroach/pkg/util/uuid"
    "github.com/cockroachdb/errors"
    "github.com/cockroachdb/redact"
)

var enterpriseLicense = func() *settings.StringSetting {
    s := settings.RegisterValidatedStringSetting(
        "enterprise.license",
        "the encoded cluster license",
        "",
        func(sv *settings.Values, s string) error {
            _, err := decode(s)
            return err
        },
        // Even though string settings are non-reportable by default, we
        // still mark them explicitly in case a future code change flips the
        // default.
        s.SetReportable(false)
        s.SetVisibility(settings.Public)
        return s
    )
    deferToLicense = deferToLicense
    // enterpriseStatus determines whether the cluster is enabled
    // for enterprise features or if enterprise status depends on the license.
    var enterpriseStatus int32 = deferToLicense
    const ( deferToLicense = 0 enterpriseEnabled = 1
}()}
// errEnterpriseRequired is returned by check() when the caller does
// not request detailed errors.
var errEnterpriseRequired = pgerror.New(pgcode.CCLValidLicenseRequired,
  "a valid enterprise license is required")

// licenseCacheKey is used to cache licenses in cluster.Settings.Cache,
// keeping the entries private.
type licenseCacheKey string

// TestingEnableEnterprise allows overriding the license check in tests.
func TestingEnableEnterprise() func() {
  before := atomic.LoadInt32(&enterpriseStatus)
  atomic.StoreInt32(&enterpriseStatus, enterpriseEnabled)
  return func() {
    atomic.StoreInt32(&enterpriseStatus, before)
  }
}

// TestingDisableEnterprise allows re-enabling the license check in tests.
func TestingDisableEnterprise() func() {
  before := atomic.LoadInt32(&enterpriseStatus)
  atomic.StoreInt32(&enterpriseStatus, deferToLicense)
  return func() {
    atomic.StoreInt32(&enterpriseStatus, before)
  }
}

// ApplyTenantLicense verifies the COCKROACH_TENANT_LICENSE environment variable
// and enables enterprise features for the process. This is a bit of a hack and
// should be replaced once it is possible to read the host cluster's
// enterprise.license setting.
func ApplyTenantLicense() error {
  license, ok := envutil.EnvString("COCKROACH_TENANT_LICENSE", 0)
  if !ok {
    return nil
  }
  if _, err := decode(license); err != nil {
    return errors.Wrap(err, "COCKROACH_TENANT_LICENSE encoding is invalid")
  }
  atomic.StoreInt32(&enterpriseStatus, enterpriseEnabled)
  return nil
}

// CheckEnterpriseEnabled returns a non-nil error if the requested enterprise
// feature is not enabled, including information or a link explaining how to
// enable it.
//
// This should not be used in hot paths, since an unavailable feature will
// result in a new error being instantiated for every call -- use
// IsEnterpriseEnabled() instead.
func CheckEnterpriseEnabled(st *cluster.Settings, cluster uuid.UUID, org, feature string) error {
    return checkEnterpriseEnabledAt(st, timeutil.Now(), cluster, org, feature, true /* withDetails */)
}

// IsEnterpriseEnabled returns whether the requested enterprise feature is
// enabled. It is faster than CheckEnterpriseEnabled, since it does not return
// details about why the feature is unavailable, and can therefore be used in
// hot paths.
func IsEnterpriseEnabled(st *cluster.Settings, cluster uuid.UUID, org, feature string) bool {
    return checkEnterpriseEnabledAt(
        st, timeutil.Now(), cluster, org, feature, false /* withDetails */) == nil
}

func init() {
    base.CheckEnterpriseEnabled = CheckEnterpriseEnabled
    base.LicenseType = getLicenseType
    base.TimeToEnterpriseLicenseExpiry = TimeToEnterpriseLicenseExpiry
    server.ApplyTenantLicense = ApplyTenantLicense
}

// TimeToEnterpriseLicenseExpiry returns a Duration from `asOf` until the current
// enterprise license expires. If a license does not exist, we return a
// zero duration.
func TimeToEnterpriseLicenseExpiry(
    ctx context.Context, st *cluster.Settings, asOf time.Time,
) (time.Duration, error) {
    license, err := getLicense(st)
    if err != nil || license == nil {
        return 0, err
    }
    expiration := timeutil.Unix(license.ValidUntilUnixSec, 0)
    return expiration.Sub(asOf), nil
}

func checkEnterpriseEnabledAt(
    st *cluster.Settings, at time.Time, cluster uuid.UUID, org, feature string, withDetails bool,
) error {
    if atomic.LoadInt32(&enterpriseStatus) == enterpriseEnabled {
        return nil
    }
    license, err := getLicense(st)
    if err != nil {
        return err
    }
    return checkEnterpriseEnabledAt(st, timeutil.Now(), cluster, org, feature, false /* withDetails */)
}
return check(license, at, cluster, org, feature, withDetails)

// getLicense fetches the license from the given settings, using Settings.Cache
// to cache the decoded license (if any). The returned license must not be
// modified by the caller.
func getLicense(st *cluster.Settings) (*licenseccl.License, error) {
    str := enterpriseLicense.Get(&st.SV)
    if str == "" {
        return nil, nil
    }
    cacheKey := licenseCacheKey(str)
    if cachedLicense, ok := st.Cache.Load(cacheKey); ok {
        return cachedLicense.(*licenseccl.License), nil
    }
    license, err := decode(str)
    if err != nil {
        return nil, err
    }
    st.Cache.Store(cacheKey, license)
    return license, nil
}

func getLicenseType(st *cluster.Settings) (string, error) {
    license, err := getLicense(st)
    if err != nil {
        return "", err
    } else if license == nil {
        return "None", nil
    }
    return license.Type.String(), nil
}

// decode attempts to read a base64 encoded License.
func decode(s string) (*licenseccl.License, error) {
    lic, err := licenseccl.Decode(s)
    if err != nil {
        return nil, pgerror.WithCandidateCode(err, pgcode.Syntax)
    }
    return lic, nil
}

// check returns an error if the license is empty or not currently valid. If
// withDetails is false, a generic error message is returned for performance.
func check(l *licenseccl.License, at time.Time, cluster uuid.UUID, org, feature string, withDetails bool,)
    error {

if l == nil {
  if !withDetails {
    return errEnterpriseRequired
  }
  // TODO(dt): link to some stable URL that then redirects to a helpful page
  // that explains what to do here.
  link := "https://cockroachlabs.com/pricing?cluster="
  return pgerror.Newf(pgcode.CCLInvalidLicenseRequired,
    "use of %s requires an enterprise license. "+
    "see %s%s for details on how to enable enterprise features",
    errors.Safe(feature),
    link,
    cluster.String(),
  )
}

// We extend some grace period to enterprise license holders rather than
// suddenly throwing errors at them.
if l.ValidUntilUnixSec > 0 && l.Type != licenseccl.License_Enterprise {
  if expiration := timeutil.Unix(l.ValidUntilUnixSec, 0); at.After(expiration) {
    if !withDetails {
      return errEnterpriseRequired
    }
    licensePrefix := redact.SafeString("")
    switch l.Type {
      case licenseccl.License_NonCommercial:
        licensePrefix = "non-commercial 
      case licenseccl.License_Evaluation:
        licensePrefix = "evaluation 
    }
    return pgerror.Newf(pgcode.CCLInvalidLicenseRequired,
      "Use of %s requires an enterprise license. Your %slicense expired on %s. If you're "+
      "interested in getting a new license, please contact subscriptions@cockroachlabs.com "+
      "and we can help you out.",
      errors.Safe(feature),
      licensePrefix,
      expiration.Format("January 2, 2006"),
    )
  }
}

if l.ClusterID == nil {
  if strings.EqualFold(l.OrganizationName, org) {
    return nil
  }
  if !withDetails {
    return errEnterpriseRequired
  }
return pgerror.Newf(pgcode.CCLValidLicenseRequired, "license valid only for %%q, l.OrganizationName"
}

for _, c := range l.ClusterID {
    if cluster == c {
        return nil
    }
}

// no match, so compose an error message.
if !withDetails {
    return errEnterpriseRequired
}
var matches bytes.Buffer
for i, c := range l.ClusterID {
    if i > 0 {
        matches.WriteString(",
    }
    matches.WriteString(c.String())
}
matches.WriteString(cluster.String())
return pgerror.Newf(pgcode.CCLValidLicenseRequired, "license for cluster(s) %s is not valid for cluster %s", matches.String(), cluster.String(),
}

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//
//    https://github.com/cockroachdb/cockroach/blob/master/licenses/CCL.txt

import React from "react";

import step1Img from "assets/nodeMapSteps/1-getLicense.png";
import step2Img from "assets/nodeMapSteps/2-setKey.svg";
import step3Img from "assets/nodeMapSteps/3-seeMap.png";

import { NodeCanvasContainerOwnProps } from "src/views/clusterviz/containers/map/nodeCanvasContainer";
import * as docsURL from "src/util/docs";
import "/needEnterpriseLicense.styl";

// This takes the same props as the NodeCanvasContainer which it is swapped out with.

function Step(props: { num: number; img: string; children: React.ReactNode }) {
    return (}
export default class NeedEnterpriseLicense extends React.Component<NodeCanvasContainerOwnProps> {
  render() {
    return (
      <section className="need-license">
        <div className="need-license-blurb">
          <h1 className="base-heading need-license-blurb__header">
            View the Node Map
          </h1>
          <p className="need-license-blurb__text">
            The Node Map shows the geographical layout of your cluster, along with metrics and health indicators. To enable the Node Map, request an Enterprise trial license and refer to this configuration guide.
          </p>
          <a href={docsURL.startTrial} className="need-license-blurb__trial-link" target="_blank" rel="noreferrer">
            GET A 30-DAY ENTERPRISE TRIAL
          </a>
        </div>
      </section>
    );
  }
}
<div className="need-license-steps">
  <Step num={1} img={step1Img}>
    <a href={docsURL.startTrial} target="_blank" rel="noreferrer">
      Get a trial license
    </a>
    delivered straight to your inbox.
  </Step>
  <Step num={2} img={step2Img}>
    Activate the trial license with two simple SQL commands.
  </Step>
  <Step num={3} img={step3Img}>
    Follow this guide to configure localities and locations.
  </Step>
</div>

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package sql

import {
  "context"
  "github.com/cockroachdb/cockroach/pkg/settings"
  "github.com/cockroachdb/cockroach/pkg/sql/pgwire/pgerror"
  "github.com/cockroachdb/cockroach/pkg/sql/pgwire/pgnotice"
  "github.com/cockroachdb/cockroach/pkg/util/log"
}

// NoticesEnabled is the cluster setting that allows users to enable notices.
var NoticesEnabled = settings.RegisterBoolSetting("sql.notices.enabled", "enable notices in the server/client protocol being sent", "true")
true,
).WithPublic()

// noticeSender is a subset of RestrictedCommandResult which allows
// sending notices.

type noticeSender interface {
    BufferNotice(pgnotice.Notice)
}

// BufferClientNotice implements the tree.ClientNoticeSender interface.
func (p *planner) BufferClientNotice(ctx context.Context, notice pgnotice.Notice) {
    if log.V(2) {
        log.Infof(ctx, "buffered notice: %v", notice)
    }
    noticeSeverity, ok := pgnotice.ParseDisplaySeverity(pgerror.GetSeverity(notice))
    if !ok {
        noticeSeverity = pgnotice.DisplaySeverityNotice
    }
    if p.noticeSender == nil ||
        noticeSeverity > pgnotice.DisplaySeverity(p.SessionData().NoticeDisplaySeverity) ||
        !NoticesEnabled.Get(&p.execCfg.Settings.SV) {
        // Notice cannot flow to the client - because of one of these conditions:
        // * there is no client
        // * the session's NoticeDisplaySeverity is higher than the severity of the notice.
        // * the notice protocol was disabled
        return
    }
    p.noticeSender.BufferNotice(notice)
}

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SOFTWARE.
package licenseccl

import (  
fmt "fmt"  
github_com_cockroachdb_cockroach_pkg_util_uuid "github.com/cockroachdb/cockroach/pkg/util/uuid"  
_ "github.com/gogo/protobuf/gogoproto"  
proto "github.com/gogo/protobuf/protobuf/proto"  
io "io"  
math "math"  
math_bits "math/bits"  
)  

// Reference imports to suppress errors if they are not otherwise used.  
var _ = proto.Marshal  
var _ = fmt.Errorf  
var _ = math.Inf  

// This is a compile-time assertion to ensure that this generated file  
// is compatible with the proto package it is being compiled against.  
// A compilation error at this line likely means your copy of the  
// proto package needs to be updated.  
const _ = proto.GoGoProtoPackageIsVersion3  // please upgrade the proto package

type License_Type int32

const (  
License_NonCommercial License_Type = 0  
License_Enterprise    License_Type = 1  
License_Evaluation    License_Type = 2  
)

var License_Type_name = map[int32]string{  
0: "NonCommercial",  
1: "Enterprise",  
2: "Evaluation",  
}

var License_Type_value = map[string]int32{  
"NonCommercial": 0,  
"Enterprise":   1,  
"Evaluation":   2,  
}

func (x License_Type) String() string {  
return proto.EnumName(License_Type_name, int32(x))}
func (License_Type) EnumDescriptor() ([]byte, []int) {
    return fileDescriptor_765066c8b2c94c63, []int{0, 0}
}

type License struct {
    ClusterID    []github_com_cockroachdb_cockroach_pkg_util_uuid.UUID
    `protobuf:"bytes,1,rep,name=cluster_id,json=clusterId,proto3,customtype=github.com/cockroachdb/cockroach/pkg/util/uuid.UUID" json:"cluster_id"`
    ValidUntilUnixSec int64
    `protobuf:"varint,2,opt,name=valid_until_unix_sec,json=validUntilUnixSec,proto3" json:"valid_until_unix_sec,omitenempty"
    Type License_Type
    `protobuf:"varint,3,opt,name=type,proto3,enum=cockroach.ccl.utilccl.licenseccl.License_Type" json:"type,omitenempty"
    OrganizationName string
    `protobuf:"bytes,4,opt,name=organization_name,json=organizationName,proto3" json:"organization_name,omitenempty"
}

func (m *License) Reset() { *m = License{ } }
func (m *License) String() string { return proto.CompactTextString(m) }
func (*License) ProtoMessage() {}
func (m *License) Descriptor() ([]byte, []int) {
    return fileDescriptor_765066c8b2c94c63, []int{0}
}
func (m *License) XXX.Unmarshal(b []byte) error {
    return m.Unmarshal(b)
}
func (m *License) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
    b = b[:cap(b)]
    n, err := m.MarshalToSizedBuffer(b)
    if err != nil {
        return nil, err
    }
    return b[:n], nil
}
func (m *License) XXX_Merge(src proto.Message) {
    xxx_messageInfo_License.Merge(m, src)
}
func (m *License) XXX_Size() int {
    return m.Size()
}
func (m *License) XXX_DiscardUnknown() {
    xxx_messageInfo_License.DiscardUnknown(m)
}
var xxx_messageInfo_License proto.InternalMessageInfo

func init() {
    proto.RegisterEnum("cockroach.ccl.utilccl.licenseccl.License_Type", License_Type_name, License_Type_value)
    proto.RegisterType((*License)(nil), "cockroach.ccl.utilccl.licenseccl.License")
}

func init() {
    proto.RegisterFile("ccl/utilccl/licenseccl/license.proto", fileDescriptor_765066c8b2c94c63)
}

