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1.273.1 Available under license  
**1.274 zip 3.0-11.el7**  
1.274.1 Available under license  
**1.275 mail 1.4**

1.275.1 Available under license  
**1.276 grep 2.20 3.e17**  
1.276.1 Available under license  
**1.277 spidermonkey 17.0.0-20.e17**  
1.277.1 Available under license  
**1.278 jackson 1.9.13**  
1.278.1 Available under license  
**1.279 libpgp-error 1.12-3.e17**  
1.279.1 Available under license  
**1.280 perl-pod-perldoc 3.20-4.e17**  
1.280.1 Available under license  
**1.281 checkpolicy 2.5-8.e17**  
1.281.1 Available under license  
**1.282 libestr 0.1.9-2.e17**  
1.282.1 Available under license  
**1.283 kerberos 1.15.1-50.e17**  
1.283.1 Available under license  
**1.284 iproute 4.11.0-30.e17**  
1.284.1 Available under license  
**1.285 less 458 9.e17**  
1.285.1 Available under license  
**1.286 initscripts 9.49.53-1.e17\_9.1**  
1.286.1 Available under license  
**1.287 parted 3.1 32.e17**  
1.287.1 Available under license  
**1.288 jsoup 1.7.3**  
1.288.1 Available under license  
**1.289 sctool 4.8-18.e17**  
1.289.1 Available under license  
**1.290 pcre 8.32 17.e17**  
1.290.1 Available under license  
**1.291 sshpass 1.06-2.e17**  
1.291.1 Available under license  
**1.292 gstreamer 1.16.1**  
1.292.1 Available under license  
**1.293 json-smart 2.2.1**  
1.293.1 Available under license  
**1.294 groff 1.22.2 8.e17**  
1.294.1 Available under license

**1.295 swagger-parser-v2-converter 2.0.17**

1.295.1 Available under license

**1.296 perl-pod-simple 3.28-4.el7**

1.296.1 Available under license

**1.297 dmidecode 3.2-5.el7**

1.297.1 Available under license

**1.298 libdrm 2.4.97-2.el7**

1.298.1 Available under license

**1.299 velocity 1.6.2**

1.299.1 Available under license

**1.300 curl 7.29.0-59.el7\_9.1**

1.300.1 Available under license

**1.301 liberation-fonts 1.07.2-16.el7**

1.301.1 Available under license

**1.302 rpm 4.11.3-45.el7**

1.302.1 Available under license

**1.303 javax-inject 2.3.0-b10**

1.303.1 Available under license

**1.304 jruby-stdlib 1.7.9**

**1.305 sqlite 3.7.17-8.el7\_7.1**

1.305.1 Available under license

**1.306 fio 3.7-2.el7**

1.306.1 Available under license

**1.307 p11-kit 0.23.5-3.el7**

1.307.1 Available under license

**1.308 jclouds-compute 1.0-beta-7**

**1.309 iprutils 2.4.17.1-3.el7\_7**

1.309.1 Available under license

**1.310 crontabs 1.11-6.20121102git.el7**

1.310.1 Available under license

**1.311 geronimojmspec 1.1.1**

1.311.1 Available under license

**1.312 perl-pod-usage 1.63-3.el7**

1.312.1 Available under license

**1.313 coreutils 8.22-24.el7\_9.2**

1.313.1 Available under license

**1.314 datanucleus-core 4.1.17**

1.314.1 Available under license

**1.315 wget 1.14 18.el7\_6.1**

- 1.315.1 Available under license
- 1.316 firewalld 0.6.3-12.el7**
  - 1.316.1 Available under license
- 1.317 perl-encode 2.51-7.el7**
  - 1.317.1 Available under license
- 1.318 xz 5.2.2 1.el7**
  - 1.318.1 Available under license
- 1.319 centos-release 7-9.2009.1.el7.centos**
  - 1.319.1 Available under license
- 1.320 perl-getopt-long 2.40-3.el7**
  - 1.320.1 Available under license
- 1.321 rpcbind 0.2.0 49.el7**
  - 1.321.1 Available under license
- 1.322 numactl 2.0.12-5.el7**
  - 1.322.1 Available under license
- 1.323 tcp-wrappers 7.6-77.el7**
  - 1.323.1 Available under license
- 1.324 ding-lib 1.3.1-32.el7**
  - 1.324.1 Available under license
- 1.325 perl-file-path 2.09-2.el7**
  - 1.325.1 Available under license
- 1.326 unzip 6.0 21.el7**
  - 1.326.1 Available under license
- 1.327 vt-dictionary 3.0**
- 1.328 python-urlgrabber 3.10 10.el7**
  - 1.328.1 Available under license
- 1.329 datanucleus-api-jdo 4.1.4**
  - 1.329.1 Available under license
- 1.330 jline 2.11**
- 1.331 nss 3.53.1-3.el7\_9**
  - 1.331.1 Available under license
- 1.332 perl-file-temp 0.23.01-3.el7**
  - 1.332.1 Available under license
- 1.333 tuned 2.13.0-1.ph3**
  - 1.333.1 Available under license
- 1.334 httpcomponents-core 4.3.2**
  - 1.334.1 Available under license
- 1.335 free-type 2.8-14.el7\_9.1**
  - 1.335.1 Available under license

### **1.336 jackson-dataformat-yaml 2.10.2**

1.336.1 Available under license

### **1.337 ipset 7.1 1.el7**

1.337.1 Available under license

### **1.338 nspr 4.25.0-2.el7\_9**

1.338.1 Available under license

### **1.339 selinux-policy 3.13.1-268.el7\_9.2**

1.339.1 Available under license

### **1.340 vim 7.4.629-7.el7**

1.340.1 Available under license

### **1.341 snake-yaml 1.24**

1.341.1 Available under license

### **1.342 commons-validator 1.4.0**

1.342.1 Available under license

### **1.343 libpng 1.5.13-8.el7**

1.343.1 Available under license

### **1.344 commons-daemon 1.2.2**

1.344.1 Available under license

### **1.345 bean-validation-api 1.1.0.Final**

1.345.1 Available under license

### **1.346 javax-annotation-api 1.2**

1.346.1 Available under license

### **1.347 commons-net 3.1**

1.347.1 Available under license

### **1.348 commons-codec 1.9**

1.348.1 Available under license

### **1.349 httpcomponents-core 4.4.1**

1.349.1 Available under license

### **1.350 ndctl 65-5.el7**

1.350.1 Available under license

### **1.351 glib 2.56.1-8.el7**

1.351.1 Available under license

### **1.352 selinux 2.5-15.el7**

1.352.1 Available under license

### **1.353 pciutils 3.5.1-3.el7**

1.353.1 Available under license

### **1.354 jruby 1.7.9**

### **1.355 libsepol 2.5-10.el7**

1.355.1 Available under license

- 1.356 jackson-mapper-asl 1.9.13**
  - 1.356.1 Available under license
- 1.357 swagger-parser 1.0.49**
  - 1.357.1 Available under license
- 1.358 activemq-broker 5.15.13**
  - 1.358.1 Available under license
- 1.359 javassist 3.19.0-GA**
- 1.360 commons-discovery 0.2**
  - 1.360.1 Available under license
- 1.361 sil-nuosu-fonts 2.1.1-5.e17**
  - 1.361.1 Available under license
- 1.362 readline 6.2-11.e17**
  - 1.362.1 Available under license
- 1.363 diffutils 3.3 5.e17**
  - 1.363.1 Available under license
- 1.364 guava 15.0**
- 1.365 libunistring 0.9.3 9.e17**
  - 1.365.1 Available under license
- 1.366 openipmi 2.0.27-1.e17**
  - 1.366.1 Available under license
- 1.367 gson 1.6**
- 1.368 perl 5.16.3-297.e17**
  - 1.368.1 Available under license
- 1.369 shared-mime-info 1.8 5.e17**
  - 1.369.1 Available under license
- 1.370 irqbalance 1.0.7 12.e17**
  - 1.370.1 Available under license
- 1.371 libndp 1.2 9.e17**
  - 1.371.1 Available under license
- 1.372 libmysqlclient 8.0.20**
  - 1.372.1 Available under license
- 1.373 xerces-j 2.8.1**
  - 1.373.1 Available under license
- 1.374 httprpc 5.6**
- 1.375 jdk 1.8.0u271**
  - 1.375.1 Available under license
- 1.376 jcommander 1.27**
- 1.377 ebttables 2.0.10-16.e17**
  - 1.377.1 Available under license



- 1.378 nfs-utils 0.25-19.el7**
  - 1.378.1 Available under license
- 1.379 elfutils 0.176-5.el7**
  - 1.379.1 Available under license
- 1.380 jclouds-scriptbuilder 1.0-SNAPSHOT**
  - 1.380.1 Available under license
- 1.381 vt-password 3.1.2**
- 1.382 gpgme 1.3.2 5.el7**
  - 1.382.1 Available under license
- 1.383 jackson-xc 2.10.2**
  - 1.383.1 Available under license
- 1.384 swagger 2.1.1**
  - 1.384.1 Available under license
- 1.385 yum 3.4.3-9.ph2**
  - 1.385.1 Available under license
- 1.386 jaxb-api 2.3.0**
  - 1.386.1 Available under license
- 1.387 commons-logging 1.1.1**
  - 1.387.1 Available under license
- 1.388 e2fsprogs 1.42.9-19.el7**
  - 1.388.1 Available under license
- 1.389 jcommon 1.0.16**
  - 1.389.1 Available under license
- 1.390 jsch 0.1.45**
  - 1.390.1 Available under license
- 1.391 polkit 0.112 26.el7**
  - 1.391.1 Available under license
- 1.392 hibernate-validator 5.1.3.Final**
  - 1.392.1 Available under license
- 1.393 jackson 2.10.2**
  - 1.393.1 Available under license
- 1.394 make 3.82 24.el7**
  - 1.394.1 Available under license
- 1.395 cronie 1.4.11 23.el7**
  - 1.395.1 Available under license
- 1.396 pth 2.0.7-23.el7**
  - 1.396.1 Available under license
- 1.397 lua 5.1.4 15.el7**
  - 1.397.1 Available under license

- 1.398 net-snmp 5.7.2-49.el7**
  - 1.398.1 Available under license
- 1.399 pygobject 3.22.0-1.el7\_4.1**
  - 1.399.1 Available under license
- 1.400 gnupg 2.0.22 5.el7\_5**
  - 1.400.1 Available under license
- 1.401 perl-threads 1.87-4.el7**
  - 1.401.1 Available under license
- 1.402 jackson-annotations 2.10.2**
  - 1.402.1 Available under license
- 1.403 geronimoj2eemanagement 1.0.1**
  - 1.403.1 Available under license
- 1.404 junit 4.9b2**
  - 1.404.1 Available under license
- 1.405 libcap 2.22 11.el7**
  - 1.405.1 Available under license
- 1.406 ehcache 2.6.6**
  - 1.406.1 Available under license
- 1.407 python-decorator 3.4.0-3.el7**
  - 1.407.1 Available under license
- 1.408 findutils 4.5.11 6.el7**
  - 1.408.1 Available under license
- 1.409 gdbm 1.10-8.el7**
  - 1.409.1 Available under license
- 1.410 jsr305 1.3.9**
  - 1.410.1 Available under license
- 1.411 relaxng-datatype 1.0**
  - 1.411.1 Available under license
- 1.412 ivtv-firmware 20080701-26.el7**
  - 1.412.1 Available under license
- 1.413 javax-ws-rs-api 2.0.1**
  - 1.413.1 Available under license
- 1.414 perl-http-tiny 0.033-3.el7**
  - 1.414.1 Available under license
- 1.415 libmnl 1.0.3 7.el7**
  - 1.415.1 Available under license
- 1.416 xfsprogs 4.5.0-22.el7**
  - 1.416.1 Available under license

# 1.1 perl-threads-shared 1.43-6.el7

## 1.1.1 Available under license :

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

Name: perl-threads-shared  
Version: 1.43  
Release: 6%{?dist}  
Summary: Perl extension for sharing data structures between threads  
License: GPL+ or Artistic  
Group: Development/Libraries  
URL: <http://search.cpan.org/dist/threads-shared/>  
Source0: <http://www.cpan.org/authors/id/J/JD/JDHEDDEN/threads-shared-%{version}.tar.gz>  
BuildRequires: perl  
BuildRequires: perl(Carp)  
BuildRequires: perl(Config)  
BuildRequires: perl(ExtUtils::MakeMaker)  
BuildRequires: perl(ExtUtils::testlib)  
BuildRequires: perl(File::Path)  
BuildRequires: perl(File::Spec)  
BuildRequires: perl(POSIX)  
BuildRequires: perl(Scalar::Util)  
BuildRequires: perl(strict)  
BuildRequires: perl(Test::More)  
BuildRequires: perl(threads) >= 1.73  
BuildRequires: perl(warnings)  
BuildRequires: perl(XSLoader)  
Requires: perl(:MODULE\_COMPAT\_\$(eval "`perl -V:version`"; echo \$version))  
Requires: perl(Carp)  
Requires: perl(threads) >= 1.73  
Requires: perl(XSLoader)

%{?perl\_default\_filter}

%description

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

%prep

%setup -q -n threads-shared-%{version}

%build

perl Makefile.PL INSTALLDIRS=vendor OPTIMIZE="\$RPM\_OPT\_FLAGS"  
make %{?\_smp\_mflags}

```

%install
make pure_install DESTDIR=$RPM_BUILD_ROOT
find $RPM_BUILD_ROOT -type f -name .packlist -exec rm -f {} \;
find $RPM_BUILD_ROOT -type f -name '*.bs' -size 0 -exec rm -f {} \;
%{_fixperms} $RPM_BUILD_ROOT/*

%check
make test

%files
%doc Changes README
%{perl_vendorarch}/auto/*
%{perl_vendorarch}/threads*
%{_mandir}/man3/*

%changelog
* Fri Jan 24 2014 Daniel Mach <dmach@redhat.com> - 1.43-6
- Mass rebuild 2014-01-24

* Fri Dec 27 2013 Daniel Mach <dmach@redhat.com> - 1.43-5
- Mass rebuild 2013-12-27

* Tue Jul 02 2013 Jitka Plesnikova <jplesnik@redhat.com> - 1.43-4
- Remove BR perl(Test)

* Tue Jul 02 2013 Jitka Plesnikova <jplesnik@redhat.com> - 1.43-3
- Specify all dependencies

* Thu Feb 14 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.43-2
- Rebuilt for https://fedoraproject.org/wiki/Fedora\_19\_Mass\_Rebuild

* Tue Jan 15 2013 Petr Pizar <ppisar@redhat.com> - 1.43-1
- 1.43 bump

* Fri Nov 23 2012 Jitka Plesnikova <jplesnik@redhat.com> - 1.42-2
- Add BR perl(File::Spec)
- Replace PERL_INSTALL_ROOT with DESTDIR
- Remove deleting empty directories
- Remove defattr

* Wed Oct 03 2012 Petr Pizar <ppisar@redhat.com> - 1.42-1
- 1.42 bump

* Mon Sep 10 2012 Petr Pizar <ppisar@redhat.com> - 1.41-1
- 1.41 bump

* Mon Aug 13 2012 Marcela Malov <mmlasano@redhat.com> - 1.40-240
- bump release to override sub-package from perl.spec

```

- \* Fri Jul 20 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.40-4  
- Rebuilt for [https://fedoraproject.org/wiki/Fedora\\_18\\_Mass\\_Rebuild](https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild)
- \* Wed Jun 06 2012 Petr Písar <ppisar@redhat.com> - 1.40-3  
- Perl 5.16 rebuild
- \* Sat Jan 14 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.40-2  
- Rebuilt for [https://fedoraproject.org/wiki/Fedora\\_17\\_Mass\\_Rebuild](https://fedoraproject.org/wiki/Fedora_17_Mass_Rebuild)
- \* Mon Sep 12 2011 Petr Písar <ppisar@redhat.com> - 1.40-1  
- 1.40 bump
- \* Tue Sep 06 2011 Petr Písar <ppisar@redhat.com> - 1.39-1  
- 1.39 bump
- \* Wed Aug 17 2011 Marcela Maloň <mmlaslo@redhat.com> - 1.37-3  
- change path on vendor, so our debuginfo are not conflicting with perl core debuginfos
- \* Mon Jun 20 2011 Marcela Maloň <mmlaslo@redhat.com> - 1.37-2  
- Perl mass rebuild
- \* Tue Apr 26 2011 Petr Písar <ppisar@redhat.com> - 1.37-1  
- 1.37 bump
- \* Wed Feb 09 2011 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.36-2  
- Rebuilt for [https://fedoraproject.org/wiki/Fedora\\_15\\_Mass\\_Rebuild](https://fedoraproject.org/wiki/Fedora_15_Mass_Rebuild)
- \* Mon Jan 03 2011 Petr Písar <ppisar@redhat.com> - 1.36-1  
- 1.36 bump
- \* Mon Oct 11 2010 Petr Písar <ppisar@redhat.com> - 1.34-1  
- 1.34 bump
- \* Thu Sep 23 2010 Petr Písar <ppisar@redhat.com> 1.33-1  
- Specfile autogenerated by cpanspec 1.78.  
- Fix dependencies  
- Requires perl(Scalar::Util) is autodetected  
- Do not provide private library  
- Remove pre-F12 BuildRoot stuff

Found in path(s):

\* /opt/cola/permits/1000848935\_1646171523.39/0/perl-threads-shared-1.43-6.el7.src.rpm-cosi-expand-archive-XIsbALc3/perl-threads-shared.spec

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

/\* shared.xs

```

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

/*
* Shared variables are implemented by a scheme similar to tieing.
* Each thread has a proxy SV with attached magic -- "private SVs" --
* which all point to a single SV in a separate shared interpreter
* (PL_sharesv_space) -- "shared SVs".
*
* The shared SV holds the variable's true values, and its state is
* copied between the shared and private SVs with the usual
* mg_get()/mg_set() arrangement.
*
* Aggregates (AVs and HVs) are implemented using tie magic, except that
* the vtable used is one defined in this file rather than the standard one.
* This means that where a tie function like FETCH is normally invoked by
* the tie magic's mg_get() function, we completely bypass the calling of a
* perl-level function, and directly call C-level code to handle it. On
* the other hand, calls to functions like PUSH are done directly by code
* in av.c, etc., which we can't bypass. So the best we can do is to provide
* XS versions of these functions. We also have to attach a tie object,
* blessed into the class threads::shared::tie, to keep the method-calling
* code happy.
*
* Access to aggregate elements is done the usual tied way by returning a
* proxy PVLV element with attached element magic.
*
* Pointers to the shared SV are squirreled away in the mg->mg_ptr field
* of magic (with mg_len == 0), and in the IV2PTR(SvIV(sv)) field of tied
* object SVs. These pointers have to be hidden like this because they
* cross interpreter boundaries, and we don't want sv_clear() and friends
* following them.
*
* The three basic shared types look like the following:
*

```

```

* -----
*
* Shared scalar (my $s : shared):
*
* SV = PVMG(0x7ba238) at 0x7387a8
* FLAGS = (PADMY,GMG,SMG)
* MAGIC = 0x824d88
* MG_TYPE = PERL_MAGIC_shared_scalar(n)
* MG_PTR = 0x810358 <<<< pointer to the shared SV
*
* -----
*
* Shared aggregate (my @a : shared; my %h : shared):
*
* SV = PVAV(0x7175d0) at 0x738708
* FLAGS = (PADMY,RMG)
* MAGIC = 0x824e48
* MG_TYPE = PERL_MAGIC_tied(P)
* MG_OBJ = 0x7136e0 <<<< ref to the tied object
* SV = RV(0x7136f0) at 0x7136e0
* RV = 0x738640
* SV = PVMG(0x7ba238) at 0x738640 <<<< the tied object
* FLAGS = (OBJECT,IOK,pIOK)
* IV = 8455000 <<<< pointer to the shared AV
* STASH = 0x80abf0 "threads::shared::tie"
* MG_PTR = 0x810358 "" <<<< another pointer to the shared AV
* ARRAY = 0x0
*
* -----
*
* Aggregate element (my @a : shared; $a[0])
*
* SV = PVLV(0x77f628) at 0x713550
* FLAGS = (GMG,SMG,RMG,pIOK)
* MAGIC = 0x72bd58
* MG_TYPE = PERL_MAGIC_shared_scalar(n)
* MG_PTR = 0x8103c0 "" <<<< pointer to the shared element
* MAGIC = 0x72bd18
* MG_TYPE = PERL_MAGIC_tiedelem(p)
* MG_OBJ = 0x7136e0 <<<< ref to the tied object
* SV = RV(0x7136f0) at 0x7136e0
* RV = 0x738660
* SV = PVMG(0x7ba278) at 0x738660 <<<< the tied object
* FLAGS = (OBJECT,IOK,pIOK)
* IV = 8455064 <<<< pointer to the shared AV
* STASH = 0x80ac30 "threads::shared::tie"
* TYPE = t
*

```

```

* Note that PERL_MAGIC_tiedelem(p) magic doesn't have a pointer to a
* shared SV in mg_ptr; instead this is used to store the hash key,
* if any, like normal tied elements. Note also that element SVs may have
* pointers to both the shared aggregate and the shared element.
*
*
* Userland locks:
*
* If a shared variable is used as a perl-level lock or condition
* variable, then PERL_MAGIC_ext magic is attached to the associated
* *shared* SV, whose mg_ptr field points to a malloc'ed structure
* containing the necessary mutexes and condition variables.
*
* Nomenclature:
*
* In this file, any variable name prefixed with 's' (e.g., ssv, stmp or sobj)
* usually represents a shared SV which corresponds to a private SV named
* without the prefix (e.g., sv, tmp or obj).
*/

```

```

#define PERL_NO_GET_CONTEXT
#include "EXTERN.h"
#include "perl.h"
#include "XSUB.h"
#ifdef HAS_PPPORT_H
# define NEED_sv_2pv_flags
# define NEED_vnewSVpvf
# define NEED_warner
# define NEED_newSVpv_n_flags
# include "ppport.h"
# include "shared.h"
#endif

```

```

#ifdef USE_ITHREADS

```

```

/* Magic signature(s) for mg_private to make PERL_MAGIC_ext magic safer */

```

```

#define UL_MAGIC_SIG 0x554C /* UL = user lock */

```

```

/*

```

```

* The shared things need an interpreter to live in ...