var fileDescriptor_765066c8b2c94c63 = []byte{
    // 362 bytes of a gzipped FileDescriptorProto
    0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x84, 0x91, 0x31, 0x8f, 0xda, 0x30,
    0x1c, 0xc5, 0x63, 0x40, 0x8a, 0x00, 0x5a, 0x14, 0x22, 0x86, 0xa8, 0x83, 0x89, 0x55, 0x87, 0x48,
    0xad, 0x1c, 0xa9, 0x4c, 0x5d, 0x81, 0x4a, 0x45, 0xa5, 0x18, 0xd2, 0x66, 0xe9, 0x12, 0x19, 0xc7,
    0x0a, 0x16, 0x8e, 0x1d, 0x25, 0x36, 0x82, 0x7e, 0x8a, 0x7e, 0xc2, 0xb6, 0x63, 0x44, 0x37, 0xa0,
    0xbb, 0xf0, 0x45, 0x4e, 0x09, 0x8e, 0x60, 0xbb, 0xc9, 0xcf, 0x7a, 0xc9, 0xff, 0xf7, 0xff, 0xc9,
    0xff, 0x03, 0xa5, 0x22, 0x30, 0x9a, 0xb8, 0xf9, 0x14, 0x9c, 0x32, 0x59, 0xb2, 0xb3, 0x89, 0xf3,
    0x42, 0x69, 0xce, 0x78, 0x54, 0xda, 0x75, 0x5a, 0x08, 0x5d, 0x61, 0x4a, 0x05, 0x8e, 0x6f, 0xf1,
    0x02, 0xff, 0x69, 0x90, 0x9a, 0x54, 0x35, 0x01, 0xa0, 0x56, 0x17, 0x6e, 0xf4, 0xd0, 0x82, 0xef,
    0xf7, 0x5d, 0x42, 0x4e, 0x0a, 0x21, 0x15, 0x9a, 0xd4, 0xac, 0x88, 0x79, 0xe2, 0x02, 0xa9, 0xed,
    0x7f, 0x98, 0xf0, 0x0a, 0x0d, 0x86, 0x6d, 0x8e, 0x89, 0x5e, 0x99, 0x25, 0xa6, 0x2a, 0x06, 0x5e, 0x9a, 0x4a, 0x96, 0x37, 0x1d, 0xe4, 0xe9, 0xb4, 0x59, 0x33, 0x30, 0x86, 0xb7,
    0x38, 0x8a, 0xb3, 0xe3, 0x4e, 0xe2, 0x03, 0x5c, 0xb3, 0xb0, 0x7b, 0x9d, 0x3d, 0x4f, 0x9c, 0x00, 0xe0, 0x36, 0x44, 0xf0, 0x24, 0x36, 0x52, 0x73, 0x11, 0x1b, 0xc9, 0xb7, 0x71, 0xc9, 0x9a, 0xdb, 0xf2, 0x80, 0xdf, 0xe0, 0xfb, 0x8d, 0xf7, 0xd5, 0x56, 0x24, 0x0f, 0x6f, 0x37,
    0xa3, 0xce, 0x04, 0x76, 0xf4, 0x2e, 0x67, 0x6e, 0xdb, 0x03, 0x7e, 0xef, 0xb1, 0xc6, 0x6f, 0x95,
    0xc5, 0xd7, 0x4a, 0xf8, 0xcf, 0xe2, 0x67, 0x61, 0xc3, 0x3a, 0x5f, 0x60, 0x5f, 0x15, 0x29, 0x91,
    0x9c, 0xf1, 0xda, 0x5c, 0x09, 0x58, 0x92, 0x8c, 0xb9, 0x1d, 0xf0, 0x8f, 0xdd, 0x0e, 0xe3, 0x37,
    0x16, 0x24, 0x63, 0xa3, 0xef, 0xb0, 0x53, 0xa3, 0x4e, 0x1f, 0xe7, 0x5c, 0x28, 0x39, 0x55, 0x59,
    0xc6, 0xa0, 0xca, 0x89, 0xc2, 0x2d, 0x7a, 0xf0, 0xe1, 0x0f, 0xa9, 0x59, 0x91, 0xd7, 0xb4, 0x64,
    0x36, 0x8c, 0xc2, 0x33, 0x8d, 0x0e, 0x8b, 0x2e, 0xdf, 0x35, 0xdf, 0x30, 0xe9, 0x00, 0x00,
    0xf0, 0xff, 0x36, 0x56, 0xd, 0xf6, 0xe6, 0x01, 0x00, 0x00,
}

func (m *License) Marshal() (dAtA []byte, err error) {
    size := m.Size()
    dAtA = make([]byte, size)
    n, err := m.MarshalToSizedBuffer(dAtA[:size])
    if err != nil {
        return nil, err
    }
    return dAtA[:n], nil
}
func (m *License) MarshalTo(dAtA []byte) (int, error) {
    size := m.Size()
    return m.MarshalToSizedBuffer(dAtA[:size])
}

func (m *License) MarshalToSizedBuffer(dAtA []byte) (int, error) {
    i := len(dAtA)
    _ = i
    var l int
    _ = l
    if len(m.OrganizationName) > 0 {
        i -= len(m.OrganizationName)
        copy(dAtA[i:], m.OrganizationName)
        i = encodeVarintLicense(dAtA, i, uint64(len(m.OrganizationName)))
        i--
        dAtA[i] = 0x22
    }
    if m.Type != 0 {
        i = encodeVarintLicense(dAtA, i, uint64(m.Type))
        i--
        dAtA[i] = 0x18
    }
    if m.ValidUntilUnixSec != 0 {
        i = encodeVarintLicense(dAtA, i, uint64(m.ValidUntilUnixSec))
        i--
        dAtA[i] = 0x10
    }
    if len(m.ClusterID) > 0 {
        for iNdEx := len(m.ClusterID) - 1; iNdEx >= 0; iNdEx-- {
            
            size := m.ClusterID[iNdEx].Size()
            i -= size
            if _, err := m.ClusterID[iNdEx].MarshalTo(dAtA[i:]); err != nil {
                return 0, err
            }
            i = encodeVarintLicense(dAtA, i, uint64(size))
            i--
            dAtA[i] = 0xa
        }
    }
    return len(dAtA) - i, nil
}

func encodeVarintLicense(dAtA []byte, offset int, v uint64) int {
    offset -= sovLicense(v)
    base := offset
    for v >= 1<<7 {
    }
dAtA[offset] = uint8(v&0x7f | 0x80)
v >>= 7
offset++
}
dAtA[offset] = uint8(v)
return base
}
func (m *License) Size() (n int) {
if m == nil {
return 0
}
var l int
_ = l
if len(m.ClusterID) > 0 {
for _, e := range m.ClusterID {
l = e.Size()
n += 1 + 1 + sovLicense(uint64(l))
}
}
if m.ValidUntilUnixSec != 0 {
n += 1 + sovLicense(uint64(m.ValidUntilUnixSec))
}
if m.Type != 0 {
n += 1 + sovLicense(uint64(m.Type))
}
l = len(m.OrganizationName)
if l > 0 {
n += 1 + 1 + sovLicense(uint64(l))
}
return n
}
func sovLicense(x uint64) (n int) {
return (math_bits.Len64(x|1) + 6) / 7
}
func sozLicense(x uint64) (n int) {
return sovLicense(uint64((x << 1) ^ uint64((int64(x) >> 63))))
}
func (m *License) Unmarshal(dAtA []byte) error {
    l := len(dAtA)
iNdEx := 0
    for iNdEx < l {
        preIndex := iNdEx
        var wire uint64
        for shift := uint(0); ; shift += 7 {
            if shift >= 64 {
                return ErrIntOverflowLicense
            }
            wire = wire | uint64(dAtA[iNdEx]) << shift
            iNdEx += 1
            if iNdEx >= l {
                return ErrInvalidLengthLicense
            } else if iNdEx >= preIndex + 1 + sovLicense(uint64(l)) {
                break
            }
        }
        switch wire {
        }
    }
    return nil
}
if index >= len {
    return io.ErrUnexpectedEOF
}
b := data[index]
index++
wire |= byte & 0x7F << shift
if b < 0x80 {
    break
}
fieldNum := int32(wire >> 3)
wireType := int(wire & 0x7)
if wireType == 4 {
    return fmt.Errorf("proto: License: wireType end group for non-group")
}
if fieldNum <= 0 {
    return fmt.Errorf("proto: License: illegal tag %d (wire type %d)", fieldNum, wireType)
}
switch fieldNum {
case 1:
    if wireType != 2 {
        return fmt.Errorf("proto: wrong wireType = %d for field ClusterID", wireType)
    }
    var byteLen int
    for shift := uint(0); ; shift += 7 {
        if shift >= 64 {
            return ErrIntOverflowLicense
        }
        if index >= len {
            return io.ErrUnexpectedEOF
        }
b := data[index]
    index++
    byteLen |= byte & 0x7F << shift
    if b < 0x80 {
        break
    }
}
if byteLen < 0 {
    return ErrInvalidLengthLicense
}
postIndex := index + byteLen
if postIndex < 0 {
    return ErrInvalidLengthLicense
}
if postIndex > len {
    return io.ErrUnexpectedEOF
}
var v github_com_cockroachdb_cockroach_pkg_util_uuid.UUID
m.ClusterID = append(m.ClusterID, v)
if err := m.ClusterID[len(m.ClusterID)-1].Unmarshal(dAtA[iNdEx:postIndex]); err != nil {
  return err
}
iNdEx = postIndex
}
case 2:
if wireType != 0 {
  return fmt.Errorf("proto: wrong wireType = %d for field ValidUntilUnixSec", wireType)
}
m.ValidUntilUnixSec = 0
for shift := uint(0); ; shift += 7 {
  if shift >= 64 {
    return ErrIntOverflowLicense
  }
iNdEx = postIndex
  if wireType != 0 {
    return fmt.Errorf("proto: wrong wireType = %d for field Type", wireType)
  }
  m.Type = 0
  for shift := uint(0); ; shift += 7 {
    if shift >= 64 {
      return ErrIntOverflowLicense
    }
iNdEx = postIndex
    b := dAtA[iNdEx]
    iNdEx++
    m.Type |= License_Type(b&0x7F) << shift
    if b < 0x80 {
      break
    }
  }
}
case 3:
if wireType != 0 {
  return fmt.Errorf("proto: wrong wireType = %d for field OrganizationName", wireType)
}
m.OrganizationName = []byte{
for shift := uint(0); ; shift += 7 {
  if shift >= 64 {
    return ErrIntOverflowLicense
  }
iNdEx = postIndex
  if wireType != 0 {
    return fmt.Errorf("proto: wrong wireType = %d for field Type", wireType)
  }
  m.Type = 0
  for shift := uint(0); ; shift += 7 {
    if shift >= 64 {
      return ErrIntOverflowLicense
    }
iNdEx = postIndex
    b := dAtA[iNdEx]
    iNdEx++
    m.Type |= License_Type(b&0x7F) << shift
    if b < 0x80 {
      break
    }
  }
}
case 4:
if wireType != 2 {
  return fmt.Errorf("proto: wrong wireType = %d for field OrganizationName", wireType)
}
var stringLen uint64
for shift := uint(0); ; shift += 7 {
    if shift >= 64 {
        return ErrIntOverflowLicense
    }
    if iNdEx >= 1 {
        return io.ErrUnexpectedEOF
    }
    b := dAtA[iNdEx]
    iNdEx++
    stringLen |= uint64(b&0x7F) << shift
    if b < 0x80 {
        break
    }
}
intStringLen := int(stringLen)
if intStringLen < 0 {
    return ErrInvalidLengthLicense
}
postIndex := iNdEx + intStringLen
if postIndex < 0 {
    return ErrInvalidLengthLicense
}
if postIndex > 1 {
    return io.ErrUnexpectedEOF
}
m.OrganizationName = string(dAtA[iNdEx:postIndex])
iNdEx = postIndex
default:
iNdEx = preIndex
skippable, err := skipLicense(dAtA[iNdEx:])
if err != nil {
    return err
}
if (skippable < 0 || (iNdEx+skippable) < 0 {
    return ErrInvalidLengthLicense
}
if (iNdEx + skippable) > 1 {
    return io.ErrUnexpectedEOF
}
iNdEx += skippable

if iNdEx > 1 {
    return io.ErrUnexpectedEOF
}
return nil
func skipLicense(dAtA []byte) (n int, err error) {
    l := len(dAtA)
    iNdEx := 0
    depth := 0
    for iNdEx < l {
        var wire uint64
        for shift := uint(0); ; shift += 7 {
            if shift >= 64 {
                return 0, ErrIntOverflowLicense
            }
            if iNdEx >= l {
                return 0, io.ErrUnexpectedEOF
            }
            b := dAtA[iNdEx]
            iNdEx++
            wire |= (uint64(b) & 0x7F) << shift
            if b < 0x80 {
                break
            }
        }
        wireType := int(wire & 0x7)
        switch wireType {
        case 0:
            for shift := uint(0); ; shift += 7 {
                if shift >= 64 {
                    return 0, ErrIntOverflowLicense
                }
                if iNdEx >= l {
                    return 0, io.ErrUnexpectedEOF
                }
                b := dAtA[iNdEx]
                iNdEx++
                if dAtA[iNdEx-1] < 0x80 {
                    break
                }
            }
            case 1:
                iNdEx += 8
            case 2:
                var length int
                for shift := uint(0); ; shift += 7 {
                    if shift >= 64 {
                        return 0, ErrIntOverflowLicense
                    }
                    if iNdEx >= l {
                        return 0, io.ErrUnexpectedEOF
                    }
                    b := dAtA[iNdEx]
iNdEx++
length |= (int(b) & 0x7F) << shift
if b < 0x80 {
    break
}
}
if length < 0 {
    return 0, ErrInvalidLengthLicense
}
iNdEx += length
case 3:
    depth++
case 4:
if depth == 0 {
    return 0, ErrUnexpectedEndOfGroupLicense
}
depth--
case 5:
iNdEx += 4
default:
    return 0, fmt.Errorf("proto: illegal wireType %d", wireType)
}
if iNdEx < 0 {
    return 0, ErrInvalidLengthLicense
}
if depth == 0 {
    return iNdEx, nil
}
return 0, io.ErrUnexpectedEOF
}

var (  ErrInvalidLengthLicense = fmt.Errorf("proto: negative length found during unmarshaling")  ErrIntOverflowLicense = fmt.Errorf("proto: integer overflow")  ErrUnexpectedEndOfGroupLicense = fmt.Errorf("proto: unexpected end of group") )

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// Copyright 2017 The Cockroach Authors.
//
package utilccl

import {
    "fmt"
    "testing"
    "time"
    "github.com/cockroachdb/cockroach/pkg/ccl/utilccl/licenseccl"
    "github.com/cockroachdb/cockroach/pkg/testutils"
    "github.com/cockroachdb/cockroach/pkg/util/timeutil"
    "github.com/cockroachdb/cockroach/pkg/util/uuid"
}

func TestLicense(t *testing.T) {
    clusterA, _ := uuid.FromString("A0000000-0000-0000-0000-00000000000A")
    clusterB, _ := uuid.FromString("B0000000-0000-0000-0000-00000000000B")

    clustersA, clustersB := []uuid.UUID{clusterA}, []uuid.UUID{clusterB}
    t0 := timeutil.Unix(0, 0)
    ts := t0.AddDate(40, 0, 0)
    after := ts.Add(time.Hour * 24)
    before := ts.Add(time.Hour * -24)
    wayAfter := ts.Add(time.Hour * 24 * 365 * 200)

    for i, tc := range []struct {
        licType     licenseccl.License_Type
        grantedTo   []uuid.UUID
        expiration  time.Time
        checkCluster uuid.UUID
        checkOrg    string
        checkTime   time.Time
        err         string
    }{
        {licType: -1, err: "requires an enterprise license"},
        {licenseccl.License_Evaluation, clustersA, ts, clusterA, "", ts, ""},
        {licenseccl.License_Enterprise, clustersA, ts, clusterA, "", ts, ""},
        {licenseccl.License_NonCommercial, clustersA, ts, clusterA, "", ts, ""},
        {licenseccl.License_Evaluation, clustersA, after, clusterA, "", ts, ""},
        {licenseccl.License_Evaluation, clustersA, ts, clusterA, "", before, ""},
        {licenseccl.License_Evaluation, clustersA, wayAfter, clusterA, "", ts, ""},
    }
    ...
// expirations.
{licenseccl.License_Evaluation, clustersA, ts, clusterA, "", after, "expired"},
{licenseccl.License_Evaluation, clustersA, after, clusterA, "", wayAfter, "expired"},
{licenseccl.License_NonCommercial, clustersA, after, clusterA, "", wayAfter, "expired"},
{licenseccl.License_NonCommercial, clustersA, t0, clusterA, "", wayAfter, ""},
{licenseccl.License_Evaluation, clustersA, t0, clusterA, "", wayAfter, ""},

// grace period.
{licenseccl.License_Enterprise, clustersA, after, clusterA, "", wayAfter, ""},

// mismatch.
{licenseccl.License_Enterprise, clustersA, ts, clusterB, "", ts, "not valid for cluster"},
{licenseccl.License_Enterprise, clustersB, ts, clusterA, "", ts, "not valid for cluster"},
{licenseccl.License_Enterprise, append(clustersB, clusterA), ts, clusterA, "", ts, ""},
{licenseccl.License_Enterprise, nil, ts, clusterA, "", ts, "license valid only for"},
{licenseccl.License_Enterprise, nil, ts, clusterA, "tc-17", ts, ""},

} {lic *licenseccl.License
if tc.licType != -1 { s, err := (&licenseccl.License{
ClusterID:           tc.grantedTo,
ValidUntilUnixSec:   tc.expiration.Unix(),
Type:                tc.licType,
OrganizationName:    fmt.Sprintf("tc-%d", i),
}).Encode()
if err != nil {
    t.Fatal(err)
}
lic, err = decode(s)
if err != nil {
    t.Fatal(err)
}
}

if err := check(
    lic, tc.checkTime, tc.checkCluster, tc.checkOrg, "", true,
    ); !testutils.IsError(err, tc.err) {
    t.Fatalf("%d: lic for %s to %s, checked by %s at %s\n got %q", i,
        tc.grantedTo, tc.expiration, tc.checkCluster, tc.checkTime, err)
}

}

func TestBadLicenseStrings(t *testing.T) {
    for _, tc := range []struct{ lic, err string }{
        "blah", "invalid license string"},
        "crl-0-&&&&&", "invalid license string"},
        "crl-0-blah", "invalid license string"},
func TestBadLicenseStrings(t *testing.T) {
    for _, tc := range []struct{ lic, err string }{
        "blah", "invalid license string"},
        "crl-0-&&&&&", "invalid license string"},
        "crl-0-blah", "invalid license string"},

func TestExpiredLicenseLanguage(t *testing.T) {
  lic := &licenseccl.License{
    Type:     licenseccl.License_Evaluation,
    ValidUntilUnixSec: 1,
  }
  err := check(lic, timeutil.Now(), uuid.MakeV4(), "", "RESTORE", true)
  expected := "Use of RESTORE requires an enterprise license. Your evaluation license expired on " +
    "January 1, 1970. If you're interested in getting a new license, please contact " +
    "subscriptions@cockroachlabs.com and we can help you out."
  if err == nil || err.Error() != expected {
    t.Fatalf("expected err:
%s
got:
%v", expected, err)
  }
}