```

```

*/

```

```

PerlInterpreter *PL_sharesv_space; /* The shared sv space */

```

```

/* To access shared space we fake aTHX in this scope and thread's context */

```

```

/* Bug #24255: We include ENTER+SAVETMPS/FREETMPS+LEAVE with

```

```

* SHARED_CONTEXT/CALLER_CONTEXT macros, so that any mortals, etc. created

```

```

* while in the shared interpreter context don't languish */

```



```

#define SHARED_CONTEXT
    STMT_START {
        PERL_SET_CONTEXT((aTHX = PL_sharesv_space));
        ENTER;
        SAVETMPS;
    } STMT_END

/* So we need a way to switch back to the caller's context... */
/* So we declare _another_ copy of the aTHX variable ... */
#define dTHXc PerlInterpreter *caller_perl = aTHX

/* ... and use it to switch back */
#define CALLER_CONTEXT
    STMT_START {
        FREETMPS;
        LEAVE;
        PERL_SET_CONTEXT((aTHX = caller_perl));
    } STMT_END

/*
 * Only one thread at a time is allowed to mess with shared space.
 */

typedef struct {
    perl_mutex      mutex;
    PerlInterpreter *owner;
    I32             locks;
    perl_cond       cond;
#ifdef DEBUG_LOCKS
    char *          file;
    int             line;
#endif
} recursive_lock_t;

recursive_lock_t PL_sharesv_lock; /* Mutex protecting the shared sv space */

void
recursive_lock_init(pTHX_ recursive_lock_t *lock)
{
    Zero(lock, 1, recursive_lock_t);
    MUTEX_INIT(&lock->mutex);
    COND_INIT(&lock->cond);
}

void
recursive_lock_destroy(pTHX_ recursive_lock_t *lock)
{
    MUTEX_DESTROY(&lock->mutex);
}

```

```

    COND_DESTROY(&lock->cond);
}

void
recursive_lock_release(pTHX_ recursive_lock_t *lock)
{
    MUTEX_LOCK(&lock->mutex);
    if (lock->owner == aTHX) {
        if (--lock->locks == 0) {
            lock->owner = NULL;
            COND_SIGNAL(&lock->cond);
        }
    }
    MUTEX_UNLOCK(&lock->mutex);
}

void
recursive_lock_acquire(pTHX_ recursive_lock_t *lock, char *file, int line)
{
    PERL_UNUSED_ARG(file);
    PERL_UNUSED_ARG(line);
    assert(aTHX);
    MUTEX_LOCK(&lock->mutex);
    if (lock->owner == aTHX) {
        lock->locks++;
    } else {
        while (lock->owner) {
#ifdef DEBUG_LOCKS
            Perl_warn(aTHX_ " %p waiting - owned by %p %s:%d\n",
                    aTHX, lock->owner, lock->file, lock->line);
#endif
            COND_WAIT(&lock->cond,&lock->mutex);
        }
        lock->locks = 1;
        lock->owner = aTHX;
#ifdef DEBUG_LOCKS
        lock->file = file;
        lock->line = line;
#endif
    }
    MUTEX_UNLOCK(&lock->mutex);
    SAVEDESTRUCTOR_X(recursive_lock_release,lock);
}

#define ENTER_LOCK \
    STMT_START { \
        ENTER; \
        recursive_lock_acquire(aTHX_ &PL_sharesv_lock, __FILE__, __LINE__);

```

```

} STMT_END

/* The unlocking is done automatically at scope exit */
#define LEAVE_LOCK    LEAVE

/* A common idiom is to acquire access and switch in ... */
#define SHARED_EDIT \
    STMT_START { \
        ENTER_LOCK; \
        SHARED_CONTEXT; \
    } STMT_END

/* ... then switch out and release access. */
#define SHARED_RELEASE \
    STMT_START { \
        CALLER_CONTEXT; \
        LEAVE_LOCK; \
    } STMT_END

/* User-level locks:
   This structure is attached (using ext magic) to any shared SV that
   is used by user-level locking or condition code
*/

typedef struct {
    recursive_lock_t  lock;      /* For user-level locks */
    perl_cond        user_cond; /* For user-level conditions */
} user_lock;

/* Magic used for attaching user_lock structs to shared SVs

   The vtable used has just one entry - when the SV goes away
   we free the memory for the above.
*/

int
sharedsv_userlock_free(pTHX_ SV *sv, MAGIC *mg)
{
    user_lock *ul = (user_lock *) mg->mg_ptr;
    PERL_UNUSED_ARG(sv);
    assert(aTHX == PL_sharedsv_space);
    if (ul) {
        recursive_lock_destroy(aTHX_ &ul->lock);
        COND_DESTROY(&ul->user_cond);
        PerlMemShared_free(ul);
        mg->mg_ptr = NULL;
    }
}

```

```

    }
    return (0);
}

MGVTBL sharedsv_userlock_vtbl = {
    0,          /* get */
    0,          /* set */
    0,          /* len */
    0,          /* clear */
    sharedsv_userlock_free, /* free */
    0,          /* copy */
    0,          /* dup */
#ifdef MGf_LOCAL
    0,          /* local */
#endif
};

/* Support for dual-valued variables */
#ifdef SVf_IVisUV
# define DUALVAR_FLAGS(sv) \
    ((SvPOK(sv) \
     ? ((SvNOK(sv) || SvNOKp(sv)) ? SVf_NOK \
      : ((SvIsUV(sv)) ? (SVf_IOK | SVf_IVisUV) \
      : ((SvIOK(sv) || SvIOKp(sv)) ? SVf_IOK : 0))) \
     : 0)
#else
# define DUALVAR_FLAGS(sv) \
    ((SvPOK(sv) \
     ? ((SvNOK(sv) || SvNOKp(sv)) ? SVf_NOK \
      : ((SvIOK(sv) || SvIOKp(sv)) ? SVf_IOK : 0)) \
     : 0)
#endif

/*
 * Access to shared things is heavily based on MAGIC
 * - in mg.h/mg.c/sv.c sense
 */

/* In any thread that has access to a shared thing there is a "proxy"
   for it in its own space which has 'MAGIC' associated which accesses
   the shared thing.
 */

extern MGVTBL sharedsv_scalar_vtbl; /* Scalars have this vtable */
extern MGVTBL sharedsv_array_vtbl; /* Hashes and arrays have this
                                     - like 'tie' */

```

```

extern MGVTBL sharedsv_elem_vtbl; /* Elements of hashes and arrays have
                                this _AS WELL AS_ the scalar magic:
    The sharedsv_elem_vtbl associates the element with the array/hash and
    the sharedsv_scalar_vtbl associates it with the value
*/

/* Get shared aggregate SV pointed to by threads::shared::tie magic object */

#define SHARED_SV_FROM_OBJ(sv) ((SvROK(sv)) ? INT2PTR(SV *, SvIV(SvRV(sv))) : NULL)

/* Return the user_lock structure (if any) associated with a shared SV.
 * If create is true, create one if it doesn't exist
 */
STATIC user_lock *
S_get_userlock(pTHX_ SV* ssv, bool create)
{
    MAGIC *mg;
    user_lock *ul = NULL;

    assert(ssv);
    /* XXX Redesign the storage of user locks so we don't need a global
     * lock to access them ??? DAPM */
    ENTER_LOCK;

    /* Version of mg_find that also checks the private signature */
    for (mg = SvMAGIC(ssv); mg; mg = mg->mg_moremagic) {
        if ((mg->mg_type == PERL_MAGIC_ext) &&
            (mg->mg_private == UL_MAGIC_SIG))
        {
            break;
        }
    }

    if (mg) {
        ul = (user_lock*)(mg->mg_ptr);
    } else if (create) {
        dTHXc;
        SHARED_CONTEXT;
        ul = (user_lock *) PerlMemShared_malloc(sizeof(user_lock));
        Zero(ul, 1, user_lock);
        /* Attach to shared SV using ext magic */
        mg = sv_magicext(ssv, NULL, PERL_MAGIC_ext, &sharedsv_userlock_vtbl,
                        (char *)ul, 0);
        mg->mg_private = UL_MAGIC_SIG; /* Set private signature */
        recursive_lock_init(aTHX_ &ul->lock);
        COND_INIT(&ul->user_cond);
    }
}

```

```

    CALLER_CONTEXT;
}
LEAVE_LOCK;
return (ul);
}

/* Given a private side SV tries to find if the SV has a shared backend,
 * by looking for the magic.
 */
SV *
Perl_sharesv_find(pTHX_ SV *sv)
{
    MAGIC *mg;
    if (SvTYPE(sv) >= SVt_PVMG) {
        switch(SvTYPE(sv)) {
        case SVt_PVAV:
        case SVt_PVHV:
            if ((mg = mg_find(sv, PERL_MAGIC_tied))
                && mg->mg_virtual == &sharesv_array_vtbl) {
                return ((SV *)mg->mg_ptr);
            }
            break;
        default:
            /* This should work for elements as well as they
             * have scalar magic as well as their element magic
             */
            if ((mg = mg_find(sv, PERL_MAGIC_shared_scalar))
                && mg->mg_virtual == &sharesv_scalar_vtbl) {
                return ((SV *)mg->mg_ptr);
            }
            break;
        }
    }
    /* Just for tidyness of API also handle tie objects */
    if (SvROK(sv) && sv_derived_from(sv, "threads::shared::tie")) {
        return (SHAREDSV_FROM_OBJ(sv));
    }
    return (NULL);
}

/* Associate a private SV with a shared SV by pointing the appropriate
 * magics at it.
 * Assumes lock is held.
 */
void
Perl_sharesv_associate(pTHX_ SV *sv, SV *ssv)

```

```

{
    MAGIC *mg = 0;

    /* If we are asked for any private ops we need a thread */
    assert ( aTHX != PL_sharesv_space );

    /* To avoid need for recursive locks require caller to hold lock */
    assert ( PL_sharesv_lock.owner == aTHX );

    switch(SvTYPE(sv)) {
    case SVt_PVAV:
    case SVt_PVHV:
        if (!(mg = mg_find(sv, PERL_MAGIC_tied))
            || mg->mg_virtual != &sharesv_array_vtbl
            || (SV*) mg->mg_ptr != ssv)
        {
            SV *obj = newSV(0);
            sv_setref_iv(obj, "threads::shared::tie", PTR2IV(ssv));
            if (mg) {
                sv_unmagic(sv, PERL_MAGIC_tied);
            }
            mg = sv_magicext(sv, obj, PERL_MAGIC_tied, &sharesv_array_vtbl,
                (char *)ssv, 0);
            mg->mg_flags |= (MGf_COPY|MGf_DUP);
            SvREFCNT_inc_void(ssv);
            SvREFCNT_dec(obj);
        }
        break;

    default:
        if ((SvTYPE(sv) < SVt_PVMG)
            || !(mg = mg_find(sv, PERL_MAGIC_shared_scalar))
            || mg->mg_virtual != &sharesv_scalar_vtbl
            || (SV*) mg->mg_ptr != ssv)
        {
            if (mg) {
                sv_unmagic(sv, PERL_MAGIC_shared_scalar);
            }
            mg = sv_magicext(sv, Nullsv, PERL_MAGIC_shared_scalar,
                &sharesv_scalar_vtbl, (char *)ssv, 0);
            mg->mg_flags |= (MGf_DUP
#ifdef MGf_LOCAL
                |MGf_LOCAL
#endif
            );
            SvREFCNT_inc_void(ssv);
        }
        break;

```

```

    }

    assert ( Perl_sharesv_find(aTHX_ sv) == ssv );
}

/* Given a private SV, create and return an associated shared SV.
 * Assumes lock is held.
 */
STATIC SV *
S_sharesv_new_shared(pTHX_ SV *sv)
{
    dTHXc;
    SV *ssv;

    assert(PL_sharesv_lock.owner == aTHX);
    assert(aTHX != PL_sharesv_space);

    SHARED_CONTEXT;
    ssv = newSV(0);
    SvREFCNT(ssv) = 0; /* Will be upped to 1 by Perl_sharesv_associate */
    sv_upgrade(ssv, SvTYPE(sv));
    CALLER_CONTEXT;
    Perl_sharesv_associate(aTHX_ sv, ssv);
    return (ssv);
}

/* Given a shared SV, create and return an associated private SV.
 * Assumes lock is held.
 */
STATIC SV *
S_sharesv_new_private(pTHX_ SV *ssv)
{
    SV *sv;

    assert(PL_sharesv_lock.owner == aTHX);
    assert(aTHX != PL_sharesv_space);

    sv = newSV(0);
    sv_upgrade(sv, SvTYPE(ssv));
    Perl_sharesv_associate(aTHX_ sv, ssv);
    return (sv);
}

/* A threadsafe version of SvREFCNT_dec(ssv) */

```



```

STATIC void
S_sharesv_dec(pTHX_ SV* ssv)
{
    if (! ssv)
        return;
    ENTER_LOCK;
    if (SvREFCNT(ssv) > 1) {
        /* No side effects, so can do it lightweight */
        SvREFCNT_dec(ssv);
    } else {
        dTHXc;
        SHARED_CONTEXT;
        SvREFCNT_dec(ssv);
        CALLER_CONTEXT;
    }
    LEAVE_LOCK;
}

/* Implements Perl-level share() and :shared */

void
Perl_sharesv_share(pTHX_ SV *sv)
{
    switch(SvTYPE(sv)) {
    case SVt_PVGV:
        Perl_croak(aTHX_ "Cannot share globs yet");
        break;

    case SVt_PVCV:
        Perl_croak(aTHX_ "Cannot share subs yet");
        break;

    default:
        ENTER_LOCK;
        (void) S_sharesv_new_shared(aTHX_ sv);
        LEAVE_LOCK;
        SvSETMAGIC(sv);
        break;
    }
}

#ifdef WIN32
/* Number of milliseconds from 1/1/1601 to 1/1/1970 */
#define EPOCH_BIAS    11644473600000.

/* Returns relative time in milliseconds. (Adapted from Time::HiRes.) */

```

```

STATIC DWORD
S_abs_2_rel_milli(double abs)
{
    double rel;

    /* Get current time (in units of 100 nanoseconds since 1/1/1601) */
    union {
        FILETIME ft;
        __int64 i64; /* 'signed' to keep compilers happy */
    } now;

    GetSystemTimeAsFileTime(&now.ft);

    /* Relative time in milliseconds */
    rel = (abs * 1000.) - (((double)now.i64 / 10000.) - EPOCH_BIAS);
    if (rel <= 0.0) {
        return (0);
    }
    return (DWORD)rel;
}

#else
# if defined(OS2)
# define ABS2RELMILLI(abs) \
do { \
    abs -= (double)time(NULL); \
    if (abs > 0) { abs *= 1000; } \
    else { abs = 0; } \
} while (0)
# endif /* OS2 */
#endif /* WIN32 */

/* Do OS-specific condition timed wait */

bool
Perl_sharesv_cond_timedwait(perl_cond *cond, perl_mutex *mut, double abs)
{
    #if defined(NETWARE) || defined(FAKE_THREADS) || defined(I_MACH_CTHREADS)
    Perl_croak_nocontext("cond_timedwait not supported on this platform");
    #else
    # ifdef WIN32
    int got_it = 0;

    cond->waiters++;
    MUTEX_UNLOCK(mut);
    /* See comments in win32/win32thread.h COND_WAIT vis-a-vis race */
    switch (WaitForSingleObject(cond->sem, S_abs_2_rel_milli(abs))) {
        case WAIT_OBJECT_0: got_it = 1; break;
    }
    # endif
    #endif
}

```

```

    case WAIT_TIMEOUT:          break;
    default:
        /* WAIT_FAILED? WAIT_ABANDONED? others? */
        Perl_croak_nocontext("panic: cond_timedwait (%ld)",GetLastError());
        break;
    }
    MUTEX_LOCK(mut);
    cond->waiters--;
    return (got_it);
# else
#   ifdef OS2
    int rc, got_it = 0;
    STRLEN n_a;

    ABS2RELMILLI(abs);

    if ((rc = DosResetEventSem(*cond,&n_a) && (rc != ERROR_ALREADY_RESET))
        Perl_rc = rc, croak_with_os2error("panic: cond_timedwait-reset");
    MUTEX_UNLOCK(mut);
    if (CheckOSError(DosWaitEventSem(*cond,abs))
        && (rc != ERROR_INTERRUPT))
        croak_with_os2error("panic: cond_timedwait");
    if (rc == ERROR_INTERRUPT) errno = EINTR;
    MUTEX_LOCK(mut);
    return (got_it);
#   else /* Hope you're L_PTHREAD! */
    struct timespec ts;
    int got_it = 0;

    ts.tv_sec = (long)abs;
    abs -= (NV)ts.tv_sec;
    ts.tv_nsec = (long)(abs * 1000000000.0);

    switch (pthread_cond_timedwait(cond, mut, &ts)) {
        case 0:      got_it = 1; break;
        case ETIMEDOUT:      break;
#ifdef OEMVS
        case -1:
            if (errno == ETIMEDOUT || errno == EAGAIN)
                break;
#endif
        default:
            Perl_croak_nocontext("panic: cond_timedwait");
            break;
    }
    return (got_it);
#   endif /* OS2 */
#   endif /* WIN32 */

```

```

#endif /* NETWARE || FAKE_THREADS || I_MACH_CTHREADS */
}

/* Given a thingy referenced by a shared RV, copy it's value to a private
 * RV, also copying the object status of the referent.
 * If the private side is already an appropriate RV->SV combination, keep
 * it if possible.
 */
STATIC void
S_get_RV(pTHX_ SV *sv, SV *sobj) {
    SV *obj;
    if (! (SvROK(sv) &&
           ((obj = SvRV(sv)) &&
            (Perl_sharesv_find(aTHX_ obj) == sobj) &&
            (SvTYPE(obj) == SvTYPE(sobj))))))
    {
        /* Can't reuse obj */
        if (SvROK(sv)) {
            SvREFCNT_dec(SvRV(sv));
        } else {
            assert(SvTYPE(sv) >= SVt_RV);
            sv_setsv_nomg(sv, &PL_sv_undef);
            SvROK_on(sv);
        }
        obj = S_sharesv_new_private(aTHX_ sobj);
        SvRV_set(sv, obj);
    }

    if (SvOBJECT(obj)) {
        /* Remove any old blessing */
        SvREFCNT_dec(SvSTASH(obj));
        SvOBJECT_off(obj);
    }
    if (SvOBJECT(sobj)) {
        /* Add any new old blessing */
        STRLEN len;
        char* stash_ptr = SvPV((SV*) SvSTASH(sobj), len);
        HV* stash = gv_stashpvn(stash_ptr, len, TRUE);
        SvOBJECT_on(obj);
        SvSTASH_set(obj, (HV*)SvREFCNT_inc(stash));
    }
}

/* Every caller of S_get_RV needs this incantation (which cannot go inside
 * S_get_RV itself, as we do not want recursion beyond one level): */
#define get_RV(sv, sobj) \
    S_get_RV(aTHX_ sv, sobj); \

```

```

    /* Look ahead for refs of refs */ \
    if (SvROK(sobj)) { \
        SvROK_on(SvRV(sv)); \
        S_get_RV(aTHX_ SvRV(sv), SvRV(sobj)); \
    }

/* ----- PERL_MAGIC_shared_scalar(n) functions ----- */

/* Get magic for PERL_MAGIC_shared_scalar(n) */

int
sharingsv_scalar_mg_get(pTHX_ SV *sv, MAGIC *mg)
{
    SV *ssv = (SV *) mg->mg_ptr;
    assert(ssv);

    ENTER_LOCK;
    if (SvROK(ssv)) {
        get_RV(sv, SvRV(ssv));
    } else {
        sv_setsv_nomg(sv, ssv);
    }
    LEAVE_LOCK;
    return (0);
}

/* Copy the contents of a private SV to a shared SV.
 * Used by various mg_set()-type functions.
 * Assumes lock is held.
 */
void
sharingsv_scalar_store(pTHX_ SV *sv, SV *ssv)
{
    dTHXc;
    bool allowed = TRUE;

    assert(PL_sharingsv_lock.owner == aTHX);
    if (!PL_dirty && SvROK(ssv) && SvREFCNT(SvRV(ssv)) == 1) {
        SV *sv = sv_newmortal();
        sv_upgrade(sv, SVt_RV);
        get_RV(sv, SvRV(ssv));
    }
    if (SvROK(sv)) {
        SV *obj = SvRV(sv);
        SV *sobj = Perl_sharingsv_find(aTHX_ obj);
        if (sobj) {
            SHARED_CONTEXT;

```

```

(void)SvUPGRADE(ssv, SVt_RV);
sv_setsv_nomg(ssv, &PL_sv_undef);

SvRV_set(ssv, SvREFCNT_inc(sobj));
SvROK_on(ssv);
if (SvOBJECT(sobj)) {
    /* Remove any old blessing */
    SvREFCNT_dec(SvSTASH(sobj));
    SvOBJECT_off(sobj);
}
if (SvOBJECT(obj)) {
    SV* fake_stash = newSVpv(HvNAME_get(SvSTASH(obj)),0);
    SvOBJECT_on(sobj);
    SvSTASH_set(sobj, (HV*)fake_stash);
}
CALLER_CONTEXT;
} else {
    allowed = FALSE;
}
} else {
    SvTEMP_off(sv);
    SHARED_CONTEXT;
    sv_setsv_nomg(ssv, sv);
    if (SvOBJECT(ssv)) {
        /* Remove any old blessing */
        SvREFCNT_dec(SvSTASH(ssv));
        SvOBJECT_off(ssv);
    }
    if (SvOBJECT(sv)) {
        SV* fake_stash = newSVpv(HvNAME_get(SvSTASH(sv)),0);
        SvOBJECT_on(ssv);
        SvSTASH_set(ssv, (HV*)fake_stash);
    }
    CALLER_CONTEXT;
}
if (!allowed) {
    Perl_croak(aTHX_ "Invalid value for shared scalar");
}
}

/* Set magic for PERL_MAGIC_shared_scalar(n) */

int
sharedsv_scalar_mg_set(pTHX_ SV *sv, MAGIC *mg)
{
    SV *ssv = (SV*)(mg->mg_ptr);
    assert(ssv);
    ENTER_LOCK;

```

```

if (SvTYPE(ssv) < SvTYPE(sv)) {
    dTHXc;
    SHARED_CONTEXT;
    sv_upgrade(ssv, SvTYPE(sv));
    CALLER_CONTEXT;
}
sharingsv_scalar_store(aTHX_ sv, ssv);
LEAVE_LOCK;
return (0);
}

/* Free magic for PERL_MAGIC_shared_scalar(n) */

int
sharingsv_scalar_mg_free(pTHX_ SV *sv, MAGIC *mg)
{
    PERL_UNUSED_ARG(sv);
    ENTER_LOCK;
    if (!PL_dirty
        && SvROK((SV *)mg->mg_ptr) && SvREFCNT(SvRV((SV *)mg->mg_ptr)) == 1) {
        SV *sv = sv_newmortal();
        sv_upgrade(sv, SVt_RV);
        get_RV(sv, SvRV((SV *)mg->mg_ptr));
    }
    S_sharingsv_dec(aTHX_ (SV*)mg->mg_ptr);
    LEAVE_LOCK;
    return (0);
}

/*
 * Called during cloning of PERL_MAGIC_shared_scalar(n) magic in new thread
 */
int
sharingsv_scalar_mg_dup(pTHX_ MAGIC *mg, CLONE_PARAMS *param)
{
    PERL_UNUSED_ARG(param);
    SvREFCNT_inc_void(mg->mg_ptr);
    return (0);
}

#ifdef MGf_LOCAL
/*
 * Called during local $shared
 */
int
sharingsv_scalar_mg_local(pTHX_ SV* nsv, MAGIC *mg)
{
    MAGIC *nmg;