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//
//     https://github.com/cockroachdb/cockroach/blob/master/licenses/CCL.txt

package utilccl

import {
  "context"
  "testing"
  "time"
}

"github.com/cockroachdb/cockroach/pkg/ccl/utilccl/licenseccl"
"github.com/cockroachdb/cockroach/pkg/settings/cluster"
"github.com/cockroachdb/cockroach/pkg/testutils"
"github.com/cockroachdb/cockroach/pkg/util/envutil"
"github.com/cockroachdb/cockroach/pkg/util/timeutil"
"github.com/cockroachdb/cockroach/pkg/util/uuid"
"github.com/stretchr/testify/require"
}

func TestSettingAnd CheckingLicense(t *testing.T) {
  idA, _ := uuid.FromString("A0000000-0000-0000-0000-00000000000A")
  idB, _ := uuid.FromString("B0000000-0000-0000-0000-00000000000B")
}
ctx := context.Background()
t0 := timeutil.Unix(0, 0)

licA, _ := (&licenseccl.License{
ClusterID: []uuid.UUID{idA},
Type: licenseccl.License_Enterprise,
ValidUntilUnixSec: t0.AddDate(0, 1, 0).Unix(),
}).Encode()

licB, _ := (&licenseccl.License{
ClusterID: []uuid.UUID{idB},
Type: licenseccl.License_Evaluation,
ValidUntilUnixSec: t0.AddDate(0, 2, 0).Unix(),
}).Encode()

st := cluster.MakeTestingClusterSettings()

for i, tc := range []struct {
lic string
checkCluster uuid.UUID
checkTime time.Time
err string
}{
// NB: we're observing the update manifest as changed behavior -- detailed
// testing of that behavior is left to licenseccl's own tests.
{"", idA, t0, "requires an enterprise license"},
// adding a valid lic.
{licA, idA, t0, ""},
// clearing an existing lic.
{"", idA, t0, "requires an enterprise license"},
// adding invalid lic.
{licB, idA, t0, "not valid for cluster"},
// clearing an existing, invalid lic.
{"", idA, t0, "requires an enterprise license"},

updater := st.MakeUpdater()
if err := updater.Set(ctx, "enterprise.license", tc.lic, "s"); err != nil {
    t.Fatal(err)
}
err := checkEnterpriseEnabledAt(st, tc.checkTime, tc.checkCluster, "", "", true)
if !testutils.IsError(err, tc.err) {
l, _ := decode(tc.lic)
t.Fatalf("%d: lic %v, update by %T, checked by %s at %s, got %q", i, l, updater, tc.checkCluster, tc.checkTime, err)
}
}

func TestGetLicenseTypePresent(t *testing.T) {
ctx := context.Background()
for _, tc := range []struct {
    licenseType licenseccl.License_Type
    expected    string
} {
    {licenseccl.License_NonCommercial, "NonCommercial"},
    {licenseccl.License_Enterprise, "Enterprise"},
    {licenseccl.License_Evaluation, "Evaluation"},
} {
    st := cluster.MakeTestingClusterSettings()
    updater := st.MakeUpdater()
    lic, _ := (&licenseccl.License{
        ClusterID:         []uuid.UUID{},
        Type:              tc.licenseType,
        ValidUntilUnixSec: 0,
    }).Encode()
    if err := updater.Set(ctx, "enterprise.license", lic, ":s"); err != nil {
        t.Fatal(err)
    }
    actual, err := getLicenseType(st)
    if err != nil {
        t.Fatal(err)
    }
    if actual != tc.expected {
        t.Fatalf("expected license type %s, got %s", tc.expected, actual)
    }
}
}

func TestGetLicenseTypeAbsent(t *testing.T) {
    expected := "None"
    actual, err := getLicenseType(cluster.MakeTestingClusterSettings())
    if err != nil {
        t.Fatal(err)
    }
    if actual != expected {
        t.Fatalf("expected license type %s, got %s", expected, actual)
    }
}

func TestSettingBadLicenseStrings(t *testing.T) {
    ctx := context.Background()
    for _, tc := range []struct { lic, err string }
        {"blah", "invalid license string"},
        {"cl-0-blah", "invalid license string"},
    } {
        st := cluster.MakeTestingClusterSettings()
        u := st.MakeUpdater()
if err := u.Set(ctx, "enterprise.license", tc.lic, "s"); !testutils.IsError(err, tc.err, )
} t.Fatalf("%q: expected err %q, got %v", tc.lic, tc.err, err)
}

func TestTimeToEnterpriseLicenseExpiry(t *testing.T) {
    ctx := context.Background()
    id, _ := uuid.FromString("A0000000-0000-0000-0000-00000000000A")

    t0 := timeutil.Unix(1603926294, 0)

    lic1M, _ := (&licenseccl.License{
        ClusterID:    [1]uuid.UUID{id},
        Type:         licenseccl.License_Enterprise,
        ValidUntilUnixSec: t0.AddDate(0, 1, 0).Unix(),
    }).Encode()

    lic2M, _ := (&licenseccl.License{
        ClusterID:    [1]uuid.UUID{id},
        Type:         licenseccl.License_Evaluation,
        ValidUntilUnixSec: t0.AddDate(0, 2, 0).Unix(),
    }).Encode()

    lic0M, _ := (&licenseccl.License{
        ClusterID:    [1]uuid.UUID{id},
        Type:         licenseccl.License_Evaluation,
        ValidUntilUnixSec: t0.AddDate(0, 0, 0).Unix(),
    }).Encode()

    licExpired, _ := (&licenseccl.License{
        ClusterID:    [1]uuid.UUID{id},
        Type:         licenseccl.License_Evaluation,
        ValidUntilUnixSec: t0.AddDate(0, -1, 0).Unix(),
    }).Encode()

    st := cluster.MakeTestingClusterSettings()
    updater := st.MakeUpdater()

    for _, tc := range []struct {
        desc  string
        lic   string
        ttlHours float64
    } {
        "One Month", lic1M, 24 * 31,}
{ "Two Month", lic2M, 24*31 + 24*30},
{ "Zero Month", lic0M, 0},
{ "Expired", licExpired, -24 * 30},
{ "No License", "", 0},
} 

t.Run(tc.desc, func(t *testing.T) {
  if err := updater.Set(ctx, "enterprise.license", tc.lic, "s"); err != nil {
    t.Fatal(err)
  }

  actual, err := TimeToEnterpriseLicenseExpiry(context.Background(), st, t0)
  if err != nil {
    t.Fatal(err)
  }

  require.Equal(t, tc.ttlHours, actual.Hours())
})
}

func TestApplyTenantLicenseWithLicense(t *testing.T) {
  license, _ := (&licenseccl.License{
    Type: licenseccl.License_Enterprise,
  }).Encode()

  defer TestingDisableEnterprise()()
  defer envutil.TestSetEnv(t, "COCKROACH_TENANT_LICENSE", license)()  

  settings := cluster.MakeClusterSettings()

  require.Error(t, CheckEnterpriseEnabled(settings, uuid.MakeV4(), "", ""))
  require.False(t, IsEnterpriseEnabled(settings, uuid.MakeV4(), "", ""))
  require.NoError(t, ApplyTenantLicense())
  require.NoError(t, CheckEnterpriseEnabled(settings, uuid.MakeV4(), "", ""))
  require.True(t, IsEnterpriseEnabled(settings, uuid.MakeV4(), "", ""))
}

func TestApplyTenantLicenseWithoutLicense(t *testing.T) {  
  defer TestingDisableEnterprise()()

  settings := cluster.MakeClusterSettings()
  _, ok := envutil.EnvString("COCKROACH_TENANT_LICENSE", 0)
  envutil.ClearEnvCache()
  require.False(t, ok)

  require.Error(t, CheckEnterpriseEnabled(settings, uuid.MakeV4(), "", ""))
  require.False(t, IsEnterpriseEnabled(settings, uuid.MakeV4(), "", ""))
  require.NoError(t, ApplyTenantLicense())
func TestApplyTenantLicenseWithInvalidLicense(t *testing.T) {
    defer envutil.TestSetEnv(t, "COCKROACH_TENANT_LICENSE", "THIS IS NOT A VALID LICENSE")()
    require.Error(t, ApplyTenantLicense())
}

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package licenseccl
import (  "encoding/base64"  "strings"  "github.com/cockroachdb/cockroach/pkg/util/protoutil"  "github.com/cockroachdb/errors"
)

// LicensePrefix is a prefix on license strings to make them easily recognized.
const LicensePrefix = "crl-0-"

// Encode serializes the License as a base64 string.
func (l *License) Encode() (string, error) {
  bytes, err := protoutil.Marshal(l)
  if err != nil {
    return "", err
  }
  return LicensePrefix + base64.RawStdEncoding.EncodeToString(bytes), nil
}

// Decode attempts to read a base64 encoded License.
func Decode(s string) (*License, error) {
  if s == "" {
    return nil, nil
  }
  if !strings.HasPrefix(s, LicensePrefix) {
    return nil, errors.New("invalid license string")
  }
  s = strings.TrimPrefix(s, LicensePrefix)
  data, err := base64.RawStdEncoding.DecodeString(s)
  if err != nil {
    return nil, errors.Wrapf(err, "invalid license string")
  }
  var lic License
  if err := protoutil.Unmarshal(data, &lic); err != nil {
    return nil, errors.Wrapf(err, "invalid license string")
  }
  return &lic, nil
}

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PostgreSQL Database Management System
(formerly known as Postgres, then as Postgres95)

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1.3011 tevent 0.9.26-1.el7_2.1
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1.3012 libsm 1.2.2-2.el7

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1.3013 wrapt 1.11.1

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### 1.3014 cloud-google-com-go v0.41.0

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```go
package cloud

import (  
    "bytes"  
    "io/ioutil"  
    "os"  
    "path/filepath"  
    "strings"  
    "testing"  
)

var sentinels = []string{  
    "Copyright",  
}  
```
"Google",
Licensed under the Apache License, Version 2.0 (the "License");
}

func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
            return nil
        }
        if strings.HasSuffix(path, ".pb.go") {
            // .pb.go files are generated from the proto files.
            // .proto files must have license headers.
            return nil
        }
        if path == "bigtable/cmd/cbt/cbtdoc.go" {
            // Automatically generated.
            return nil
        }
        if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
            // BSD license, which is compatible, is embedded in the file.
            return nil
        }
        src, err := ioutil.ReadFile(path)
        if err != nil {
            return nil
        }
        src = src[:300] // Ensure all of the sentinel values are at the top of the file.

        // Find license
        for _, sentinel := range sentinels {
            if !bytes.Contains(src, []byte(sentinel)) {
                t.Errorf("%v: license header not present. want %q", path, sentinel)
                return nil
            }
        }

        return nil
    })
    if err != nil {
        t.Fatal(err)
    }
}


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1.3015 pyparsing 2.1.10 7.el8

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1.3016 glibc 2.28-10

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1.3029 armon-go-metrics v0.0.0-20190430140413-ec5e00d3c878

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#+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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1.3041 go-srpm-macros 2-16.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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jar/org/springframework/boot/autoconfigure/liquibase/LiquibaseSchemaManagementProvider.java
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* /opt/ws_local/PERMITS_SQL/1068412481_1594388165.44/0/spring-boot-autoconfigure-2-2-6-release-sources-1.jar/org/springframework/boot/autoconfigure/session/RedisSessionConfiguration.java
* /opt/ws_local/PERMITS_SQL/1068412481_1594388165.44/0/spring-boot-autoconfigure-2-2-6-release-sources-1.jar/org/springframework/boot/autoconfigure/freemarker/FreemarkerWebConfiguration.java
* /opt/ws_local/PERMITS_SQL/1068412481_1594388165.44/0/spring-boot-autoconfigure-2-2-6-release-sources-1.jar/org/springframework/boot/autoconfigure/security/servlet/RequestMatcherProvider.java
* /opt/ws_local/PERMITS_SQL/1068412481_1594388165.44/0/spring-boot-autoconfigure-2-2-6-release-sources-1.jar/org/springframework/boot/autoconfigure/h2/H2ConsoleAutoConfiguration.java
* /opt/ws_local/PERMITS_SQL/1068412481_1594388165.44/0/spring-boot-autoconfigure-2-2-6-release-sources-1.jar/org/springframework/boot/autoconfigure/influx/InfluxDbProperties.java
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1.3048 e2fsprogs 1.45.5 2ubuntu1

1.3048.1 Available under license:

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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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
 Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 /*
 */
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-  Copyright (C) Andrew Tridgell 2005
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Theodore Ts'o
23-June-2007

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Gadi Oxman, August 1995

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jar/springfox/documentation/spring/web/plugins/DuplicateGroupsDetector.java

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* /opt/cola/permits/1177939630_1625570717.51/0/springfox-spring-web-2-9-2-sources-3-
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* /opt/cola/permits/1177939630_1625570717.51/0/springfox-spring-web-2-9-2-sources-3-jar/springfox/documentation/spring/web/scanners/ApiDocumentationScanner.java
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* /opt/cola/permits/1177939630_1625570717.51/0/springfox-spring-web-2-9-2-sources-3-jar/springfox/documentation/spring/web/readers/operation/OperationResponseClassReader.java
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* /opt/cola/permits/1177939630_1625570717.51/0/springfox-spring-web-2-9-2-sources-3-jar/springfox/documentation/spring/web/readers/operation/ResponseMessagesReader.java
* /opt/cola/permits/1177939630_1625570717.51/0/springfox-spring-web-2-9-2-sources-3-jar/springfox/documentation/spring/web/SpringfoxWebMvcConfiguration.java

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  jar/springfox/documentation/spring/web/PropertySourcedMapping.java
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  jar/springfox/documentation/spring/web/plugins/PathAndParametersEquivalence.java
* /opt/cola/permits/1177939630_1625570717.51/0/springfox-spring-web-2-9-2-sources-3-
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  jar/springfox/documentation/spring/web/plugins/JacksonSerializerConvention.java
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* /opt/cola/permits/1177939630_1625570717.51/0/springfox-spring-web-2-9-2-sources-3-
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* /opt/cola/permits/1177939630_1625570717.51/0/springfox-spring-web-2-9-2-sources-3-
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* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
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org.apache.taglibs:taglibs-standard-impl
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
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org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
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org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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-------------

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THE BASIC LIBRARY FUNCTIONS

---------------------------

Written by:  Philip Hazel
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PCRE2 JUST-IN-TIME COMPILATION SUPPORT

--------------------------------------

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/*

***********************************************************************

ppport.h -- Perl/Pollution/Portability Version 3.16

Automatically created by Devel::PPPort running under perl 5.011000.

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
NAME

ppport.h - Perl/Pollution/Portability version 3.16

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.

--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.
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 your 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>
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<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>
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<td>NEED_eval_pv</td>
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</tr>
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<td>grok_bin()</td>
<td>NEED_grok_bin</td>
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<td>NEED_grok_hex</td>
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</tr>
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<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>
<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_2pv_flags()</td>
<td>NEED_sv_2pv_flags</td>
<td>NEED_sv_2pv_flags_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>warner()</td>
<td>NEED_warner</td>
<td>NEED_warner_GLOBAL</td>
</tr>
</tbody>
</table>

To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

```
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C<DPPP_>.
The good thing is that most of the above can be checked by running `F<ppport.h>` on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether `F<ppport.h>` is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, `F<ppport.h>` can be run as a Perl script to check your source code. Simply say:

    perl ppport.h

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

    perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions for changes, use:

    perl ppport.h --nochanges

You can specify a different C<diff> program or options, using the C<--diff> option:

    perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

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 pppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

perl pppport.h --api-info=/.

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during
the compilation of this module, please check if newer versions
of either this module or C<Devel::PPPort> are available on CPAN
before sending a bug report.

If F<ppport.h> was generated using the latest version of
C<Devel::PPPort> and is causing failure of this module, please
file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4

=item 1.
The complete output from running "perl -V"

=item 2.
This file.

=item 3.
The name and version of the module you were trying to build.

=item 4.
A full log of the build that failed.