```

```

SV *ssv = (SV *) mg->mg_ptr;
if (ssv) {
    ENTER_LOCK;
    SvREFCNT_inc_void(ssv);
    LEAVE_LOCK;
}
nmg = sv_magicext(nsv, mg->mg_obj, mg->mg_type, mg->mg_virtual,
                 mg->mg_ptr, mg->mg_len);
nmg->mg_flags = mg->mg_flags;
nmg->mg_private = mg->mg_private;

return (0);
}
#endif

MGVTBL sharedsv_scalar_vtbl = {
    sharedsv_scalar_mg_get, /* get */
    sharedsv_scalar_mg_set, /* set */
    0, /* len */
    0, /* clear */
    sharedsv_scalar_mg_free, /* free */
    0, /* copy */
    sharedsv_scalar_mg_dup, /* dup */
#ifdef MGf_LOCAL
    sharedsv_scalar_mg_local, /* local */
#endif
};

/* ----- PERL_MAGIC_tiedelem(p) functions ----- */

/* Get magic for PERL_MAGIC_tiedelem(p) */

int
sharedsv_elem_mg_FETCH(pTHX_ SV *sv, MAGIC *mg)
{
    dTHXc;
    SV *saggregate = SHARED_SV_FROM_OBJ(mg->mg_obj);
    SV** svp = NULL;

    ENTER_LOCK;
    if (saggregate) { /* During global destruction, underlying
                       aggregate may no longer exist */
        if (SvTYPE(saggregate) == SVt_PVAV) {
            assert ( mg->mg_ptr == 0 );
            SHARED_CONTEXT;
            svp = av_fetch((AV*) saggregate, mg->mg_len, 0);
        } else {
            char *key = mg->mg_ptr;

```



```

I32 len = mg->mg_len;
assert ( mg->mg_ptr != 0 );
if (mg->mg_len == HEf_SVKEY) {
    STRLEN slen;
    key = SvPV((SV *)mg->mg_ptr, slen);
    len = slen;
    if (SvUTF8((SV *)mg->mg_ptr)) {
        len = -len;
    }
}
SHARED_CONTEXT;
svp = hv_fetch((HV*) saggregate, key, len, 0);
}
CALLER_CONTEXT;
}
if (svp) {
    /* Exists in the array */
    if (SvROK(*svp)) {
        get_RV(sv, SvRV(*svp));
    } else {
        /* $ary->[elem] or $ary->{elem} is a scalar */
        Perl_sharesv_associate(aTHX_ sv, *svp);
        sv_setsv(sv, *svp);
    }
} else {
    /* Not in the array */
    sv_setsv(sv, &PL_sv_undef);
}
LEAVE_LOCK;
return (0);
}

/* Set magic for PERL_MAGIC_tiedelem(p) */

int
sharesv_elem_mg_STORE(pTHX_ SV *sv, MAGIC *mg)
{
    dTHXc;
    SV *saggregate = SHARED_SV_FROM_OBJ(mg->mg_obj);
    SV **svp;
    U32 dualvar_flags = DUALVAR_FLAGS(sv);

    /* Theory - SV itself is magically shared - and we have ordered the
       magic such that by the time we get here it has been stored
       to its shared counterpart
    */
    ENTER_LOCK;
    assert(saggregate);

```

```

if (SvTYPE(saggregate) == SVt_PVAV) {
    assert ( mg->mg_ptr == 0 );
    SHARED_CONTEXT;
    svp = av_fetch((AV*) saggregate, mg->mg_len, 1);
} else {
    char *key = mg->mg_ptr;
    I32 len = mg->mg_len;
    assert ( mg->mg_ptr != 0 );
    if (mg->mg_len == HEf_SVKEY) {
        STRLEN slen;
        key = SvPV((SV *)mg->mg_ptr, slen);
        len = slen;
        if (SvUTF8((SV *)mg->mg_ptr)) {
            len = -len;
        }
    }
    SHARED_CONTEXT;
    svp = hv_fetch((HV*) saggregate, key, len, 1);
}
CALLER_CONTEXT;
Perl_sharesv_associate(aTHX_sv, *svp);
sharesv_scalar_store(aTHX_sv, *svp);
SvFLAGS(*svp) |= dualvar_flags;
LEAVE_LOCK;
return (0);
}

/* Clear magic for PERL_MAGIC_tiedelem(p) */

int
sharesv_elem_mg_DELETE(pTHX_SV *sv, MAGIC *mg)
{
    dTHXc;
    MAGIC *shmg;
    SV *saggregate = SHARED_SV_FROM_OBJ(mg->mg_obj);

    /* Object may not exist during global destruction */
    if (!saggregate) {
        return (0);
    }

    ENTER_LOCK;
    sharesv_elem_mg_FETCH(aTHX_sv, mg);
    if ((shmg = mg_find(sv, PERL_MAGIC_shared_scalar)))
        sharesv_scalar_mg_get(aTHX_sv, shmg);
    if (SvTYPE(saggregate) == SVt_PVAV) {
        SHARED_CONTEXT;
        av_delete((AV*) saggregate, mg->mg_len, G_DISCARD);
    }
}

```

```

} else {
    char *key = mg->mg_ptr;
    I32 len = mg->mg_len;
    assert ( mg->mg_ptr != 0 );
    if (mg->mg_len == HEf_SVKEY) {
        STRLEN slen;
        key = SvPV((SV *)mg->mg_ptr, slen);
        len = slen;
        if (SvUTF8((SV *)mg->mg_ptr)) {
            len = -len;
        }
    }
    SHARED_CONTEXT;
    (void) hv_delete((HV*) saggregate, key, len, G_DISCARD);
}
CALLER_CONTEXT;
LEAVE_LOCK;
return (0);
}

/* Called during cloning of PERL_MAGIC_tiedelem(p) magic in new
 * thread */

int
shredsv_elem_mg_dup(pTHX_ MAGIC *mg, CLONE_PARAMS *param)
{
    PERL_UNUSED_ARG(param);
    SvREFCNT_inc_void(SHAREDSV_FROM_OBJ(mg->mg_obj));
    assert(mg->mg_flags & MGf_DUP);
    return (0);
}

MGVTBL shredsv_elem_vtbl = {
    shredsv_elem_mg_FETCH, /* get */
    shredsv_elem_mg_STORE, /* set */
    0, /* len */
    shredsv_elem_mg_DELETE, /* clear */
    0, /* free */
    0, /* copy */
    shredsv_elem_mg_dup, /* dup */
#ifdef MGf_LOCAL
    0, /* local */
#endif
};

/* ----- PERL_MAGIC_tied(P) functions ----- */

/* Len magic for PERL_MAGIC_tied(P) */

```

U32

```
sharedsv_array_mg_FETCHSIZE(pTHX_ SV *sv, MAGIC *mg)
{
    dTHXc;
    SV *ssv = (SV *) mg->mg_ptr;
    U32 val;
    PERL_UNUSED_ARG(sv);
    SHARED_EDIT;
    if (SvTYPE(ssv) == SVt_PVAV) {
        val = av_len((AV*) ssv);
    } else {
        /* Not actually defined by tie API but ... */
        val = HvUSEDKEYS((HV*) ssv);
    }
    SHARED_RELEASE;
    return (val);
}
```

```
/* Clear magic for PERL_MAGIC_tied(P) */
```

int

```
sharedsv_array_mg_CLEAR(pTHX_ SV *sv, MAGIC *mg)
{
    dTHXc;
    SV *ssv = (SV *) mg->mg_ptr;
    const bool isav = SvTYPE(ssv) == SVt_PVAV;
    PERL_UNUSED_ARG(sv);
    SHARED_EDIT;
    if (!PL_dirty) {
        SV **svp = isav ? AvARRAY((AV *)ssv) : NULL;
        I32 items = isav ? AvFILLp((AV *)ssv) + 1 : 0;
        HE *iter;
        if (!isav) hv_iterinit((HV *)ssv);
        while (isav ? items-- : !(iter = hv_iternext((HV *)ssv))) {
            SV *sv = isav ? *svp++ : HeVAL(iter);
            if (!sv) continue;
            if ( (SvOBJECT(sv) || (SvROK(sv) && (sv = SvRV(sv))))
                && SvREFCNT(sv) == 1 ) {
                SV *tmp = Perl_sv_newmortal(caller_perl);
                PERL_SET_CONTEXT((aTHX = caller_perl));
                sv_upgrade(tmp, SvRV);
                get_RV(tmp, sv);
                PERL_SET_CONTEXT((aTHX = PL_sharedsv_space));
            }
        }
    }
    if (isav) av_clear((AV*) ssv);
}
```

```

else    hv_clear((HV*) ssv);
SHARED_RELEASE;
return (0);
}

/* Free magic for PERL_MAGIC_tied(P) */

int
sharedsv_array_mg_free(pTHX_ SV *sv, MAGIC *mg)
{
    PERL_UNUSED_ARG(sv);
    S_sharedsv_dec(aTHX_ (SV*)mg->mg_ptr);
    return (0);
}

/*
 * Copy magic for PERL_MAGIC_tied(P)
 * This is called when perl is about to access an element of
 * the array -
 */
#if PERL_VERSION >= 11
int
sharedsv_array_mg_copy(pTHX_ SV *sv, MAGIC* mg,
                      SV *nsv, const char *name, I32 namlen)
#else
int
sharedsv_array_mg_copy(pTHX_ SV *sv, MAGIC* mg,
                      SV *nsv, const char *name, int namlen)
#endif
{
    MAGIC *nmg = sv_magicext(nsv,mg->mg_obj,
                             toLOWER(mg->mg_type),&sharedsv_elem_vtbl,
                             name, namlen);
    PERL_UNUSED_ARG(sv);
    nmg->mg_flags |= MGf_DUP;
    return (1);
}

/* Called during cloning of PERL_MAGIC_tied(P) magic in new thread */

int
sharedsv_array_mg_dup(pTHX_ MAGIC *mg, CLONE_PARAMS *param)
{
    PERL_UNUSED_ARG(param);
    SvREFCNT_inc_void((SV*)mg->mg_ptr);
    assert(mg->mg_flags & MGf_DUP);
    return (0);
}

```

```

MGVTBL sharedsv_array_vtbl = {
    0,          /* get */
    0,          /* set */
    sharedsv_array_mg_FETCHSIZE, /* len */
    sharedsv_array_mg_CLEAR, /* clear */
    sharedsv_array_mg_free, /* free */
    sharedsv_array_mg_copy, /* copy */
    sharedsv_array_mg_dup, /* dup */
#ifdef MGf_LOCAL
    0,          /* local */
#endif
};

/* Recursively unlocks a shared sv. */

void
Perl_sharedsv_unlock(pTHX_ SV *ssv)
{
    user_lock *ul = S_get_userlock(aTHX_ ssv, 0);
    assert(ul);
    recursive_lock_release(aTHX_ &ul->lock);
}

/* Recursive locks on a sharedsv.
 * Locks are dynamically scoped at the level of the first lock.
 */
void
Perl_sharedsv_lock(pTHX_ SV *ssv)
{
    user_lock *ul;
    if (! ssv)
        return;
    ul = S_get_userlock(aTHX_ ssv, 1);
    recursive_lock_acquire(aTHX_ &ul->lock, __FILE__, __LINE__);
}

/* Handles calls from lock() builtin via PL_lockhook */

void
Perl_sharedsv_locksv(pTHX_ SV *sv)
{
    SV *ssv;

    if (SvROK(sv))
        ssv = SvRV(sv);
}