=item 5.
Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort>
module from CPAN.
use strict;

# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.16;

my %opt = (
    quiet => 0,
    diag => 1,
    hints => 1,
    changes => 1,
    cplusplus => 0,
    filter => 1,
    strip => 0,
    version => 0,
);
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(
AvFILLp|5.004050||p
AvFILL|||
CLASS|||n
CPERLscope|||p
CX_CURPAD_SAVE|||
CX_CURPAD_SV|||
CopFILEAV|5.006000||p

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INT2PTR
IN_LOCALE_COMPILETIME
IN_LOCALE_RUNTIME
IN_LOCALE
IN_PERL_COMPILETIME
IS_NUMBER_GREATER_THAN_UV_MAX
IS_NUMBER_INFINITY
IS_NUMBER_IN_UV
IS_NUMBER_NAN
IS_NUMBER_NEG
IS_NUMBER_NOT_INT
IVSIZE
IVTYPE
IVd
LEAVE
LVRET
MARK
MULTICALL
MY_CTX_CLONE
MY_CTX_INIT
MY_CTX
MoveD
Move
NOOP
NUM2PTR
NVTYPE
NVef
NVfr
NVgf
Newxc
Newxz
Newx
Nullav
Nullch
Nullcv
Nullhv
Nullsv
ORIGMARK
PAD_BASE_SV
PAD_CLONE_VARS
PAD_COMPNAME_FLAGS
PAD_COMPNAME_GEN
PAD_COMPNAME_OURSTASH
PAD_COMPNAME_PV
PAD_COMPNAME_TYPE
PAD_DUP
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
PERLIO_FUNCS_DECL
PERL_ABS
PERL_BCDVERSION
PERL_GCC_BRACE_GROUPS_FORBIDDEN
PERL_HASH
PERL_INT_MAX
PERL_INT_MIN
PERL_LONG_MAX
PERL_LONG_MIN
PERL_MAGIC_arylen
PERL_MAGIC_backref
PERL_MAGIC_bm
PERL_MAGIC_collxfrm
PERL_MAGIC_dbfile
PERL_MAGIC_dbline
PERL_MAGIC_defelem
PERL_MAGIC_envelem
PERL_MAGIC_env
PERL_MAGIC_ext
PERL_MAGIC_fm
PERL_MAGIC_glob
PERL_MAGIC_isaelem
PERL_MAGIC_isa
PERL_MAGIC_mutex
PERL_MAGIC_nkeys
PERL_MAGIC_overload_elem
PERL_MAGIC_overload_table
PERL_MAGIC_overload
PERL_MAGIC_pos
PERL_MAGIC_qr
PERL_MAGIC_regdata
PERL_MAGIC_regdatum
PERL_MAGIC_regex_global
PERL_MAGIC_shared
PERL_MAGIC_shared_scalar
PERL_MAGIC_shared
PERL_MAGIC_sigelem
PERL_MAGIC_sig
PERL_MAGIC_substr
PERL_MAGIC_sv
PERL_MAGIC_taint
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|p
PL_bufptr|p
PL_compling|5.004050|p
PL_copline|5.011000|p
PL_curcop|5.004050|p
PL_curstash|5.004050|p
PL_debstash|5.004050|p
PL_defgv|5.004050|p
PL_diehook|5.004050|p
PL_dirty|5.004050|p
PL_dowarn|pn
PL_errv|5.004050|p
PL_expect|5.011000|p
PL_hexdigit|5.005000|p
PL_hints|5.005000|p
PL_last_in_gv|ln
PL_laststatval|5.005000|p
PL_lex_state|p
PL_lex_stuff|p
PL_linestr|p
PL_modglobal|5.005000|n
PL_na|5.004050|pn
PL_no_modify|5.006000|p
PL_ofs_sv|ln
PL_parser|p
PL_perl_destruct_level|5.004050|p
PL_perldb|5.004050|p
PL_ppaddr|5.006000|p
PL_psfp_filters|5.004050|p
PL_psfp|5.004050|p
PL_ps|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_unsh|5.004050|pn
PL_sv_ye|5.004050|pn
PL_tainted|5.004050|p
PL_tainting|5.004050|p
PL_tokenbuf
POP_MULTICALL
POPi
POPl
POPl
POPl
POPs
POP vehement[5.00700]n
POP px[5.005030]n
POP p
POP pbytex
POP px
POP p
POPs
POP s
POP s
POPs
POP u
POP u
POPs
POP mortal
POP n
POP n
POP p
POP p
POP s
POP signbit
POPs
PUSHMARK
PUSH_MULTICALL
PUSH
PUSH mortal[5.009002]n
PUSH n
PUSH p
PUSH s
PUSH u
PUTBACK
PerlIO_clearerr
PerlIO_close
PerlIO_context_layers
PerlIO_eof
PerlIO_error
PerlIO_filenos
PerlIO_fill
PerlIO_flush
PerlIO_get_base
PerlIO_get_buffers
PerlIO_get_cnt
PerlIO_get_ptr
PerlIO_read
PerlIO_seek
PerlIO_set_cnt
PerlIO_set_ptrcnt
PerlIO_set_linebuf
PerlIO_stderr
PerlIO_stdin
PerlIO_stdout
PerlIO_tell
PerlIO_unread
PerlIO_write
Perl_signbit
PoisonFree
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_set||
SvNVx||
SvNV||
SvOK||
SvOOK_offset|5.011000|
SvOOK||
SvPOK_off||
SvPOK_only_UTF8|5.006000|
SvPOK_only||
SvPOK_on||
SvPOKp||
SvPOK||
SvPVX_const|5.009003||p
SvPVX_mutable|5.009003||p
SvPVX||
SvPV_const|5.009003||p
SvPV_flags_const_nolen|5.009003||p
SvPV_flags_const|5.009003||p
SvPV_flags_mutable|5.009003||p
SvPV_flags[5.007002]|p
SvPV_force_flags_mutable[5.009003]|p
SvPV_force_flags_nolen[5.009003]|p
SvPV_force_flags[5.007002]|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||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[5.007002]|p
SvPV_renew||p
SvPV_set||
SvPVbyte_force[5.009002]
SvPVbyte_nolen[5.006000]
SvPVbyte_force[5.006000]
SvPVbyte[5.006000]
SvPVbyte[5.006000]
SvPVutf8_force[5.006000]
SvPVutf8_nolen[5.006000]
SvPVutf8x_force[5.006000]
SvPVutf8x[5.006000]
SvPVutf8[5.006000]
SvPVx[]
SvPVV[]
SvREFCNT_dec[]
SvREFCNT_inc NN[5.009004]|p
SvREFCNT_inc_simple NN[5.009004]|p
SvREFCNT_inc_simple void NN[5.009004]|p
SvREFCNT inc simple void[5.009004]|p
SvREFCNT inc simple[5.009004]|p
SvREFCNT inc void NN[5.009004]|p
SvREFCNT inc void[5.009004]|p
SvREFCNT inc[]|p
SvREFCNT[]
SvROK off[]
SvROK on[]
SvROK[]
SvRV set[5.009003]|p
SvRV[]
SvRXOK[5.009005]
SvRX[5.009005]
SvSETMAGIC[]
SvSHARE d_HASH[5.009003]|p
SvSHARE|5.007003|
SvSTASH_set|5.009003|p
SvSTASH||
SvSetMagicSV_nosteal|5.004000|
SvSetMagicSV|5.004000|
SvSetSV_nosteal|5.004000|
SvSetSV||
SvTAINTED_off|5.004000|
SvTAINTED_on|5.004000|
SvTAINTED|5.004000|
SvTAINT||
SvTRUE||
SvTYPE||
SvUNLOCK|5.007003|
SvUOK|5.007001|5.006000|p
SvUPGRADE||
SvUTF8_off|5.006000|
SvUTF8_on|5.006000|
SvUTF8|5.006000|
SvUVXx|5.004000|p
SvUVX|5.004000|p
SvUV_nomg|5.009001|p
SvUV_set|5.009003|p
SvUVx|5.004000|p
SvUV|5.004000|p
SvVOK|5.008001|
SvVSTRING_mg|5.009004|p
THIS||n
UNDERBAR|5.009002|p
UTF8_MAXBYTES|5.009002|p
UVSIZE|5.006000|p
UVTYPE|5.006000|p
UVXf|5.007001|p
UVof|5.006000|p
UVuf|5.006000|p
UVxf|5.006000|p
WARN_ALL|5.006000|p
WARN_AMBIGUOUS|5.006000|p
WARN_ASSERTIONS|5.011000|p
WARN_BAREWORD|5.006000|p
WARN.Closed|5.006000|p
WARN_CLOSURE|5.006000|p
WARN_DEBUGGING|5.006000|p
WARN_DEPRECATED|5.006000|p
WARN_DIGIT|5.006000|p
WARN_EXEC|5.006000|p
WARN_EXITING|5.006000|p
WARN_GLOB|5.006000|p
ckWARN|5.006000||p
ck_anoncode||
ck_bitop||
ck_concat||
ck_defined||
ck_delete||
ck_die||
ck_each||
ck_eof||
ck_eval||
ck_exec||
ck_exists||
ck_exit||
ck_ftst||
ck_fun||
ck_glob||
ck_grep||
ck_index||
ck_join||
ck_ftn||
ck_listobj||
ck_match||
ck_method||
ck_null||
ck_open||
ck_readline||
ck_repeat||
ck_require||
ck_return||
ck_rfun||
ck_rvconst||
ck_sassign||
ck_select||
ck_shift||
ck_sort||
ck_spair||
ck_split||
ck_subr||
ck_substr||
ck_svconst||
ck_trunc||
ck_unpack||
ckwarn_d|5.009003|
ckwarn|5.009003|
cl_and|n
cl_anything|n
cl_init_zero|n
cl_init|n
cl_is_anything
cl_or
clearplaceholders
closest_cop
convert
cop_free
cr_textfilter
create_eval_scope
croak_nocontext
croak_xs_usage
croak


csighandler
curmad
custom_op_desc
custom_op_name
cv_ckproto_len
cv_ckproto
cv_clone
cv_const_sv
cv_dump
cv_undef
cx_dump
cx_dup
cxinc
dAXMARK
dAX
dITEMS
dMARK
dMULTICALL
dMY_CXT_SV
dMY_CXT
dNOOP
dORIGMARK
dSP
dTHR
dTHXR
dTHXa
dTHXoa
dTHX
dUNDERBAR
dVAR
dXCPT
dXSARGS
dXSI32
dXSTARG
deb_curcv
deb_nocontext
deb_stack_all
deb_stack_n
debop|5.005000|
debprofdump|5.005000|
debprof|
debstackptrs|5.007003|
debstack|5.007003|
debug_start_match||
deb|5.007003|
del_svl||
delete_eval_scope||
delimcpy|5.004000|
deprecate_old||
deprecate||
despatch_signals|5.007001|
destroy_matcher||
die_nocontext||
die_where||
die|v|
dirp_dup||
div128||
djSP||
do_aexec5||
do_aexec||
do_aspawn||
do_binmode|5.004050|
do_chomp||
do_chop||
do_close||
do_dump_pad||
do_eot||
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_kv||
do_magic_dump|5.006000|
do_msgrecv||
do_msgsnd||
do_oddball||
do_op_dump|5.006000|
do_op_xmlmdump||
do_open9|5.006000|
do_openn|5.007001|
free_global_struct
free_tied_hv_pool
free_tmps
gen_constant_list
get_arena
get_aux_mg
get_av[5.006000]|p
get_context[5.006000]|n
get_cvn_flags[5.009005]
get_cv[5.006000]|p
get_db_sub
get_debug_opts
get_hash_seed
get_hv[5.006000]|p
get_mstats
get_no_modify
get_num
get_op_descs[5.005000]
gep_op_names[5.005000]
gep_opargs
get_ppaddr[5.006000]
gep_re_arg
get_sv[5.006000]|p
get_vtbl[5.005030]
getcwd_sv[5.007002]
getenv_len
glob_2number
glob_2pv
glob_assign_glob
glob_assign_ref
gp_dup
gp_free
gp_ref
grok_bin[5.007003]|p
grok_hex[5.007003]|p
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_autoload4[5.004000]
gv_check
gv_const_sv[5.009003]
gv_dump[5.006000]
gv_efullname3[5.004000]
intuit_more||| invert||| io_close||| isALNUMC|||p
isALNUM||| isALPHA||| isASCII|||p
isBLANK|||p
isCNTRL|||p
isDIGIT||| isGRAPH|||p
isLOWER||| isPRINT|||p
isPSXSPC|||p
isPUNCT|||p
isSPACE||| isUPPER||| isXDIGIT|||p
is_an_int||| is_gv_magical_sv||| is_gv_magical|||
is_handle_constructor|||n
is_list_assignment|||
is_Lvalue_sub||| 5.007001
is_uni_alnum_lc||| 5.006000
is_uni_alnumc_lc||| 5.006000
is_uni_alpha_lc||| 5.006000
is_uni_alpha||| 5.006000
is_uni_ascii_lc||| 5.006000
is_uni_ascii||| 5.006000
is_uni_cntrl_lc||| 5.006000
is_uni_cntrl||| 5.006000
is_uni_digit_lc||| 5.006000
is_uni_digit||| 5.006000
is_uni_graph_lc||| 5.006000
is_uni_graph||| 5.006000
is_uni_idfirst_lc||| 5.006000
is_uni_idfirst||| 5.006000
is_uni_lower_lc||| 5.006000
is_uni_lower||| 5.006000
is_uni_print_lc||| 5.006000
is_uni_print||| 5.006000
is_uni_punct_lc||| 5.006000
is_uni_punct||| 5.006000
is_uni_space_lc||| 5.006000
is_uni_space||| 5.006000

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mPUSHu|5.009002|p
mXPUSHi|5.009002|p
mXPUSHn|5.009002|p
mXPUSHp|5.009002|p
mad_free||
madlex||
madparse||
magic_clear_all_env||
magic_clearenv||
magic_clearhint||
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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 "$f ", ":", format_version($API{$f}{todo}), "n";
  }
  exit 0;
}

# Scan for possible replacement candidates

my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n
}
undef $define;
}
}
$define = [$1, $2] if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};
if ($function) {
if (/^}/) {
if (exists $API{$function->[0]}) {
my @n = find_api($function->[1]);
push @{$depends{$function->[0]}}, @n if @n
}

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undef $function;
}
else {
    $function->[1] = $_;  
}
}

$function = [$1, ""] if m/\*DPPP_\(my_(\w+)\)/;

$replace = $1 if m/\^s*$rccs$s+Replace:\s+(d+)\s+s+$rcces$s*$/$;
$replace{$_2} = $1 if $replace and m/\^s*$\#s*define\(\s+(w+)\)\(\(\(\w+)\)\)?\s+\(w+\)\)/;
$replace{$_2} = $1 if m/\^s*$\#s*define\(\s+(w+)\)\(\(\(\w+)\)\)?\s+\(w+\)\)/;
$replace{$_1} = $2 if m/\^s*$rccs$s+Replace \(w+\) with \(w+\)\s+s+$rcces$s*$/$;

if (m/\^s*$rccs$s+(w+(\s*,\s*w+\*)*)\s+depends\(\s+on\s+(w+(\s*,\s*w+\*)*)\)\s+$rcces$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\(\\(\s+\w+\)\)?\s+_GLOBAL\)/;

for (values %depends) {
    my %s;
    $_ = [sort grep !$s{$_}++, @$_];
}

if (exists $opt{'api-info'}) {
    my $f;
    my $count = 0;
    my $match = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "^$opt{'api-info'}$";
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $f =~ /$match/;
        print "=== $f ===

    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 "$hints{$_}" if exists $hints{$_};
print "$WARNING:\n$warnings{$_}" if exists $warnings{$_};
$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 $API{$_}{provided};
        my @flags;
        push @flags, 'explicit' if exists $need{$_};
        push @flags, 'depend'   if exists $depends{$_};
        push @flags, 'hint'     if exists $hints{$_};
        push @flags, 'warning'  if exists $warnings{$_};
        my $flags = @flags ? '[ '.join(', ', @flags).']' : "";
        print "$f\n$flags";
    }
    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;

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my $func;

for $func (keys %API) {
    my $match = $func;
    $match .= "|\b$revreplace{$func}\b" if exists $revreplace{$func};
    if ($c =~ /\b(?:Perl_)?\b$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}++;
            my @deps = rec_depend($func);
            if (@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 ($c =~ /\b$HS*\b$match\b/) { 
    defined $2 and push @ccom, $2;
    defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;

$file{com} = /@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /\b$HS*\binclude\b/;QSppport\b/;m;

my $func;
$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");

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$file{changes} += $changes;

}

$summary{functions}[] = $func;
}

if (not exists $file{uses}{'$func'}) {
    if (exists $file{needs}{'$func'}) {
        $file{changes} += ($c =~ s/^\s*$func\b\s*$\$/\$func\$/mg);
    } else {
        $file{changes} += ($c =~ s/^\s*$func\b\s*$\$/\$func\$/mg);
    }

} for $func (sort keys %{$file{uses_replace}}) {
    warning("Uses Perl_\$func instead of \$func");
    $file{changes} += ($c =~ s/{Perl_}\$func\s*\((\s*aTHX_?)\)?\s*}$func\$1\s*/g);

} for $func (sort keys %{$file{uses_provided}}) {
    if ($file{uses}{'$func'}) {
        if (exists $file{uses_deps}{'$func'}) {
            $file{changes} += ($c =~ s/^\s*$func\s*\((\s*aTHX_?)\)?\s*}$/\$func\$1\s*/g);
        } else {
            $file{changes} += ($c =~ s/^\s*$func\s*\((\s*aTHX_?)\)?\s*}$/\$func\$1\s*/g);
        }
    else {
        warning("Uses Perl_\$func instead of \$func");
        $file{changes} += ($c =~ s/{Perl_}\$func\s*\((\s*aTHX_?)\)?\s*}$/\$func\$1\s*/g);
    }

} $warnings += hint($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/^\s*$func\b\s*$\$/\$func\$/mg);
    }
for $func (sort keys %{$file{needed_global}}) {
  my $message = ""
  if (not exists $global{uses}{$func}) {
    $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
  } elsif (exists $file{needs}{$func}) {
    if ($file{needs}{$func} eq 'extern') {
      $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
    } elsif ($file{needs}{$func} eq 'static') {
      $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
    }
  }
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
  }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
  my $pp = ""
  for $func (sort keys %{$file{needs}}) {
    my $type = $file{needs}{$func};
    next if $type eq 'extern';
    my $suffix = $type eq 'global' ? '_GLOBAL' : "";
    unless (exists $file{needed_$type}{$func}) {
      if ($type eq 'global') {
        diag("Files @{$global{needs}{$func}} need $func, adding global request");
      } else {
        diag("File needs $func, adding static request");
      }
      $pp .= "#define NEED_${func}$suffix\n";
    }
  }
  if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
    $pp = "";
    $file{changes}++;
  }
  unless ($file{has_inc_ppport}) {
    diag("Needs to include '$ppport'");
  }
}
$pp .= qq(#include "$ppport"
)
}

if ($pp) {
 $file{changes} += ($c =~ s/^(?:$HS*?#$HS*define$HS+NEED_\w+.*?)/$1$pp/ms)
 || ($c =~ s/^(?:$HS*?#$HS*include.*\Q$ppport\E)/$pp/m)
 || ($c =~ s/^(?:$HS*?#$HS*include.*XSUB.$\w+.*?)/$1$pp/m)
 || ($c =~ s/^(?:$HS*?$/
$pp)/;
}
}
else {
 if ($file{has_inc_ppport}) {
   diag("No need to include "$ppport");
   $file{changes} += ($c =~ s/^(?:$HS*?#$HS*include.*\Q$ppport\E.*?)/$pp/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: $!");
}
else {
    mydiff(
        $opt{patch}, $filename, $c);
} else {
    $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>) {
        $diff .= $_;
        s/$tmp/$file.patched/;
    }
    close F;
    unlink $tmp;
    return $diff;
}

unlink $tmp;
} else {
    error("Cannot open '$tmp' for writing: $!;");
}

return undef;
}

sub rec_depend {
    my($func, $seen) = @_; return () unless exists $depends{$func};
    $seen = %{${seen}[{}]}; return () if $seen->{$func}++;
    my %s;
    grep !${$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}}; @{${depends{$func}}};
}

sub parse_version {
    my $ver = shift;

    if ($ver =~ /^(\d+).\(\d+\).\(\d+\)$/) { return ($1, $2, $3); }
    elsif ($ver !~ /^\d+\.[\d_]+$/) { die "cannot parse version '$ver''\n"; }

    $ver =~ s/_//g;
    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\(\d+\).(\d{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\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+\$/^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) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*)^=\w+\s+\s+ms$/;
  $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.
    if (eval \$Devel::PPPort::VERSION < \$VERSION) {
        die "$0 was originally generated with Devel::PPPort \$VERSION
        . "Your Devel::PPPort is only version \$Devel::PPPort::VERSION
        . "Please install a newer version, or --unstrip will not work.
    }
    Devel::PPPort::WriteFile($0);
    exit 0;
  }
  print <<END;
  Sorry, but this is a stripped version of \$0.
  To be able to use its original script and doc functionality,
  please try to regenerate this file using:
  \$^X \$0 --unstrip
END
  /ms;
  my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
  $c =~ s{/ (?: \*[^*]*\*+(?:[^$ccs]\[^*]*\*+)* / | \[\^\r
  | ( \[\^\r
    | \{ 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;
}

__DATA__
Found in path(s):
No license file was found, but licenses were detected in source scan.

=head1 NAME

perlfilter - Source Filters

=head1 DESCRIPTION

This article is about a little-known feature of Perl called I<source filters>. Source filters alter the program text of a module before Perl sees it, much as a C preprocessor alters the source text of a C program before the compiler sees it. This article tells you more about what source filters are, how they work, and how to write your own.

The original purpose of source filters was to let you encrypt your program source to prevent casual piracy. This isn't all they can do, as you'll soon learn. But first, the basics.

=head1 CONCEPTS

Before the Perl interpreter can execute a Perl script, it must first read it from a file into memory for parsing and compilation. If that script itself includes other scripts with a C<use> or C<require> statement, then each of those scripts will have to be read from their respective files as well.

Now think of each logical connection between the Perl parser and an individual file as an I<source stream>. A source stream is created when the Perl parser opens a file, it continues to exist as the source code is read into memory, and it is destroyed when Perl is finished parsing the file. If the parser encounters a C<require> or C<use> statement in a source stream, a new and distinct stream is created just for that file.

The diagram below represents a single source stream, with the flow of source from a Perl script file on the left into the Perl parser on the right. This is how Perl normally operates.

  file -------> parser

There are two important points to remember:
Although there can be any number of source streams in existence at any given time, only one will be active.

Every source stream is associated with only one file.

A source filter is a special kind of Perl module that intercepts and modifies a source stream before it reaches the parser. A source filter changes our diagram like this:

```
file ----> filter ----> parser
```

If that doesn't make much sense, consider the analogy of a command pipeline. Say you have a shell script stored in the compressed file `trial.gz`. The simple pipeline command below runs the script without needing to create a temporary file to hold the uncompressed file.

```
gunzip -c trial.gz | sh
```

In this case, the data flow from the pipeline can be represented as follows:

```
trial.gz ----> gunzip ----> sh
```

With source filters, you can store the text of your script compressed and use a source filter to uncompress it for Perl's parser:

```
compressed     gunzip
Perl program ---> source filter ---> parser
```

So how do you use a source filter in a Perl script? Above, I said that a source filter is just a special kind of module. Like all Perl modules, a source filter is invoked with a use statement.

Say you want to pass your Perl source through the C preprocessor before execution. As it happens, the source filters distribution comes with a C preprocessor filter module called Filter:cpp.

Below is an example program, `cpp_test`, which makes use of this filter. Line numbers have been added to allow specific lines to be referenced.
easily.

1: use Filter::cpp;
2: #define TRUE 1
3: $a = TRUE;
4: print "a = $a\n";

When you execute this script, Perl creates a source stream for the file. Before the parser processes any of the lines from the file, the source stream looks like this:

cpp_test ---------> parser

Line 1, C<use Filter::cpp>, includes and installs the C<cpp> filter module. All source filters work this way. The use statement is compiled and executed at compile time, before any more of the file is read, and it attaches the cpp filter to the source stream behind the scenes. Now the data flow looks like this:

cpp_test ----> cpp filter ----> parser

As the parser reads the second and subsequent lines from the source stream, it feeds those lines through the C<cpp> source filter before processing them. The C<cpp> filter simply passes each line through the real C preprocessor. The output from the C preprocessor is then inserted back into the source stream by the filter.

```
use Filter::cpp;
$a = 1;
print "a = $a\n";
```

The parser then sees the following code:

use Filter::cpp;
$a = 1;
print "a = $a\n";

Let's consider what happens when the filtered code includes another module with use:

1: use Filter::cpp;
2: #define TRUE 1
3: use Fred;
4: $a = TRUE;
5: print "a = $a\n";
The \texttt{cpp} filter does not apply to the text of the Fred module, only to the text of the file that used it (\texttt{cpp_test}). Although the use statement on line 3 will pass through the \texttt{cpp} filter, the module that gets included (\texttt{Fred}) will not. The source streams look like this after line 3 has been parsed and before line 4 is parsed:

\quad \texttt{cpp_test} \xrightarrow{\text{cpp filter}} \text{parser (INACTIVE)}

\quad \texttt{Fred.pm} \xrightarrow{\text{parser}}

As you can see, a new stream has been created for reading the source from \texttt{Fred.pm}. This stream will remain active until all of \texttt{Fred.pm} has been parsed. The source stream for \texttt{cpp_test} will still exist, but is inactive. Once the parser has finished reading \texttt{Fred.pm}, the source stream associated with it will be destroyed. The source stream for \texttt{cpp_test} then becomes active again and the parser reads line 4 and subsequent lines from \texttt{cpp_test}.

You can use more than one source filter on a single file. Similarly, you can reuse the same filter in as many files as you like.

For example, if you have a uuencoded and compressed source file, it is possible to stack a uudecode filter and an uncompression filter like this:

\begin{verbatim}
use Filter::uudecode; use Filter::uncompress;
\end{verbatim}

\begin{verbatim}
M'XL(.H<sUS4"V9I:F%L')Q;>7;/11_>_I3=+%L*1"T?22Q/
M6j9*<QCO*XFT*0[PL%+%Y+G?WN^ZYN-S1,[JE$,20?K=-_{1>}
\end{verbatim}

\begin{verbatim}
... 
\end{verbatim}

Once the first line has been processed, the flow will look like this:

\begin{verbatim}
file \xrightarrow{uudecode} \xrightarrow{uncompress} \xrightarrow{parser}
\end{verbatim}

\begin{verbatim}
filter filter
\end{verbatim}

Data flows through filters in the same order they appear in the source file. The uudecode filter appeared before the uncompress filter, so the source file will be uudecoded before it's uncompressed.

=head1 WRITING A SOURCE FILTER

There are three ways to write your own source filter. You can write it in C, use an external program as a filter, or write the filter in Perl. I won't cover the first two in any great detail, so I'll get them out of the way first. Writing the filter in Perl is most convenient, so I'll devote the most space to it.

=head1 WRITING A SOURCE FILTER IN C
The first of the three available techniques is to write the filter completely in C. The external module you create interfaces directly with the source filter hooks provided by Perl.

The advantage of this technique is that you have complete control over the implementation of your filter. The big disadvantage is the increased complexity required to write the filter - not only do you need to understand the source filter hooks, but you also need a reasonable knowledge of Perl guts. One of the few times it is worth going to this trouble is when writing a source scrambler. The C<decrypt> filter (which unscrambles the source before Perl parses it) included with the source filter distribution is an example of a C source filter (see Decryption Filters, below).

=item B<Decryption Filters>

All decryption filters work on the principle of "security through obscurity." Regardless of how well you write a decryption filter and how strong your encryption algorithm is, anyone determined enough can retrieve the original source code. The reason is quite simple - once the decryption filter has decrypted the source back to its original form, fragments of it will be stored in the computer's memory as Perl parses it. The source might only be in memory for a short period of time, but anyone possessing a debugger, skill, and lots of patience can eventually reconstruct your program.

That said, there are a number of steps that can be taken to make life difficult for the potential cracker. The most important: Write your decryption filter in C and statically link the decryption module into the Perl binary. For further tips to make life difficult for the potential cracker, see the file I<decrypt.pm> in the source filters distribution.

=head1 CREATING A SOURCE FILTER AS A SEPARATE EXECUTABLE

An alternative to writing the filter in C is to create a separate executable in the language of your choice. The separate executable reads from standard input, does whatever processing is necessary, and writes the filtered data to standard output. C<Filter::cpp> is an example of a source filter implemented as a separate executable - the executable is the C preprocessor bundled with your C compiler.
The source filter distribution includes two modules that simplify this task: \texttt{C<Filter::exec> } and \texttt{C<Filter::sh>}. Both allow you to run any external executable. Both use a coprocess to control the flow of data into and out of the external executable. (For details on coprocesses, see Stephens, W.R., "Advanced Programming in the UNIX Environment." Addison-Wesley, ISBN 0-210-56317-7, pages 441-445.) The difference between them is that \texttt{C<Filter::exec>} spawns the external command directly, while \texttt{C<Filter::sh>} spawns a shell to execute the external command. (Unix uses the Bourne shell; NT uses the cmd shell.) Spawning a shell allows you to make use of the shell metacharacters and redirection facilities.

Here is an example script that uses \texttt{C<Filter::sh>}:

\begin{verbatim}
use Filter::sh 'tr XYZ PQR';
$a = 1;
print "XYZ a = $a\n";
\end{verbatim}

The output you'll get when the script is executed:

\begin{verbatim}
PQR a = 1
\end{verbatim}

Writing a source filter as a separate executable works fine, but a small performance penalty is incurred. For example, if you execute the small example above, a separate subprocess will be created to run the Unix \texttt{C<tr>} command. Each use of the filter requires its own subprocess. If creating subprocesses is expensive on your system, you might want to consider one of the other options for creating source filters.

=head1 WRITING A SOURCE FILTER IN PERL

The easiest and most portable option available for creating your own source filter is to write it completely in Perl. To distinguish this from the previous two techniques, I'll call it a Perl source filter.

To help understand how to write a Perl source filter we need an example to study. Here is a complete source filter that performs rot13 decoding. (Rot13 is a very simple encryption scheme used in Usenet postings to hide the contents of offensive posts. It moves every letter forward thirteen places, so that A becomes N, B becomes O, and Z becomes M.)

\begin{verbatim}
package Rot13;

use Filter::Util::Call;

sub import {

\end{verbatim}
my ($type) = @_;
my ($ref) = [];
filter_add(bless $ref);
}
sub filter {
my ($self) = @_;
my ($status);
tr/n-za-mN-ZA-M/a-zA-Z/
if ($status = filter_read()) > 0;
$status;
}
1;
All Perl source filters are implemented as Perl classes and have the
same basic structure as the example above.
First, we include the C<Filter::Util::Call> module, which exports a
number of functions into your filter's namespace. The filter shown
above uses two of these functions, C<filter_add()> and
C<filter_read()>.
Next, we create the filter object and associate it with the source
stream by defining the C<import> function. If you know Perl well
enough, you know that C<import> is called automatically every time a
module is included with a use statement. This makes C<import> the ideal
place to both create and install a filter object.
In the example filter, the object (C<$ref>) is blessed just like any
other Perl object. Our example uses an anonymous array, but this isn't
a requirement. Because this example doesn't need to store any context
information, we could have used a scalar or hash reference just as
well. The next section demonstrates context data.
The association between the filter object and the source stream is made
with the C<filter_add()> function. This takes a filter object as a
parameter (C<$ref> in this case) and installs it in the source stream.
Finally, there is the code that actually does the filtering. For this
type of Perl source filter, all the filtering is done in a method
called C<filter()>. (It is also possible to write a Perl source filter
using a closure. See the C<Filter::Util::Call> manual page for more
details.) It's called every time the Perl parser needs another line of
source to process. The C<filter()> method, in turn, reads lines from
the source stream using the C<filter_read()> function.

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If a line was available from the source stream, C<filter_read()> returns a status value greater than zero and appends the line to C<$_>. A status value of zero indicates end-of-file, less than zero means an error. The filter function itself is expected to return its status in the same way, and put the filtered line it wants written to the source stream in C<$_>. The use of C<$_> accounts for the brevity of most Perl source filters.

In order to make use of the rot13 filter we need some way of encoding the source file in rot13 format. The script below, C<mkrot13>, does just that.

die "usage mkrot13 filename\n" unless @ARGV;
my $in = $ARGV[0];
my $out = "$in.tmp";
open(IN, "<$in") or die "Cannot open file $in: $!\n";
open(OUT, ">$out") or die "Cannot open file $out: $!\n";

print OUT "use Rot13;\n";
while (<IN>) {
    tr/a-zA-Z/n-za-mN-ZA-M/;
    print OUT;
}
close IN;
close OUT;
unlink $in;
rename $out, $in;

If we encrypt this with C<mkrot13>:

    print " hello fred \n";

the result will be this:

    use Rot13;
    cevag "uryyb serq\a";

Running it produces this output:

    hello fred

=head1 USING CONTEXT: THE DEBUG FILTER

The rot13 example was a trivial example. Here's another demonstration that shows off a few more features.

Say you wanted to include a lot of debugging code in your Perl script
during development, but you didn’t want it available in the released product. Source filters offer a solution. In order to keep the example simple, let’s say you wanted the debugging output to be controlled by an environment variable, C<DEBUG>. Debugging code is enabled if the variable exists, otherwise it is disabled.