```

```

    ssv = Perl_sharesv_find(aTHX_ sv);
    if (!ssv)
        croak("lock can only be used on shared values");
    Perl_sharesv_lock(aTHX_ ssv);
}

/* Can a shared object be destroyed?
 * True if not a shared,
 * or if destroying last proxy on a shared object
 */
#ifdef PL_destroyhook
bool
Perl_shared_object_destroy(pTHX_ SV *sv)
{
    SV *ssv;

    if (SvROK(sv))
        sv = SvRV(sv);
    ssv = Perl_sharesv_find(aTHX_ sv);
    return (!ssv || (SvREFCNT(ssv) <= 1));
}
#endif

/* veto signal dispatch if we have the lock */

#ifdef PL_signalhook

STATIC despatch_signals_proc_t prev_signal_hook = NULL;

STATIC void
S_shared_signal_hook(pTHX) {
    int us;
    MUTEX_LOCK(&PL_sharesv_lock.mutex);
    us = (PL_sharesv_lock.owner == aTHX);
    MUTEX_UNLOCK(&PL_sharesv_lock.mutex);
    if (us)
        return; /* try again later */
    prev_signal_hook(aTHX);
}
#endif

/* Saves a space for keeping SVs wider than an interpreter. */

void
Perl_sharesv_init(pTHX)
{
    dTHXc;

```

```

/* This pair leaves us in shared context ... */
PL_sharesv_space = perl_alloc();
perl_construct(PL_sharesv_space);
LEAVE; /* This balances the ENTER at the end of perl_construct. */
PERL_SET_CONTEXT((aTHX = caller_perl));
recursive_lock_init(aTHX_ &PL_sharesv_lock);
PL_lockhook = &Perl_sharesv_locksv;
PL_sharehook = &Perl_sharesv_share;
#ifdef PL_destroyhook
    PL_destroyhook = &Perl_shared_object_destroy;
#endif
#ifdef PL_signalhook
    if (!prev_signal_hook) {
        prev_signal_hook = PL_signalhook;
        PL_signalhook = &S_shared_signal_hook;
    }
#endif
}

```

```

#endif /* USE_ITHREADS */

```

```

MODULE = threads::shared    PACKAGE = threads::shared::tie

```

```

PROTOTYPES: DISABLE

```

```

#ifdef USE_ITHREADS

```

```

void
PUSH(SV *obj, ...)
CODE:
    dTHXc;
    SV *sobj = SHARED_FROM_OBJ(obj);
    int ii;
    for (ii = 1; ii < items; ii++) {
        SV* tmp = newSVsv(ST(ii));
        SV *stmp;
        U32 dualvar_flags = DUALVAR_FLAGS(tmp);
        ENTER_LOCK;
        stmp = S_sharesv_new_shared(aTHX_ tmp);
        sharesv_scalar_store(aTHX_ tmp, stmp);
        SvFLAGS(stmp) |= dualvar_flags;
        SHARED_CONTEXT;
        av_push((AV*) sobj, stmp);
        SvREFCNT_inc_void(stmp);
        SHARED_RELEASE;
        SvREFCNT_dec(tmp);
    }

```



```

void
UNSHIFT(SV *obj, ...)
CODE:
    dTHXc;
    SV *sobj = SHARED_SV_FROM_OBJ(obj);
    int ii;
    ENTER_LOCK;
    SHARED_CONTEXT;
    av_unshift((AV*)sobj, items - 1);
    CALLER_CONTEXT;
    for (ii = 1; ii < items; ii++) {
        SV *tmp = newSVsv(ST(ii));
        U32 dualvar_flags = DUALVAR_FLAGS(tmp);
        SV *stmp = S_sharedsv_new_shared(aTHX_ tmp);
        sharedsv_scalar_store(aTHX_ tmp, stmp);
        SHARED_CONTEXT;
        SvFLAGS(stmp) |= dualvar_flags;
        av_store((AV*) sobj, ii - 1, stmp);
        SvREFCNT_inc_void(stmp);
        CALLER_CONTEXT;
        SvREFCNT_dec(tmp);
    }
    LEAVE_LOCK;

```

```

void
POP(SV *obj)
CODE:
    dTHXc;
    SV *sobj = SHARED_SV_FROM_OBJ(obj);
    SV* ssv;
    ENTER_LOCK;
    SHARED_CONTEXT;
    ssv = av_pop((AV*)sobj);
    CALLER_CONTEXT;
    ST(0) = sv_newmortal();
    Perl_sharedsv_associate(aTHX_ ST(0), ssv);
    SvREFCNT_dec(ssv);
    LEAVE_LOCK;
    /* XSRETURN(1); - implied */

```

```

void
SHIFT(SV *obj)
CODE:
    dTHXc;
    SV *sobj = SHARED_SV_FROM_OBJ(obj);

```

```

SV* ssv;
ENTER_LOCK;
SHARED_CONTEXT;
ssv = av_shift((AV*)sobj);
CALLER_CONTEXT;
ST(0) = sv_newmortal();
Perl_sharesv_associate(aTHX_ ST(0), ssv);
SvREFCNT_dec(ssv);
LEAVE_LOCK;
/* XSRETURN(1); - implied */

```

```

void
EXTEND(SV *obj, IV count)
CODE:
    dTHXc;
    SV *sobj = SHARED_SV_FROM_OBJ(obj);
    SHARED_EDIT;
    av_extend((AV*)sobj, count);
    SHARED_RELEASE;

```

```

void
STORESIZE(SV *obj, IV count)
CODE:
    dTHXc;
    SV *sobj = SHARED_SV_FROM_OBJ(obj);
    SHARED_EDIT;
    av_fill((AV*)sobj, count);
    SHARED_RELEASE;

```

```

void
EXISTS(SV *obj, SV *index)
CODE:
    dTHXc;
    SV *sobj = SHARED_SV_FROM_OBJ(obj);
    bool exists;
    if (SvTYPE(sobj) == SVt_PVAV) {
        SHARED_EDIT;
        exists = av_exists((AV*)sobj, SvIV(index));
    } else {
        I32 len;
        STRLEN slen;
        char *key = SvPVutf8(index, slen);
        len = slen;
        if (SvUTF8(index)) {
            len = -len;

```

```

    }
    SHARED_EDIT;
    exists = hv_exists((HV*) sobj, key, len);
}
SHARED_RELEASE;
ST(0) = (exists) ? &PL_sv_yes : &PL_sv_no;
/* XSRETURN(1); - implied */

```

void

FIRSTKEY(SV \*obj)

CODE:

```

    dTHXc;
    SV *sobj = SHARED_SV_FROM_OBJ(obj);
    char* key = NULL;
    I32 len = 0;
    HE* entry;
    ENTER_LOCK;
    SHARED_CONTEXT;
    hv_iterinit((HV*) sobj);
    entry = hv_iternext((HV*) sobj);
    if (entry) {
        I32 utf8 = HeKUTF8(entry);
        key = hv_iterkey(entry, &len);
        CALLER_CONTEXT;
        ST(0) = newSVpvn_flags(key, len, SVs_TEMP | (utf8 ? SVf_UTF8 : 0));
    } else {
        CALLER_CONTEXT;
        ST(0) = &PL_sv_undef;
    }
    LEAVE_LOCK;
    /* XSRETURN(1); - implied */

```

void

NEXTKEY(SV \*obj, SV \*oldkey)

CODE:

```

    dTHXc;
    SV *sobj = SHARED_SV_FROM_OBJ(obj);
    char* key = NULL;
    I32 len = 0;
    HE* entry;

    PERL_UNUSED_VAR(oldkey);

    ENTER_LOCK;
    SHARED_CONTEXT;
    entry = hv_iternext((HV*) sobj);

```

```

if (entry) {
    I32 utf8 = HeKUTF8(entry);
    key = hv_iterkey(entry,&len);
    CALLER_CONTEXT;
    ST(0) = newSVpvn_flags(key, len, SVs_TEMP | (utf8 ? SVf_UTF8 : 0));
} else {
    CALLER_CONTEXT;
    ST(0) = &PL_sv_undef;
}
LEAVE_LOCK;
/* XSRETURN(1); - implied */

```

MODULE = threads::shared      PACKAGE = threads::shared

PROTOTYPES: ENABLE

```

void
_id(SV *myref)
PROTOTYPE: \[$@%]
PREINIT:
    SV *ssv;
CODE:
    myref = SvRV(myref);
    if (SvMAGICAL(myref))
        mg_get(myref);
    if (SvROK(myref))
        myref = SvRV(myref);
    ssv = Perl_sharesv_find(aTHX_ myref);
    if (! ssv)
        XSRETURN_UNDEF;
    ST(0) = sv_2mortal(newSVuv(PTR2UV(ssv)));
    /* XSRETURN(1); - implied */

```

```

void
_refcnt(SV *myref)
PROTOTYPE: \[$@%]
PREINIT:
    SV *ssv;
CODE:
    myref = SvRV(myref);
    if (SvROK(myref))
        myref = SvRV(myref);
    ssv = Perl_sharesv_find(aTHX_ myref);
    if (! ssv) {
        if (ckWARN(WARN_THREADS)) {
            Perl_warner(aTHX_ packWARN(WARN_THREADS),

```

```

        "% " SVf " is not shared", ST(0));
    }
    XSRETURN_UNDEF;
}
ST(0) = sv_2mortal(newSViv(SvREFCNT(ssv)));
/* XSRETURN(1); - implied */

```

void

share(SV \*myref)

PROTOTYPE: \[\$@%]

CODE:

```

    if (! SvROK(myref))
        Perl_croak(aTHX_ "Argument to share needs to be passed as ref");
    myref = SvRV(myref);
    if (SvROK(myref))
        myref = SvRV(myref);
    Perl_sharesv_share(aTHX_ myref);
    ST(0) = sv_2mortal(newRV_inc(myref));
    /* XSRETURN(1); - implied */

```

void

cond\_wait(SV \*ref\_cond, SV \*ref\_lock = 0)

PROTOTYPE: \[\$@%];\[\$@%]

PREINIT:

```

    SV *ssv;
    perl_cond* user_condition;
    int locks;
    user_lock *ul;

```

CODE:

```

    if (!SvROK(ref_cond))
        Perl_croak(aTHX_ "Argument to cond_wait needs to be passed as ref");
    ref_cond = SvRV(ref_cond);
    if (SvROK(ref_cond))
        ref_cond = SvRV(ref_cond);
    ssv = Perl_sharesv_find(aTHX_ ref_cond);
    if (! ssv)
        Perl_croak(aTHX_ "cond_wait can only be used on shared values");
    ul = S_get_userlock(aTHX_ ssv, 1);

    user_condition = &ul->user_cond;
    if (ref_lock && (ref_cond != ref_lock)) {
        if (!SvROK(ref_lock))
            Perl_croak(aTHX_ "cond_wait lock needs to be passed as ref");
        ref_lock = SvRV(ref_lock);
        if (SvROK(ref_lock)) ref_lock = SvRV(ref_lock);
        ssv = Perl_sharesv_find(aTHX_ ref_lock);
    }