Two special marker lines will bracket debugging code, like this:

```perl
## DEBUG_BEGIN
if ($year > 1999) {
    warn "Debug: millennium bug in year $year\n";
}
## DEBUG_END
```

The filter ensures that Perl parses the code between the C<DEBUG_BEGIN> and C<DEBUG_END> markers only when the C<DEBUG> environment variable exists. That means that when C<DEBUG> does exist, the code above should be passed through the filter unchanged. The marker lines can also be passed through as-is, because the Perl parser will see them as comment lines. When C<DEBUG> isn’t set, we need a way to disable the debug code. A simple way to achieve that is to convert the lines between the two markers into comments:

```perl
## DEBUG_BEGIN
#if ($year > 1999) {
    # warn "Debug: millennium bug in year $year\n";
    #}
## DEBUG_END
```

Here is the complete Debug filter:

```perl
package Debug;

use strict;
use warnings;
use Filter::Util::Call;

use constant TRUE => 1;
use constant FALSE => 0;

sub import {
    my ($type) = @_; 
    my (%context) = (
        Enabled => defined $ENV{DEBUG},
        InTraceBlock => FALSE,
        Filename => (caller)[1],
        LineNo => 0,
        LastBegin => 0,
    )

    return $type;
}
```

The big difference between this filter and the previous example is the use of context data in the filter object. The filter object is based on a hash reference, and is used to keep various pieces of context information between calls to the filter function. All but two of the
hash fields are used for error reporting. The first of those two,
Enabled, is used by the filter to determine whether the debugging code
should be given to the Perl parser. The second, InTraceBlock, is true
when the filter has encountered a C<DEBUG_BEGIN> line, but has not yet
encountered the following C<DEBUG_END> line.
If you ignore all the error checking that most of the code does, the
essence of the filter is as follows:
sub filter {
my ($self) = @_;
my ($status);
$status = filter_read();
# deal with EOF/error first
return $status if $status <= 0;
if ($self->{InTraceBlock}) {
if (/^\s*##\s*DEBUG_END/) {
$self->{InTraceBlock} = FALSE
}
# comment out debug lines when the filter is disabled
s/^/#/ if ! $self->{Enabled};
} elsif ( /^\s*##\s*DEBUG_BEGIN/ ) {
$self->{InTraceBlock} = TRUE;
}
return $status;
}
Be warned: just as the C-preprocessor doesn't know C, the Debug filter
doesn't know Perl. It can be fooled quite easily:
print <<EOM;
##DEBUG_BEGIN
EOM
Such things aside, you can see that a lot can be achieved with a modest
amount of code.
=head1 CONCLUSION
You now have better understanding of what a source filter is, and you
might even have a possible use for them. If you feel like playing with
source filters but need a bit of inspiration, here are some extra
features you could add to the Debug filter.
First, an easy one. Rather than having debugging code that is
all-or-nothing, it would be much more useful to be able to control

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which specific blocks of debugging code get included. Try extending the syntax for debug blocks to allow each to be identified. The contents of the C<DEBUG> environment variable can then be used to control which blocks get included.

Once you can identify individual blocks, try allowing them to be nested. That isn't difficult either.

Here is an interesting idea that doesn't involve the Debug filter. Currently Perl subroutines have fairly limited support for formal parameter lists. You can specify the number of parameters and their type, but you still have to manually take them out of the C<@_> array yourself. Write a source filter that allows you to have a named parameter list. Such a filter would turn this:

```perl
sub MySub ($first, $second, @rest) { ... }
```

into this:

```perl
sub MySub($@) {
    my ($first) = shift;
    my ($second) = shift;
    my (@rest) = @_;
    ...
}
```

Finally, if you feel like a real challenge, have a go at writing a full-blown Perl macro preprocessor as a source filter. Borrow the useful features from the C preprocessor and any other macro processors you know. The tricky bit will be choosing how much knowledge of Perl's syntax you want your filter to have.

=head1 LIMITATIONS

Source filters only work on the string level, thus are highly limited in its ability to change source code on the fly. It cannot detect comments, quoted strings, heredocs, it is no replacement for a real parser.

The only stable usage for source filters are encryption, compression, or the byteloader, to translate binary code back to source code.

See for example the limitations in L<Switch>, which uses source filters, and thus is does not work inside a string eval, the presence of regexes with embedded newlines that are specified with raw C<\.../> delimiters and don't have a modifier C</x> are indistinguishable from code chunks beginning with the division operator C</>. As a workaround you must use C<m/.../> or C<m?...?> for such patterns. Also, the presence of regexes specified with raw C<.../> delimiters may cause mysterious
errors. The workaround is to use `C<m?...?>` instead. See
L<http://search.cpan.org/perldoc?Switch#LIMITATIONS>

Currently the content of the `C<__DATA__>` block is not filtered.

Currently internal buffer lengths are limited to 32-bit only.

=head1 THINGS TO LOOK OUT FOR

=over 5

=item Some Filters Clobber the `C<DATA>` Handle

Some source filters use the `C<DATA>` handle to read the calling program. When using these source filters you cannot rely on this handle, nor expect any particular kind of behavior when operating on it. Filters based on Filter::Util::Call (and therefore Filter::Simple) do not alter the `C<DATA>` filehandle, but on the other hand totally ignore the text after `C<__DATA__>`.

=back

=head1 REQUIREMENTS

The Source Filters distribution is available on CPAN, in

CPAN/modules/by-module/Filter

Starting from Perl 5.8 Filter::Util::Call (the core part of the Source Filters distribution) is part of the standard Perl distribution. Also included is a friendlier interface called Filter::Simple, by Damian Conway.

=head1 AUTHOR

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Reini Urban E<lt>rurban@cpan.orgE<gt>

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maO255bu/Filter-1.58.tar.gz-cosi-expand-archive-pPT6Mkoe/Filter-1.58/perlfilter.pod

No license file was found, but licenses were detected in source scan.

---
abstract: 'Source Filters'
author:
  - Paul Marquess <pmqs@cpan.org>
buildRequires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.3, 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: Filter
no_index:
directory:
  - t
  - inc
recommends:
  Class::XSAccessor: '0'
  Filter::Simple: '0.88'
  Filter::Simple::Compile: '0.02'
  List::MoreUtils: '0'
  Perl::MinimumVersion: '0'
  Pod::Spell::CommonMistakes: '0'
  Test::CPAN::Meta: '0'
  Test::Kwalitee: '0'
  Test::More: '0.88'
  Test::Pod: '1.00'
  Text::CSV_XS: '0'
resources:
  license: http://dev.perl.org/licenses/
  repository: https://github.com/rurban/Filter
  version: '1.58'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
  */opt/cola/permits/1139282490_1614507553.97/0/perl-Filter-1.58-2.el8-1.src.rpm-cosi-expand-archive-
amO255bu/Filter-1.58.tar.gz-cosi-expand-archive-pPT6Mkoe/Filter-1.58/META.yml

No license file was found, but licenses were detected in source scan.

Source Filters

Version 1.58
DESCRIPTION

This distribution consists of a number of Source Filters.

For more details see the pod documentation embedded in the .pm files.

If you intend using the Filter::Util::Call functionality, I would strongly recommend that you check out Damian Conway's excellent Filter::Simple module. Damian's module provides a much cleaner interface than Filter::Util::Call. Although it doesn't allow the fine control that Filter::Util::Call does, it should be adequate for the majority of applications. It's available at

http://search.cpan.org/dist/Filter-Simple/

LIMITATIONS

Source filters only work on the string level, thus are highly limited in its ability to change source code on the fly. It cannot detect comments, quoted strings, heredocs, it is no replacement for a real parser.

The only stable usage for source filters are encryption, compression, or the byteloader, to translate binary code back to source code.

See for example the limitations in Switch, which uses source filters, and thus is does not work inside a string eval, the presence of regexes with embedded newlines that are specified with raw /.../ delimiters and don't have a modifier //x are indistinguishable from code chunks beginning with the division operator /. As a workaround you must use m/.../ or m?...? for such patterns. Also, the presence of regexes specified with raw ?...? delimiters may cause mysterious errors. The workaround is to use m?...? instead. See

http://search.cpan.org/perldoc?Switch#LIMITATIONS

Currently internal buffer lengths are limited to 32-bit only.
PREREQUISITES
-------------

Before you can build the Source Filters you need to have the following installed on your system:

* Perl 5.6.0 or better

For older Perls use older versions of Filter.

BUILDING THE MODULES
---------------------

Assuming you have met all the prerequisites, building the modules should be relatively straightforward.

The modules can now be built using this sequence of commands:

    perl Makefile.PL
    make
    make test

The filters have been successfully built and tested on the following systems (at least):

linux (gcc or clang)
cygwin 1.7
mingw strawberry 5.14
SunOS 4.1.3 (Sun C compiler & gcc 2.7.2.3)
Solaris 2.3 (Sun C Compiler)
irix 5.3
irix 6.x
Windows XP (Visual C++ 6.0)

On Windows tr.exe and cpp.exe should be really the gnu/mingw tools in the path for the testsuite to pass successfully.

INSTALLATION
------------

    make install

Found in path(s):
* /opt/cola/permissions/1139282490_1614507553.97/0/perl-Filter-1.58-2.el8-1.src.rpm-cosi-expand-archive-
  maO255bu/Filter-1.58.tar.gz-cosi-expand-archive-pPT6Mkoe/Filter-1.58/README
No license file was found, but licenses were detected in source scan.

/*
 * Filename : Call.xs
 * Author : Paul Marquess
 * Date : 2014-12-09 02:48:44 rurban
 * Version : 1.58
 *
 * Copyright (c) 1995-2011 Paul Marquess. All rights reserved.
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 * modify it under the same terms as Perl itself.
 *
 */

Found in path(s):
* /opt/cola/permits/1139282490_1614507553.97/0/perl-Filter-1.58-2.el8-1.src.rpm-cosi-expand-archive-maO255bu/Filter-1.58.tar.gz-cosi-expand-archive-pPT6Mkoe/Filter-1.58/Call/Call.xs
No license file was found, but licenses were detected in source scan.

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# This program is free software; you can redistribute it and/or
# modify it under the same terms as Perl itself.

Found in path(s):
* /opt/cola/permits/1139282490_1614507553.97/0/perl-Filter-1.58-2.el8-1.src.rpm-cosi-expand-archive-maO255bu/Filter-1.58.tar.gz-cosi-expand-archive-pPT6Mkoe/Filter-1.58/Call/Call.pm

1.3072 golangci-goconst v0.0.0-20180610141641-041c5f2b40f3

1.3072.1 Available under license :

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Version 3, 29 June 2007

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1.3074 protobuf v1.23.0

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1.3075 jcmtturner-gokrb v7.2.3

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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

lib/gss_mechs/mech_spnego/mech/spnego_mech.c

lib/krb5/kadm5/kadm_host_srv_names.c

lib/krb5/kdb/kdb_convert.c

lib/krb5/kdb/kdb_hdr.h

lib/krb5/kdb/kdb_log.c

lib/krb5/kdb/kdb_log.h

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
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
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kprolog.c

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1.3085 perl 1.11-416.el8
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Julian Seward, jsward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

--------------------------------------------------------------------------
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the 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
license: http://dev.perl.org/licenses/
repository: http://github.com/dagolden/module-build/
version: 3

---

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The End
#!perl

=head1 NAME
copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so # that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = "
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*\(\d{4,}\)/s
    or die "Year not found in README copyright message '$copyright_msg'";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b\(\d{4,}\)/i
    or die "Copyright statement not found in perl -v output '$output'";

    $year;
}
1.3086.1 Available under license:

No license file was found, but licenses were detected in source scan.

=head1 NAME

List::Util::XS - Indicate if List::Util was compiled with a C compiler

=head1 SYNOPSIS

use List::Util::XS 1.20;

=head1 DESCRIPTION

C<List::Util::XS> can be used as a dependency to ensure List::Util was installed using a C compiler and that the XS version is installed.

During installation C<$List::Util::XS::VERSION> will be set to C<undef> if the XS was not compiled.

Starting with release 1.23_03, Scalar-List-Util is B<always> using the XS implementation, but for backwards compatibility, we still ship the C<List::Util::XS> module which just loads C<List::Util>.

=head1 SEE ALSO

L<Scalar::Util>, L<List::Util>, L<List::MoreUtils>

=head1 COPYRIGHT

Copyright (c) 2008 Graham Barr <gbarr@pobox.com>. All rights reserved.
This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=cut

Found in path(s):
No license file was found, but licenses were detected in source scan.

# Copyright (c) 1997-2009 Graham Barr <gbarr@pobox.com>. All rights reserved.
# This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.
=head1 KNOWN BUGS

=head2 RT #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:

```perl
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;

say for uniqnum( $x, $y );

Will print just the value of $x, believing that $y is a numerically-equivalent value. This bug does not affect 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

sub true { scalar grep { $_ } @_ }

# How many elements are false

sub false { scalar grep { !$_ } @_ }

=head1 SEE ALSO

L<Scalar::Util>, L<List::MoreUtils>

=head1 COPYRIGHT

Copyright (c) 1997-2007 Graham Barr <gbarr@pobox.com>. All rights reserved. This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

Recent additions and current maintenance by
Paul Evans, <leonerd@leonerd.org.uk>.

=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 (c) 1997-2000 Graham Barr <gbarr@pobox.com>. All rights reserved.
* This program is free software; you can redistribute it and/or
* modify it under the same terms as Perl itself.
*/

No license file was found, but licenses were detected in source scan.

/*
----------------------------------------------------------------------
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 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 --nodiaq

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.
Strip all script and documentation functionality from `ppport.h`. This reduces the size of `ppport.h` dramatically and may be useful if you want to include `ppport.h` in smaller modules without increasing their distribution size too much.

The stripped `ppport.h` will have a `--unstrip` option that allows you to undo the stripping, but only if an appropriate `Devel::PPPort` module is installed.

Lists the API elements for which compatibility is provided by `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 `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.

=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>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_radixLOBAL</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_moduleLOBAL</td>
</tr>
<tr>
<td>my_snprintf()</td>
<td>NEED_my_snprintf</td>
<td>NEED_my_snprintfLOBAL</td>
</tr>
<tr>
<td>my_sprintf()</td>
<td>NEED_my_sprintf</td>
<td>NEED_my_sprintfLOBAL</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
perl ppport.h
```

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.
If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

    perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions for changes, use:

    perl ppport.h --nochanges

You can specify a different C<diff> program or options, using the C<--diff> option:

    perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

    perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function, use:

    perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use

    perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

    perl ppport.h --api-info=/\.

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of
C<Devel::PPPort> and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4
=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2010, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.
use strict;

# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.19_02;

my %opt = (
  quiet => 0,
  diag  => 1,
  hints => 1,
  changes => 1,
  cplusplus => 0,
  filter => 1,
  strip => 0,
  version => 0,
);

my($ppport) = $0 =~ /\[\w.]+$/;
my $LF = '(?:\r\n|\n\r\n)'; # line feed
my $HS = "[ \t]";            # horizontal whitespace

# Never use C comments in this file!
my $ccs = '/\*\*';
my $cce = '\*\*/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval { require Getopt::Long;
  Getopt::Long::GetOptions(%opt, qw(
    help quiet diag! filter! hints! changes! cplusplus strip version
    patch=s copy=s diff=s compat-version=s
    list-provided list-unsupported api-info=s
  )) or usage();
};

if ($@ and grep /^-/, @ARGV) {
  usage() if "$ARGV" =~ /--?h(?:elp)?$/;
  die "Getopt::Long not found. Please don't use any options.
"
}

if ($opt{version}) {
  print "This is $0 $VERSION\n";
  exit 0;
}
usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{compat-version}) {
    my($r,$v,$s) = eval { parse_version($opt{compat-version}) };
    if ($@) {
        die "Invalid version number format: \n;"
    } else {
        die "Only Perl 5 is supported
    } else {
        $opt{compat-version} = 5;
    }

    my %API = map { /^(\w+)|([^|]*)([^|]*)([^|]*)$/?
        ($1 => {
            ($2                  ? ( base => $2 ) : ()),
            ($3                  ? ( todo => $3 ) : ()),
            ($4, 'v') >= 0 ? ( varargs => 1 ) : (),
            ($4, 'p') >= 0 ? ( provided => 1 ) : (),
            ($4, 'n') >= 0 ? ( nothxarg => 1 ) : ()
        })
        : die "invalid spec: $_" } qw(
AvFILLp|5.004050|p
AvFILL||
CLASS||n
CPERLscope|5.005000|p
CX_CURPAD_SAVE||
CX_CURPAD_SV||
CopFILEAV|5.006000|p
CopFILEGV_set|5.006000|p
CopFILEGV|5.006000|p
CopFILE_set|5.006000|p
CopFILE|5.006000|p
CopSTASHPV_set|5.006000|p
CopSTASHPV|5.006000|p
CopSTASH_eq|5.006000|p
CopSTASH_set|5.006000|p
CopSTASH|5.006000|p
CopyD|5.009002|p
Copy||
CvPADLIST||
CvSTASH||
CvWEAKOUTSIDE||
DEFSV_set|5.010001|p

Open Source Used In APIC-SE-BATMAN 2.1.1d 39666
DEFSV|5.004050||p
END_EXTERN_C|5.005000||p
ENTER|||
ERRSV|5.004050||p
EXTEND|||
EXTERN_C|5.005000||p
F0convert|||n
FREETMPS|||
GIMME_V|5.004000|n
GIMME|||n
GROK_NUMERIC_RADIX|5.007002||p
G_ARRAY||
G_DISCARD|||
G_EVAL|||
G_METHOD|5.006001||p
G_NOARGS|||
G_SCALAR|||
G_VOID|5.004000|
GetVars|||
GvSVn|5.009003||p
GvSV|||
Gv_AMupdate|5.011000|
HEI_SVKEY|5.004000|
HeHASH|5.004000|
HeKEY|5.004000|
HeKLEN|5.004000|
HePV|5.004000|
HeSVKEY_force|5.004000|
HeSVKEY_set|5.004000|
HeSVKEY|5.004000|
HeUTF8|5.010001|
HeVAL|5.004000|
HvNAMELEN_get|5.009003||p
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_NOT_INT|5.007002||p
IVSIZE|5.006000||p
IVTYPE|5.006000||p
PERL_INT_MAX | 5.004000
PERL_INT_MIN | 5.004000
PERL_LONG_MAX | 5.004000
PERL_LONG_MIN | 5.004000
PERL_MAGIC_arylen | 5.007002
PERL_MAGIC_backref | 5.007002
PERL_MAGIC_bml | 5.007002
PERL_MAGIC_collxfrm | 5.007002
PERL_MAGIC_dbfile | 5.007002
PERL_MAGIC_dbline | 5.007002
PERL_MAGIC_defelem | 5.007002
PERL_MAGIC_envelem | 5.007002
PERL_MAGIC_env | 5.007002
PERL_MAGIC_ext | 5.007002
PERL_MAGIC_fm | 5.007002
PERL_MAGIC_glob | 5.011004
PERL_MAGIC_isaelem | 5.007002
PERL_MAGIC_isa | 5.007002
PERL_MAGIC_mutex | 5.011004
PERL_MAGIC_nkeys | 5.007002
PERL_MAGIC_overload_elem | 5.007002
PERL_MAGIC_overload_table | 5.007002
PERL_MAGIC_overload | 5.007002
PERL_MAGIC_pos | 5.007002
PERL_MAGIC_qr | 5.007002
PERL_MAGIC_regdata | 5.007002
PERL_MAGIC_regdatum | 5.007002
PERL_MAGIC_regex_global | 5.007002
PERL_MAGIC_shared_scalar | 5.007003
PERL_MAGIC_shared | 5.007003
PERL_MAGIC_sigelem | 5.007002
PERL_MAGIC_sig | 5.007002
PERL_MAGIC_substr | 5.007002
PERL_MAGIC_sv | 5.007002
PERL_MAGIC_taint | 5.007002
PERL_MAGIC_tiedelem | 5.007002
PERL_MAGIC_tiedscalar | 5.007002
PERL_MAGIC_tied | 5.007002
PERL_MAGIC_utf8 | 5.008001
PERL_MAGIC_uvar_elem | 5.007003
PERL_MAGIC_uvar | 5.007002
PERL_MAGIC_vec | 5.007002
PERL_MAGIC_vstring | 5.008001
PERL_PV_ESCAPE_ALL | 5.009004
PERL_PV_ESCAPE_FIRSTCHAR | 5.009004
PERL_PV_ESCAPE_NOBACKSLASH | 5.009004
PERL_PV_ESCAPE_NOCLEAR | 5.009004
PERL_PV_ESCAPE_QUOTE | 5.009004
PL_curcop|5.004050||p
PL_curstash|5.004050||p
PL_debstash|5.004050||p
PL_defgv|5.004050||p
PL_diehook|5.004050||p
PL_dirty|5.004050||p
PL_dowarn|||pn
PL_errgv|5.004050||p
PL_error_count|5.011004||p
PL_expect|5.011004||p
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PL_hints|5.005000||p
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sv_nv
svpeek
sv_pos_b2u_midway
sv_pos_b2u
sv_pos_u2bCached
sv_pos_u2b_flags
sv_pos_u2b_forwards
if (exists $opt{'list-unsupported'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};
    }

    if (exists $opt{'list-unsupported'}) {
        my $f;
        for $f (sort { lc $a cmp lc $b } keys %API) {
            next unless $API{$f}{todo};
        }
    }
print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
}
exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($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;
}
}

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$define = [S1, S2] if m{\^s*#s*define\$+(\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 = [S1, _] if m{^DPPP_(my_((\w+))};

$replace     = S1 if m{\^s*$rccs\$s+Replace:\$+(\d+)/s+$rcce\$s*$};
$replace{S2} = S1 if $replace and m{\^s*#s*define\$+(\w+)\$};
$replace{S2} = S1 if m{\^s*$rccs\$s+Replace \$+(\w+)\$s+$rcce\$s*$};
$replace{S1} = S2 if m{\^s*$rccs\$s+Replace \$+(\w+)\$s+$rcce\$s*$};

if (m{\^s*$rccs\$s+depends\$+(\w+)(?:s+)+(\w+)\$s+$rcce\$s*$}) {
  my @deps = map { s/s+/\$; S_ } split \$, $3;
  my $d;
  for $d (map { s/s+/\$; S_ } split \$, $1) {
    push @{$depends{$d}}, @deps;
  }
}

$need{S1} = 1 if m{\^#if\$s+defined\$(!defined(\w+)(?:_GLOBAL)?)$};

for (values %depends) {
  my %s;
  $s_ = {sort grep !$s{$s_}++, @$s_};
}

if (exists $opt{api-info}) {
  my $f;
  my $count = 0;
  my $match = $opt{api-info} =~ m!^/(.*)/$! ? $1 : "$opt{api-info}$";
  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 "\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) {
            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 ...");

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my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;
my $func;
for $func (keys %API) {
my $match = $func;
$match .= "|$revreplace{$func}" if exists $revreplace{$func};
if ($c =~ /\b(?:Perl_)?($match)\b/) {
$file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
$file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
if (exists $API{$func}{provided}) {
$file{uses_provided}{$func}++;
if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
$file{uses}{$func}++;
my @deps = rec_depend($func);
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'}) {

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if ($c =~ /\b$func\b/) {
$file{uses_todo}{$func}++;
}
}
}
}
while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");
my %file = %{$files{$filename}};
my $func;
my $c = $file{code};

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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_\?)\(?!aTHX_\?)(?aTHX_\?)(?!aTHX_\?)\)$\s*\(\s*}}{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_' ) . $2 }ge);
      if ($changes) {
        warning("Doesn't pass interpreter argument aTHX to Perl_$func");
        $file{changes} += $changes;
      }
    }
  } else {
    warning("Uses Perl_$func instead of $func");
    $file{changes} += ($c =~ s{\bPerl_$func\(\s*\(\s*aTHX_\?)\(\s*}}{$func$1(}g);
  }
}

for $func (sort keys %{$file{uses_replace}}) {
  warning("Uses $func instead of $replace{$func}");
  $file{changes} += ($c =~ s{\b$func\b}/$replace{$func}/g);
}

for $func (sort keys %{$file{uses_provided}}) {
  if ($file{uses} {$func}) {
    if (exists $file{uses_deps} {$func}) {
      diag("Uses $func, which depends on ", join(’, ‘, @{$file{uses_deps} {$func}}));
    } else {
      diag("Uses $func");
    }
  } else {
    warning("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}) {
        if ($file{needs}{$func} eq 'extern') {
            $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
        }
elseif ($file{needs}{$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 = "t",
    $file{changes}++;
}

unless ($file{has_inc_ppport}) {
    diag("Needs to include 'Sppport'\n'\n    $pp = qq(#include "$ppport"
    )
    
}

if ($pp) {
    $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*?)/$1$pp/m)
        || ($c =~ s/^($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 'Sppport'\n'\n        $file{changes} += ($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 $tmp |") {
        while (<F>) {
            s/$tmp/$file.patched/;
            $diff .= $_;
        }
        close F;
        unlink $tmp;
        return $diff;
    }
    else {
        error("Cannot open '$tmp' for writing: $!");  
    }
}

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{$func}};
    return (@$depends{$func})
}

sub parse_version
{
    my $ver = shift;

    if ($ver =~ /^\d+\.(\d+).\d+$/) {
        return ($1, $2, $3);
    }
    elsif ($ver !~ /^(\d+\.(\d+).\d+)/$) { 
        die "cannot parse version '$ver'
    }

$ver =~ s/_//g;
$ver =~ s/$/000000/;

my($r,$v,$s) = $ver =~ /(\d+).(\d{3})(\d{3})/;

$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "cannot parse version \$ver\n";
    }
}

return ($r, $v, $s);

sub format_version
{
    my $ver = shift;

    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /(\d+).(\d{3})(\d{3})/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "invalid version \$ver\n";
        }
        $s /= 10;
    }

    $ver = sprintf "%d.%03d", $r, $v;
    $s > 0 and $ver .= sprintf "_%02d", $s;

    return $ver;
}

return sprintf "%d.%d.%d", $r, $v, $s;

sub info
{
    $opt{quiet} and return;
    print @_, "\n";
}
}
sub diag
{
$opt{quiet} and return;
$opt{diag} and print @_, "\n";
}
sub warning
{
$opt{quiet} and return;
print "*** ", @_, "\n";
}
sub error
{
print "*** ERROR: ", @_, "\n";
}
my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
my $warn = $warnings{$func};
$warn =~ s!^!*** !mg;
print "*** WARNING: $func\n", $warn;
$rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;
print <<ENDUSAGE;

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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+Do NOT edit.*?(?=\^\=\$copy)/gms;
    $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

/ms;
my($pl, $c) = $self =~ /\(^\^\_DATA__\=\(\.*\)/ms;
$c =~ s{
    / (?:\^[^\*]*\*+(?:[^$ccs]\^[^\*]*\*+)* / | /\[^
\]*
}| defined $2 ? '' : ($1 \| '' ) }gsex;
$c =~ s!\s+$!!mg;
$c =~ s!^$LF!!mg;
$c =~ s!^\s*#\s*!#!mg;

/-^A/V/s!11/;
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=head1 NAME

Scalar::Util - A selection of general-utility scalar subroutines

=head1 SYNOPSIS

use Scalar::Util qw(blessed dualvar isdual readonly refaddr reftype
tainted weaken isweak isvstring looks_like_number
set_prototype);
  # and other useful utils appearing below

=head1 DESCRIPTION

C<Scalar::Util> contains a selection of subroutines that people have expressed
would be nice to have in the perl core, but the usage would not really be high
enough to warrant the use of a keyword, and the size would be so small that
being individual extensions would be wasteful.

By default C<Scalar::Util> does not export any subroutines.

=cut

=head1 FUNCTIONS FOR REFERENCES

The following functions all perform some useful activity on reference values.

=head2 blessed

|c =~ s!\s+!!mg;

open OUT, ">$0" or die "cannot strip $0: $!

print OUT "$pl$c

exit 0;

__DATA__
*/

Found in path(s):
  * /opt/ws_local/PERMITS_SQL/1009548127_1591903205.0/0/perl-Scalar-List-Utils-1.49-2.el8.src.rpm-cosi-
    expand-archive-yRiYhbUa/Scalar-List-Utils-1.49.tar.gz-cosi-expand-archive-J35iwRNQ/Scalar-List-Utils-
    1.49/ppport.h

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my $pkg = blessed($ref);

If C<$ref> is a blessed reference, the name of the package that it is blessed into is returned. Otherwise C<undef> is returned.

$scalar = "foo";
$class = blessed $scalar;       # undef

$ref = [];
$class = blessed $ref;         # undef

$obj = bless [], "Foo";
$class = blessed $obj;          # "Foo"

Take care when using this function simply as a truth test (such as in C<if(blessed $ref)...>) because the package name C<"0"> is defined yet false.

=head2 refaddr

my $addr = refaddr($ref);

If C<$ref> is reference, the internal memory address of the referenced value is returned as a plain integer. Otherwise C<undef> is returned.

$addr = refaddr "string";   # undef
$addr = refaddr $var;       # eg 12345678
$addr = refaddr [];         # eg 23456784

$obj = bless [], "Foo";
$addr = refaddr $obj;        # eg 88123488

=head2 reftype

my $type = reftype($ref);

If C<$ref> is a reference, the basic Perl type of the variable referenced is returned as a plain string (such as C<ARRAY> or C<HASH>). Otherwise C<undef> is returned.

$type = reftype "string";    # undef
$type = reftype $var;        # SCALAR
$type = reftype [];          # ARRAY

$obj = bless [], "Foo";
$type = reftype $obj;         # HASH

=head2 weaken
weaken( $ref );

The lvalue C<$ref> will be turned into a weak reference. This means that it will not hold a reference count on the object it references. Also, when the reference count on that object reaches zero, the reference will be set to undef. This function mutates the lvalue passed as its argument and returns no value.

This is useful for keeping copies of references, but you don't want to prevent the object being DESTROY-ed at its usual time.

{  
    my $var;  
    $ref = \$var;  
    weaken($ref);  # Make $ref a weak reference  
}
# $ref is now undef

Note that if you take a copy of a scalar with a weakened reference, the copy will be a strong reference.

my $var;  
my $foo = \$var;  # Make $foo a weak reference  
my $bar = $foo;  # $bar is now a strong reference

This may be less obvious in other situations, such as C<grep()>, for instance when grepping through a list of weakened references to objects that may have been destroyed already:

@object = grep { defined } @object;

This will indeed remove all references to destroyed objects, but the remaining references to objects will be strong, causing the remaining objects to never be destroyed because there is now always a strong reference to them in the @object array.

=head2 unweaken

unweaken( $ref );

I<Since version 1.36.>

The lvalue C<REF> will be turned from a weak reference back into a normal (strong) reference again. This function mutates the lvalue passed as its argument and returns no value. This undoes the action performed by L</weaken>.
This function is slightly neater and more convenient than the otherwise-equivalent code

    my $tmp = $REF;
    undef $REF;
    $REF = $tmp;

(because in particular, simply assigning a weak reference back to itself does not work to unweaken it; C<$REF = $REF> does not work).

=head2 isweak

    my $weak = isweak( $ref );

Returns true if C<$ref> is a weak reference.

    $ref = \$foo;
    $weak = isweak($ref);  # false
    weaken($ref);
    $weak = isweak($ref);  # true

B<NOTE>: Copying a weak reference creates a normal, strong, reference.

    $copy = $ref;
    $weak = isweak($copy);  # false

=head1 OTHER FUNCTIONS

=head2 dualvar

    my $var = dualvar( $num, $string );

Returns a scalar that has the value C<$num> in a numeric context and the value C<$string> in a string context.

    $foo = dualvar 10, "Hello";
    $num = $foo + 2;     # 12
    $str = $foo . " world"; # Hello world

=head2 isdual

    my $dual = isdual( $var );


If C<$var> is a scalar that has both numeric and string values, the result is true.
$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.

$vstring = v49.46.48;
$fmt  = isvstring($vstring) ? "%vd" : "%s"; #true
printf($fmt,$vstring);

=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 is a tied handle. Otherwise C<undef> is returned.

$fh = openhandle(*STDIN);    # *STDIN
$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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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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compiler/cpp/src/generate/t_hs_generator.cc
compiler/cpp/src/generate/t_java_generator.cc
compiler/cpp/src/generate/t_ocaml_generator.cc
compiler/cpp/src/generate/t_perl_generator.cc
compiler/cpp/src/generate/t_php_generator.cc
compiler/cpp/src/generate/t_py_generator.cc
compiler/cpp/src/generate/t_rb_generator.cc
compiler/cpp/src/generate/t_st_generator.cc
compiler/cpp/src/generate/t_xsd_generator.cc
compiler/cpp/src/main.cc
compiler/cpp/src/parser/t_field.h
compiler/cpp/src/parser/t_program.h
compiler/cpp/src/platform.h
compiler/cpp/src/thriftl.ll
compiler/cpp/src/thirfty.yy
lib/csharp/src/Protocol/TBinaryProtocol.cs
lib/csharp/src/Protocol/TField.cs
lib/csharp/src/Protocol/TList.cs
lib/csharp/src/Protocol/TMap.cs
lib/csharp/src/Protocol/TMessage.cs
lib/csharp/src/Protocol/ThrustType.cs
lib/csharp/src/Protocol/ThrustException.cs
lib/csharp/src/Protocol/ThrustFactory.cs
lib/csharp/src/Protocol/ThrustUtil.cs
lib/csharp/src/Protocol/ThrustSet.cs
lib/csharp/src/Protocol/TStruct.cs
lib/csharp/src/Protocol/TType.cs
lib/csharp/src/Server/TServer.cs
lib/csharp/src/Server/TSimpleServer.cs
lib/csharp/src/Server/TTThreadPoolServer.cs
lib/csharp/src/TApplicationException.cs
lib/csharp/src/Thrift.csproj
lib/csharp/src/Thrift.sln
lib/csharp/src/TProcessor.cs
lib/csharp/src/Transport/TServerSocket.cs
lib/csharp/src/Transport/TServerTransport.cs
lib/csharp/src/Transport/TSocket.cs
lib/csharp/src/Transport/TStreamTransport.cs
lib/csharp/src/Transport/TTTransport.cs
lib/csharp/src/Transport/TTTransportException.cs
lib/csharp/src/Transport/TTTransportFactory.cs
lib/csharp/ThriftMSBuildTask/Properties/AssemblyInfo.cs
lib/csharp/ThriftMSBuildTask/ThriftBuild.cs
lib/csharp/ThriftMSBuildTask/ThriftMSBuildTask.csproj
lib/rb/lib/thrift.rb
lib/st/README
lib/st/thrift.st
test/OptionalRequiredTest.cpp
test/OptionalRequiredTest.thrift
test/ThriftTest.thrift

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/netty-buffer-4-1-32-final-sources-2.jar/io/netty/buffer/PooledHeapByteBuf.java
/netty-buffer-4-1-32-final-sources-2.jar/io/netty/buffer/AbstractUnpooledSlicedByteBuf.java
/netty-buffer-4-1-32-final-sources-2.jar/io/netty/buffer/PooledSlicedByteBuf.java
/netty-buffer-4-1-32-final-sources-2.jar/io/netty/buffer/AbstractPooledDerivedByteBuf.java
/netty-buffer-4-1-32-final-sources-2.jar/io/netty/buffer/AdvancedLeakAwareCompositeByteBuf.java
1.3092 gpm 1.20.7-15.el8
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1.3095 checker-compat-qual 2.5.5