```

```

    if (! ssv)
        Perl_croak(aTHX_ "cond_wait lock must be a shared value");
    ul = S_get_userlock(aTHX_ ssv, 1);
}
if (ul->lock.owner != aTHX)
    croak("You need a lock before you can cond_wait");

/* Stealing the members of the lock object worries me - NI-S */
MUTEX_LOCK(&ul->lock.mutex);
ul->lock.owner = NULL;
locks = ul->lock.locks;
ul->lock.locks = 0;

/* Since we are releasing the lock here, we need to tell other
 * people that it is ok to go ahead and use it */
COND_SIGNAL(&ul->lock.cond);
COND_WAIT(user_condition, &ul->lock.mutex);
while (ul->lock.owner != NULL) {
    /* OK -- must reacquire the lock */
    COND_WAIT(&ul->lock.cond, &ul->lock.mutex);
}
ul->lock.owner = aTHX;
ul->lock.locks = locks;
MUTEX_UNLOCK(&ul->lock.mutex);

int
cond_timedwait(SV *ref_cond, double abs, SV *ref_lock = 0)
PROTOTYPE: \[$@%]\$;\[$@%]
PREINIT:
    SV *ssv;
    perl_cond* user_condition;
    int locks;
    user_lock *ul;
CODE:
    if (! SvROK(ref_cond))
        Perl_croak(aTHX_ "Argument to cond_timedwait needs to be passed as ref");
    ref_cond = SvRV(ref_cond);
    if (SvROK(ref_cond))
        ref_cond = SvRV(ref_cond);
    ssv = Perl_sharesv_find(aTHX_ ref_cond);
    if (! ssv)
        Perl_croak(aTHX_ "cond_timedwait can only be used on shared values");
    ul = S_get_userlock(aTHX_ ssv, 1);

    user_condition = &ul->user_cond;
    if (ref_lock && (ref_cond != ref_lock)) {
        if (! SvROK(ref_lock))

```

```

    Perl_croak(aTHX_ "cond_timedwait lock needs to be passed as ref");
    ref_lock = SvRV(ref_lock);
    if (SvROK(ref_lock)) ref_lock = SvRV(ref_lock);
    ssv = Perl_sharesv_find(aTHX_ ref_lock);
    if (! ssv)
        Perl_croak(aTHX_ "cond_timedwait lock must be a shared value");
    ul = S_get_userlock(aTHX_ ssv, 1);
}
if (ul->lock.owner != aTHX)
    Perl_croak(aTHX_ "You need a lock before you can cond_wait");

MUTEX_LOCK(&ul->lock.mutex);
ul->lock.owner = NULL;
locks = ul->lock.locks;
ul->lock.locks = 0;
/* Since we are releasing the lock here, we need to tell other
 * people that it is ok to go ahead and use it */
COND_SIGNAL(&ul->lock.cond);
RETVAL = Perl_sharesv_cond_timedwait(user_condition, &ul->lock.mutex, abs);
while (ul->lock.owner != NULL) {
    /* OK -- must reacquire the lock... */
    COND_WAIT(&ul->lock.cond, &ul->lock.mutex);
}
ul->lock.owner = aTHX;
ul->lock.locks = locks;
MUTEX_UNLOCK(&ul->lock.mutex);

if (RETVAL == 0)
    XSRETURN_UNDEF;
OUTPUT:
    RETVAL

```

```

void
cond_signal(SV *myref)
    PROTOTYPE: \[$@%]
    PREINIT:
        SV *ssv;
        user_lock *ul;
    CODE:
        if (! SvROK(myref))
            Perl_croak(aTHX_ "Argument to cond_signal needs to be passed as ref");
        myref = SvRV(myref);
        if (SvROK(myref))
            myref = SvRV(myref);
        ssv = Perl_sharesv_find(aTHX_ myref);
        if (! ssv)
            Perl_croak(aTHX_ "cond_signal can only be used on shared values");

```

```

ul = S_get_userlock(aTHX_ ssv, 1);
if (ckWARN(WARN_THREADS) && ul->lock.owner != aTHX) {
    Perl_warner(aTHX_ packWARN(WARN_THREADS),
                "cond_signal() called on unlocked variable");
}
COND_SIGNAL(&ul->user_cond);

```

void

cond\_broadcast(SV \*myref)

PROTOTYPE: \[\$@%]

PREINIT:

SV \*ssv;

user\_lock \*ul;

CODE:

if (! SvROK(myref))

Perl\_croak(aTHX\_ "Argument to cond\_broadcast needs to be passed as ref");

myref = SvRV(myref);

if (SvROK(myref))

myref = SvRV(myref);

ssv = Perl\_sharesv\_find(aTHX\_ myref);

if (! ssv)

Perl\_croak(aTHX\_ "cond\_broadcast can only be used on shared values");

ul = S\_get\_userlock(aTHX\_ ssv, 1);

if (ckWARN(WARN\_THREADS) && ul->lock.owner != aTHX) {

Perl\_warner(aTHX\_ packWARN(WARN\_THREADS),

"cond\_broadcast() called on unlocked variable");

}

COND\_BROADCAST(&ul->user\_cond);

void

bleed(SV\* myref, ...)

PROTOTYPE: \$;\$

PREINIT:

HV\* stash;

SV \*ssv;

CODE:

if (items == 1) {

stash = CopSTASH(PL\_curcop);

} else {

SV\* classname = ST(1);

STRLEN len;

char \*ptr;

if (classname &&

! SvGMAGICAL(classname) &&

! SvAMAGIC(classname) &&



```

        SvROK(classname)
    {
        Perl_croak(aTHX_ "Attempt to bless into a reference");
    }
    ptr = SvPV(classname, len);
    if (ckWARN(WARN_MISC) && len == 0) {
        Perl_warner(aTHX_ packWARN(WARN_MISC),
            "Explicit blessing to " (assuming package main));
    }
    stash = gv_stashpvn(ptr, len, TRUE);
}
SvREFCNT_inc_void(myref);
(void)sv_bless(myref, stash);
ST(0) = sv_2mortal(myref);
ssv = Perl_sharesv_find(aTHX_ myref);
if (ssv) {
    dTHXc;
    ENTER_LOCK;
    SHARED_CONTEXT;
    {
        SV* fake_stash = newSVpv(HvNAME_get(stash), 0);
        (void)sv_bless(ssv, (HV*)fake_stash);
    }
    CALLER_CONTEXT;
    LEAVE_LOCK;
}
/* XSRETURN(1); - implied */

#endif /* USE_ITHREADS */

```

BOOT:

```

{
#ifdef USE_ITHREADS
    Perl_sharesv_init(aTHX);
#endif /* USE_ITHREADS */
}

```

Found in path(s):

```

* /opt/cola/permits/1000848935_1646171523.39/0/perl-threads-shared-1.43-6.el7.src.rpm-cosi-expand-archive-
XIsbALc3/threads-shared-1.43.tar.gz-cosi-expand-archive-dZnguN3v/threads-shared-1.43/shared.xs

```

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

=head1 NAME

threads::shared - Perl extension for sharing data structures between threads

=head1 VERSION

This document describes threads::shared version 1.43

## =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]);

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

{ lock(%hash); ... }

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

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

## =head1 DESCRIPTION

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

is used together with the L<threads> module.

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

=head1 EXPORT

The following functions are exported by this module: C<share>, C<shared\_clone>, C<is\_shared>, C<cond\_wait>, C<cond\_timedwait>, C<cond\_signal> and C<cond\_broadcast>

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

=head1 FUNCTIONS

=over 4

=item share VARIABLE

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

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

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

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

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

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

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

```
# Storing scalars
$var = 1;
$hash{'foo'} = 'bar';
$array[0] = 1.5;
```

```
# Storing shared refs
$var = \%hash;
```

```

$hash{'ary'} = \@array;
$array[1] = \$var;

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

```

=item shared\_clone REF

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

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

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

```

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

```

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

```

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

```

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

```
$threads::shared::clone_warn = 1;
```

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

```
$threads::shared::clone_warn = 0;
```

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

=item is\_shared VARIABLE

C<is\_shared> checks if the specified variable is shared or not. If shared, returns the variable's internal ID (similar to L<refaddr()|Scalar::Util/"refaddr EXPR">). Otherwise, returns C<undef>.

```
if (is_shared($var)) {
```

```

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

```

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

```

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

```

```

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

```

=item lock VARIABLE

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

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

```

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

```

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

```

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

```

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

You cannot lock the individual elements of a container variable:

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

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

=item cond\_wait VARIABLE

=item cond\_wait CONDVAR, LOCKVAR

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

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

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

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

=item cond\_timedwait VARIABLE, ABS\_TIMEOUT

=item cond\_timedwait CONDVAR, ABS\_TIMEOUT, LOCKVAR

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

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

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

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

=item cond\_signal VARIABLE

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

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

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

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

=item cond\_broadcast VARIABLE

The C<cond\_broadcast> function works similarly to C<cond\_signal>. C<cond\_broadcast>, though, will unblock B<all> the threads that are blocked in a C<cond\_wait> on the locked variable, rather than only one.

=back

=head1 OBJECTS

L<threads::shared> exports a version of L<bless()|perlfunc/"bless REF"> that works on shared objects such that I<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 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.)

It is often not wise to share an object unless the class itself has been written to support sharing. For example, an object's destructor may get called multiple times, once for each thread's scope exit. Another danger 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<< \$hashref->{key} >> or C<< \$arrayref->[idx] >> is B<not> shared, causing the error "lock can only be used on shared values" to occur when you attempt to C<< lock(\$hashref->{key}) >> or C<< lock(\$arrayref->[idx]) >> in another thread.

Using L<refaddr()|Scalar::Util/"refaddr EXPR"> 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 L<dualvar() from Scalar::Util|Scalar::Util/"dualvar NUM, STRING">. 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

L<threads::shared> Discussion Forum on CPAN:  
L<<http://www.cpanforum.com/dist/threads-shared>>

L<threads>, L<perlthrtut>

L<<http://www.perl.com/pub/a/2002/06/11/threads.html>> and  
L<<http://www.perl.com/pub/a/2002/09/04/threads.html>>

Perl threads mailing list:

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

=head1 AUTHOR

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

Documentation borrowed from the old Thread.pm.

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

=head1 LICENSE

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

=cut

Found in path(s):

\* /opt/cola/permits/1000848935\_1646171523.39/0/perl-threads-shared-1.43-6.el7.src.rpm-cosi-expand-archive-XIsbALc3/threads-shared-1.43.tar.gz-cosi-expand-archive-dZnguN3v/threads-shared-1.43/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 6.64, 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: threads-shared

no\_index:

directory:

- t

- inc

requires:

Carp: 0

Config: 0

ExtUtils::testlib: 0

Scalar::Util: 0

Test: 0

Test::More: 0

XSLoader: 0  
strict: 0  
threads: 1.73  
warnings: 0  
version: 1.43

Found in path(s):

\* /opt/cola/permits/1000848935\_1646171523.39/0/perl-threads-shared-1.43-6.el7.src.rpm-cosi-expand-archive-XIsbALc3/threads-shared-1.43.tar.gz-cosi-expand-archive-dZnguN3v/threads-shared-1.43/META.yml

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

Copyright 2006 - 2009 Jerry D. Hedden. All rights reserved.