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Version 2.1, February 1999

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 */
/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its {@link ChannelPipeline}.  
 * 
 * <h3>Sub-types</h3>
 * 
 * [@link ChannelHandler] itself does not provide many methods, but you usually have to implement one of its
 * subtypes:
 * 
 * <ul>
 * <li>[@link ChannelInboundHandler] to handle inbound I/O events, and</li>
 * </ul>
* <li>{@link ChannelOutboundHandler} to handle outbound I/O operations.</li>
* </ul>
* </p>
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>{@link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
* <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
* <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
* </ul>
* </p>
* For more information, please refer to the documentation of each subtype.
* </p>
* 
* <h3>The context object</h3>
* 
* A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext} object. A {@link ChannelHandler} is supposed to interact with the {
* {@link ChannelPipeline} it belongs to via a context object. Using the context object, the {
* {@link ChannelHandler} can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using {
*{@link AttributeKey}s) which is specific to the handler.
* 
* <h3>State management</h3>
* 
* A {@link ChannelHandler} often needs to store some stateful information. The simplest and recommended approach is to use member variables:
* 
* <pre>
* public interface Message {
*    // your methods here
* }
* 
* public class DataServerHandler extends @link SimpleChannelInboundHandler&lt;Message&gt; {
* 
*     private boolean loggedIn;
* 
*     @Override
*     public void channelRead0(@link ChannelHandlerContext ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             loggedIn = true;
*         } else (message instanceof GetDataMessage) {
*             if (loggedIn) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*             } else {
*                 fail();
*             }
*     }
* }
* 
* 
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Because the handler instance has a state variable which is dedicated to
one connection, you have to create a new handler instance for each new
channel to avoid a race condition where a unauthenticated client can get
the confidential information:

Because the handler instance has a state variable which is dedicated to
one connection, you have to create a new handler instance for each new
channel to avoid a race condition where a unauthenticated client can get
the confidential information:

```java
// Create a new handler instance per channel.
// See {@link ChannelInitializer#initChannel(Channel)}.
public class DataServerInitializer extends @link ChannelInitializer{Channel} {
    @Override
    public void initChannel(@link Channel channel) {
        channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
    }
}
```

<h4>Using {@link AttributeKey}s</h4>

Although it's recommended to use member variables to store the state of a
handler, for some reason you might not want to create many handler instances.
In such a case, you can use {@link AttributeKey}s which is provided by
{@link ChannelHandlerContext}:

```java
public interface Message {
    // your methods here
}

@Sharable
public class DataServerHandler extends @link SimpleChannelInboundHandler<Message> {
    private final @link AttributeKey<Boolean> auth = AttributeKey.valueOf("auth");

    @Override
    public void channelRead(@link ChannelHandlerContext ctx, Message message) {
        Attribute<Boolean> attr = ctx.attr(auth);
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) o);
            attr.set(true);
        } else if (message instanceof GetDataMessage) {
            if (<b>Boolean.TRUE.equals(attr.get())</b>) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
            } else {
                fail();
            }
        }
    } // channelRead
}
```
Now that the state of the handler is attached to the \link{ChannelHandlerContext}, you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends \link{ChannelInitializer}{\link{Channel}} {

    private static final DataServerHandler \b>SHARED\b> = new DataServerHandler();

    \code{Override}
    public void initChannel(\link{Channel} channel) {
        channel.pipeline().addLast("handler", \b>SHARED\b>);
    }
}
```

### The \code{@Sharable} annotation

In the example above which used an \link{AttributeKey}, you might have noticed the \code{@Sharable} annotation.

If a \link{ChannelHandler} is annotated with the \code{@Sharable} annotation, it means you can create an instance of the handler just once and add it to one or more \link{ChannelPipeline}s multiple times without a race condition.

If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

This annotation is provided for documentation purpose, just like \url{http://www.javaconcurrencyinpractice.com/annotations/doc/} the JCIP annotations.

### Additional resources worth reading

Please refer to the \link{ChannelHandler}, and \link{ChannelPipeline} to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

```
*/
```

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  jar/io/netty/channel/socket/DatagramChannel.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
  jar/io/netty/channel/embedded/EmbeddedChannel.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
  jar/io/netty/channel/CombinedChannelDuplexHandler.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
  jar/io/netty/channel/socket/oio/OioSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
  jar/io/netty/channel/oio/AbstractOioMessageChannel.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
  jar/io/netty/channel/ChannelFuture.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
  jar/io/netty/channel/ChannelInboundHandler.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
  jar/io/netty/channel/local/LocalChannel.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
  jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
  jar/io/netty/channel/group/ChannelGroupFuture.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
  jar/io/netty/channel/socket/nio/NioSocketChannel.java
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  jar/io/netty/channel/ChannelPromiseNotifier.java
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jar/io/netty/channel/socket/io/NioServerSocketChannel.java
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jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/ChannelOutboundHandler.java
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jar/io/netty/channel/ChannelDuplexHandler.java
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jar/io/netty/channel/Channel.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/socket/oio/OioDatagramChannel.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/embedded/EmbeddedEventLoop.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/AbstractChannel.java
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jar/io/netty/channel/oio/package-info.java
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jar/io/netty/channel/socket/SocketChannel.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/DefaultFileRegion.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/nio/package-info.java
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jar/io/netty/channel/DefaultChannelPromise.java
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jar/io/netty/channel/MultithreadEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/socket/ChannelException.java
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jar/io/netty/channel/socket/LocalServerChannel.java
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* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/ThreadPerChannelEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/bootstrap/ServerBootstrap.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/ChannelException.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/socket/nio/AbstractNioMessageChannel.java
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jar/io/netty/channel/socket/DefaultFileRegion.java
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jar/io/netty/channel/socket/nio/AbstractNioMessageChannel.java
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jar/io/netty/channel/socket/DefaultFileRegion.java
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  jar/io/netty/channel/ChannelInboundInvoker.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
  jar/io/netty/channel/SelectStrategy.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
  jar/io/netty/channel/SelectStrategyFactory.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
  jar/io/netty/channel/DefaultSelectStrategy.java
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  jar/io/netty/bootstrap/AbstractBootstrapConfig.java
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  jar/io/netty/channel/PreferHeapByteBufAllocator.java
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  jar/io/netty/channel/ChannelOutboundInvoker.java
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  jar/io/netty/channel/WriteBufferWaterMark.java
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  jar/io/netty/channel/group/VoidChannelGroupFuture.java
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Manifest-Version: 1.0
Implementation-Title: Netty/Resolver
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name: io.netty.resolver
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.resolver
Implementation-Version: 4.1.63.Final
Built-By: root
Bnd-LastModified: 1617274739124
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: io.netty.util;version="[4.1,5)";io.netty.util.concurrent;version="[4.1,5)";io.netty.util.internal;version="[4.1,5)";io.netty.util.internal.logging;version="[4.1,5)";sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.resolver;uses:="io.netty.util.concurrent";version="4.1.63"
Bundle-Name: Netty/Resolver
Bundle-Version: 4.1.63.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_272
Implementation-URL: https://netty.io/netty-resolver/

```
1.3108 python3x-pip 19.2.3-
5.module_el8.2.0+317+61fa6e7d
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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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cabundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore

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@(#) SRCFile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $ Copyright (c) 2010-2018 Benjamin Peterson

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1.3109 itsdangerous 1.1.0

1.3109.1 Available under license :

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.. rst-class:: hide-header

itsdangerous

============

.. image:: _static/itsdangerous-logo.png
   :align: center
   :target: https://palletsprojects.com/p/itsdangerous/

Sometimes you just want to send some data to untrusted environments. But
how to do this safely? The trick involves signing. Given a key only you
know, you can cryptographically sign your data and hand it over to someone
else. When you get the data back you can easily ensure that nobody tampered
with it.

Granted, the receiver can decode the contents and look into the package,
but they can not modify the contents unless they also have your secret key. So if you keep the key secret and complex, you will be fine.

Internally itsdangerous uses HMAC and SHA-512 for signing by default. The initial implementation was inspired by Django's signing module <https://docs.djangoproject.com/en/dev/topics/signing/>_. It also supports JSON Web Signatures (JWS). The library is BSD licensed.

Installing
----------

Install and update using `pip`_:

.. code-block:: text

    pip install -U itsdangerous


Example Use Cases
-----------------

- You can serialize and sign a user ID in a URL and email it to them to unsubscribe from a newsletter. This way you don't need to generate one-time tokens and store them in the database. Same thing with any kind of activation link for accounts and similar things.
- Signed objects can be stored in cookies or other untrusted sources which means you don't need to have sessions stored on the server, which reduces the number of necessary database queries.
- Signed information can safely do a roundtrip between server and client in general which makes them useful for passing server-side state to a client and then back.

Table of Contents
-----------------

.. toctree::

    signer
    serializer
    exceptions
    timed
    url_safe
    jws
    encoding
Found in path(s):
* /opt/cola/permits/1160881332_1620412835.08/0/pallets-itsdangerous-1-1-0-0-g6e63598-1-tar-gz/pallets-
itsdangerous-6e63598/docs/index.rst
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* /opt/cola/permits/1160881332_1620412835.08/0/pallets-itsdangerous-1-1-0-0-g6e63598-1-tar-gz/pallets-
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The initial implementation of itsdangerous was inspired by Django's
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import io
import re

from setuptools import find_packages
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
    readme = f.read()

with io.open("src/itsdangerous/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r"__version__ = "(.*?)\"", f.read()).group(1)

setup(
    name="itsdangerous",
    version=version,
    url="https://palletsprojects.com/p/itsdangerous/",
    project_urls={
        "Documentation": "https://itsdangerous.palletsprojects.com/",
        "Code": "https://github.com/pallets/itsdangerous",
        "Issue tracker": "https://github.com/pallets/itsdangerous/issues",
    },
    license="BSD",
    author="Armin Ronacher",
    author_email="armin.ronacher@active-4.com",
    maintainer="Pallets Team",
    maintainer_email="contact@palletsprojects.com",
    description="Various helpers to pass data to untrusted environments and back.",
    long_description=readme,
packages=find_packages("src"),
package_dir={":": "src"},
include_package_data=True,
python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*",
classifiers=[
    "Development Status :: 5 - Production/Stable",
    "Intended Audience :: Developers",
    "License :: OSI Approved :: BSD License",
    "Operating System :: OS Independent",
    "Programming Language :: Python",
    "Programming Language :: Python :: 2",
    "Programming Language :: Python :: 2.7",
    "Programming Language :: Python :: 3",
    "Programming Language :: Python :: 3.4",
    "Programming Language :: Python :: 3.5",
    "Programming Language :: Python :: 3.6",
    "Programming Language :: Python :: 3.7",
],
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* /opt/cola/permits/1160881332_1620412835.08/0/pallets-itsdangerous-1-1-0-0-g6e63598-1-tar-gz/pallets-itsdangerous-6e63598/setup.py

1.3110 gzip 1.5 8.el7
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import "testing"

func TestIntegrationLicense(t *testing.T) {"}
license := License{Name: "the name", URL: "the url"}
const licenseJSON = `{"name":"the name","url":"the url"}`
const licenseYAML = "name: the name\nurl: the url"

assertSerializeJSON(t, license, licenseJSON)
assertSerializeYAML(t, license, licenseYAML)
assertParsesJSON(t, licenseJSON, license)
assertParsesYAML(t, licenseYAML, license)

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}
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David Gibson <david@gibson.dropbear.id.au>
(principal original author of dtc and libfdt)
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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.
In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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The header files "include/image.h" and "arch/*/include/asm/u-boot.h"
define interfaces to U-Boot. Including these (unmodified) header
files in another file is considered normal use of U-Boot, and does
*not* fall under the heading of "derived work".
-- Wolfgang Denk

```
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*
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*/
```

```c
{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
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TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(\"%s\",%#x)\n", NULL, NULL },
TARGET_FREEBSD_NR_execve, "execve\n", NULL, print_execve, NULL },
TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
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{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)", NULL, NULL },
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();
+        if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+            x86emu_dump_xregs();
+        } else {
+            x86emu_dump_regs();
+        }
    }
}

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.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops2.c 20 Mar 2008 15:48:34 -0000 1.3
@@ -149,8 +149,69 @@
target += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x
", 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 ");
+    }
}

static void print_decoded_instruction (void)
Index: ops2.c

Open Source Used In APIC-SE-BATMAN 2.1.1d 40063
+ 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;
+ 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\t");
+ 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;
+     default:
+         break;
+ }
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();
}
- 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();
}
@@ -2516,9 +2522,11 @@
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.intr & INTR_HALTED)
+            break;
    }
    while (count--) {
@@ -2526,6 +2534,8 @@
    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();
@@ -2559,9 +2569,11 @@
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--) {
@@ -2574,6 +2586,8 @@
 }
M.x86.R_SI += inc;
M.x86.R DI += inc;
+ if (M.x86.intr & INTR_HALTED)
+     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) {
+ /* move them until (E)CX is ZERO. */
+ 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_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 {
@@ -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) {
+ /* 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) {
    val1 = fetch_data_long(M.x86.R_SI);
    val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
    if (M.x86.mode & SYSMODE_PREFIX_REPE) &
    if (M.x86.intr & INTR_HALTED)
  } else {
    val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
    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) {
+        /* move them until (E)CX is ZERO. */
+        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
-            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;
+            if (M.x86.intr & INTR_HALTED)
+                break;
+    }

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 */
-        /* 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--) {
    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();
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) {
+    /* 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))
    break; /* zero flag set means equal */
else 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 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);
            }
@@ -2960,16 +3012,21 @@
            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;
        M.x86.R_DI += inc;
        if (ACCESS_FLAG(F_ZF) == 0)
            break;
@@ -2977,10 +3034,15 @@
            val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
} 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);
@@ -2997,10 +3055,11 @@
                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;
 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 {
@@ -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("RETF\t");
-RETURN_TRACE("RETF",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("RETF\t");
 imm = fetch_word_imm();
 DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RETF",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, "FAR");
 M.x86.R_SP += imm;
 DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RETF\n");
    -RETURN_TRACE("RETF",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 İnSTR();
@@ -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 İnSTR();
@@ -4062,8 +4130,11 @@
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)
+    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) /* (E)CX != 0 */
+        M.x86.R_IP = ip;
+        DECODE_CLEAR_SEG_ovr();
+        END_OF_INSTR();
+    }
+    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 ");
+    }
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();
}
@@ -5013,12 +5093,14 @@
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 = (s64)(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);
    @ @ -2355,15 +2354,15 @@
    }
    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 1.1
+++ sys.c 7 Sep 2007 10:03:13 -0000 1.2
@@ -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.h7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/debug.h20 Mar 2008 15:25:27 -0000 1.4
@ @ -40,8 +40,6 @@
#ifndef __X86EMU_DEBUG_H
#define __X86EMU_DEBUG_H
-//#define DEBUG 0
-#undef DEBUG
/*---------------------- 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_TRACECALL_REGS_F)
+## define DEBUG_TRACEJMP() (M.x86.debug & DEBUG_TRACEJMP_F)
+## define DEBUG_TRACEJMPREGS() (M.x86.debug & DEBUG_TRACEJMP_REGS_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())
        printk("%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x);
-# define RETURN_TRACE(n,u,v)                                    
+# define RETURN_TRACE(u,v,w,x,s)                                    
    if (DEBUG_TRACECALLREGS())									
        x86emu_dump_regs();
    if (DEBUG_TRACECALL())
        -printf("%04x:%04x: %s\n",u,v,n);
+printf("%04x:%04x: RET %s %04x:%04x\n",u,v,w,x); 
+  if (DEBUG_TRACEJMPREGS()) 
+    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

#define 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.h7 Sep 2007 10:01:21 -00001.1
#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_HALT 0x40000000  
    @ @ -231.6 +231.9 @ @  
    SYSMODE_SEGOVR_GS   |  \  
    SYSMODE_SEGOVR_SS   |  \  
    SYSMODE_PREFIX_DATA |  \  
    - SYSMODE_PREFIX_ADDR)  
+    SYSMODE_PREFIX_ADDR    |  \  
+    SYSMODE_32BIT_REP)  

#define INTR_SYNCH 0x1  
#define INTR_ASYNCH 0x2  
    @ @ -249.6 +278,9 @ @  
    */  
    u32            mode;  
    volatile int   intr;  /* mask of pending interrupts */  
-int    debug;  
+    volatile int    debug;  
#endif  

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 -00001.1
+++ include/x86emu/x86emu.h19 Oct 2007 08:42:15 -00001.3
@@ -47,6 +47,7 @@
#include <console.h>
#define printk(...) 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 @@
#endif __cplusplus
}                       /* End of "C" linkage for C++ */
#endif

-#endif /* __X86EMU_X86EMU_H */
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History
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Before (and including) argparse 1.1, the argparse package was licensed under 
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After argparse 1.1, all project files from the argparse project were deleted 
due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

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is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any 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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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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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

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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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1.3120 opensaml-storage-api 3.3.0

1.3121 golangci-lint-1 v0.0.0-20190420132249-ee948d087217

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