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

Found in path(s):

\* /opt/cola/permits/1000848935\_1646171523.39/0/perl-threads-shared-1.43-6.el7.src.rpm-cosi-expand-archive-XIsbALc3/threads-shared-1.43.tar.gz-cosi-expand-archive-dZnguN3v/threads-shared-1.43/examples/class.pl

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

/\*

-----

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

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

Do NOT edit this file directly! -- Edit PPPport\_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

<code>--help</code>	show short help
<code>--version</code>	show version
<code>--patch=file</code>	write one patch file with changes
<code>--copy=suffix</code>	write changed copies with suffix
<code>--diff=program</code>	use diff program and options
<code>--compat-version=version</code>	provide compatibility with Perl version
<code>--cplusplus</code>	accept C++ comments
<code>--quiet</code>	don't output anything except fatal errors
<code>--nodiag</code>	don't show diagnostics
<code>--nohints</code>	don't show hints
<code>--nochanges</code>	don't suggest changes
<code>--nofilter</code>	don't filter input files
<code>--strip</code>	strip all script and doc functionality from ppport.h
<code>--list-provided</code>	list provided API
<code>--list-unsupported</code>	list unsupported API
<code>--api-info=name</code>	show Perl API portability information

## =head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.10.0.

## =head1 OPTIONS

### =head2 --help

Display a brief usage summary.

### =head2 --version

Display the version of F<ppport.h>.

### =head2 --patch=I<file>

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

### =head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with

the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

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

```
=head2 --diff=I<program>
```

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

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

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

```
=head2 --cplusplus
```

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

```
=head2 --quiet
```

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

```
=head2 --nodiag
```

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

```
=head2 --nohints
```

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

```
=head2 --nochanges
```

Don't suggest any changes. Only give diagnostic output and hints

unless these are also deactivated.

=head2 --nofilter

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

=head2 --strip

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

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

=head2 --list-provided

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

=head2 --list-unsupported

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

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

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

=head1 DESCRIPTION

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

=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 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.

Function / Variable	Static Request	Global Request
PL_parser	NEED_PL_parser	NEED_PL_parser_GLOBAL
PL_signals	NEED_PL_signals	NEED_PL_signals_GLOBAL
eval_pv()	NEED_eval_pv	NEED_eval_pv_GLOBAL
grok_bin()	NEED_grok_bin	NEED_grok_bin_GLOBAL



grok_hex()	NEED_grok_hex	NEED_grok_hex_GLOBAL
grok_number()	NEED_grok_number	NEED_grok_number_GLOBAL
grok_numeric_radix()	NEED_grok_numeric_radix	NEED_grok_numeric_radix_GLOBAL
grok_oct()	NEED_grok_oct	NEED_grok_oct_GLOBAL
load_module()	NEED_load_module	NEED_load_module_GLOBAL
my_snprintf()	NEED_my_snprintf	NEED_my_snprintf_GLOBAL
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_pv_pretty	NEED_pv_pretty_GLOBAL
sv_2pv_flags()	NEED_sv_2pv_flags	NEED_sv_2pv_flags_GLOBAL
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
warn()	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<newSVpv> function, use:

```
perl ppport.h --api-info=newSVpv
```

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::PPPport> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPport> 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::PPPport> 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::PPPport>.

=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 $rcs = quotemeta $ccs;  
my $rce = 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  
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|||  
HEf\_SVKEY||5.004000|  
HeHASH||5.004000|  
HeKEY||5.004000|  
HeKLEN||5.004000|  
HePV||5.004000|  
HeSVKEY\_force||5.004000|  
HeSVKEY\_set||5.004000|  
HeSVKEY||5.004000|  
HeUTF8||5.011000|  
HeVAL||5.004000|  
HvNAMELEN\_get|5.009003||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\_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|||  
LVRET|||  
MARK|||  
MULTICALL||5.011000|  
MY\_CXT\_CLONE|5.009002||p  
MY\_CXT\_INIT|5.007003||p  
MY\_CXT|5.007003||p  
MoveD|5.009002||p  
Move|||  
NOOP|5.005000||p  
NUM2PTR|5.006000||p  
NVTYPE|5.006000||p  
NVef|5.006001||p  
NVff|5.006001||p  
NVgf|5.006001||p  
Newxc|5.009003||p  
Newxz|5.009003||p  
Newx|5.009003||p  
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\_SVI|||

PAD\_SV|||  
PERLIO\_FUNCS\_CAST|5.009003||p  
PERLIO\_FUNCS\_DECL|5.009003||p  
PERL\_ABS|5.008001||p  
PERL\_BCDVERSION|5.011000||p  
PERL\_GCC\_BRACE\_GROUPS\_FORBIDDEN|5.008001||p  
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  
PERL\_MAGIC\_arylen|5.007002||p  
PERL\_MAGIC\_backref|5.007002||p  
PERL\_MAGIC\_bm|5.007002||p  
PERL\_MAGIC\_collxfrm|5.007002||p  
PERL\_MAGIC\_dbfile|5.007002||p  
PERL\_MAGIC\_dbline|5.007002||p  
PERL\_MAGIC\_defelem|5.007002||p  
PERL\_MAGIC\_envelem|5.007002||p  
PERL\_MAGIC\_env|5.007002||p  
PERL\_MAGIC\_ext|5.007002||p  
PERL\_MAGIC\_fm|5.007002||p  
PERL\_MAGIC\_glob|5.011000||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\_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  
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\_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  
PERL\_PV\_PRETTY\_QUOTE|5.009004||p  
PERL\_PV\_PRETTY\_REGPROP|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\_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|5.011000|p  
PL\_bufptr|5.011000|p  
PL\_compiling|5.004050|p  
PL\_copline|5.011000|p  
PL\_curcop|5.004050|p  
PL\_curstash|5.004050|p  
PL\_debstash|5.004050|p  
PL\_defgv|5.004050|p  
PL\_diehook|5.004050|p  
PL\_dirty|5.004050|p  
PL\_dowarn||pn  
PL\_errgv|5.004050|p  
PL\_error\_count|5.011000|p  
PL\_expect|5.011000|p  
PL\_hexdigit|5.005000|p  
PL\_hints|5.005000|p  
PL\_in\_my\_stash|5.011000|p  
PL\_in\_my|5.011000|p  
PL\_last\_in\_gv||n  
PL\_laststatval|5.005000|p  
PL\_lex\_state|5.011000|p  
PL\_lex\_stuff|5.011000|p  
PL\_linestr|5.011000|p  
PL\_modglobal||5.005000|n  
PL\_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\_rsfilters|5.004050|p  
PL\_rsfpl|5.004050|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|5.011000|p  
POP\_MULTICALL||5.011000|  
POPi|||n  
POPl|||n  
POPn|||n  
POPpbytex||5.007001|n  
POPpx||5.005030|n  
POPp|||n  
POPs|||n  
PTR2IV|5.006000|p  
PTR2NV|5.006000|p  
PTR2UV|5.006000|p  
PTR2nat|5.009003|p  
PTR2ul|5.007001|p  
PTRV|5.006000|p  
PUSHMARK||  
PUSH\_MULTICALL||5.011000|  
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\_ptrcnt||5.007003|  
PerlIO\_setlinebuf||5.007003|  
PerlIO\_stderr||5.007003|  
PerlIO\_stdin||5.007003|  
PerlIO\_stdout||5.007003|  
PerlIO\_tell||5.007003|  
PerlIO\_unread||5.007003|  
PerlIO\_write||5.007003|  
Perl\_signbit||5.009005|n

PoisonFree|5.009004||p  
PoisonNew|5.009004||p  
PoisonWith|5.009004||p  
Poison|5.008000||p  
RETVAl||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  
STR\_WITH\_LEN|5.009003||p  
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\_IV||  
SVt\_NV||  
SVt\_PVAV||  
SVt\_PVCV||  
SVt\_PVHV||  
SVt\_PVMG||  
SVt\_PV||  
Safefree||  
Slab\_Alloc||  
Slab\_Free||  
Slab\_to\_rw||  
StructCopy||  
SvCUR\_set||  
SvCUR||  
SvEND||

SvGAMAGIC|5.006001|  
SvGETMAGIC|5.004050|p  
SvGROW|||  
SvIOK\_UV|5.006000|  
SvIOK\_notUV|5.006000|  
SvIOK\_off|||  
SvIOK\_only\_UV|5.006000|  
SvIOK\_only|||  
SvIOK\_on|||  
SvIOKp|||  
SvIOK|||  
SvIVX|||  
SvIV\_nomg|5.009001|p  
SvIV\_set|||  
SvIVx|||  
SvIV|||  
SvIsCOW\_shared\_hash|5.008003|  
SvIsCOW|5.008003|  
SvLEN\_set|||  
SvLEN|||  
SvLOCK|5.007003|  
SvMAGIC\_set|5.009003|p  
SvNIOK\_off|||  
SvNIOKp|||  
SvNIOK|||  
SvNOK\_off|||  
SvNOK\_only|||  
SvNOK\_on|||  
SvNOKp|||  
SvNOK|||  
SvNVX|||  
SvNV\_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|5.009003||p  
SvPV\_set|||  
SvPVbyte\_force||5.009002|  
SvPVbyte\_nolen||5.006000|  
SvPVbytex\_force||5.006000|  
SvPVbytex||5.006000|  
SvPVbyte|5.006000||p  
SvPVutf8\_force||5.006000|  
SvPVutf8\_nolen||5.006000|  
SvPVutf8x\_force||5.006000|  
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unpackstring||5.008001|  
unshare\_hek\_or\_pvn||  
unshare\_hek||  
unsharepvn||5.004000|  
unwind\_handler\_stack||  
update\_debugger\_info||  
upg\_version||5.009005|  
usage||  
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|  
vcroak|5.006000|  
vdeb|5.007003|  
vdie\_common||  
vdie\_croak\_common||  
vdie||  
vform|5.006000|  
visit||  
vivify\_defelem||  
vivify\_ref||  
vload\_module|5.006000|p  
vmess|5.006000|  
vnewSVpvf|5.006000|5.004000|p  
vnormal|5.009002|  
vnumify|5.009000|  
vstringify|5.009000|  
vverify|5.009003|  
vwarner|5.006000|  
vwarn|5.006000|  
wait4pid||  
warn\_nocontext||vn  
warner\_nocontext||vn  
warner|5.006000|5.004000|pv  
warn||v  
watch||  
whichsig||  
write\_no\_mem||  
write\_to\_stderr||  
xmldump\_all||  
xmldump\_attr||  
xmldump\_eval||  
xmldump\_form||  
xmldump\_indent||v  
xmldump\_packsubs||  
xmldump\_sub||  
xmldump\_vindent||  
yyerror||  
yylex||  
yyparse||  
yywarn||  
);

```

if (exists $opt{'list-unsupported'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};
        print "$f ", 'x'(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
    }
    exit 0;
}

```

# Scan for possible replacement candidates

```

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

```

```

sub find_api
{
    my $code = shift;
    $code =~ s{
        /(?: \^[^*]*\*(?:\^[^$ccs][^*]*\*)* / | /[\r\n]*
        | "[^"\\]*(?:\\.[^"\\]*)*"
        | '[^'\\]*(?:\\.[^'\\]*)*' }{ }egsx;
    grep { exists $API{$_} } $code =~ /(\w+)/mg;
}

```

```

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

```

```

$hint = [$1, [split /,?\s+/, $2]]
    if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,\s+\w+)*)\s*$};

```

```

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

```

```

}
undef $define;
}
}

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

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

$function = [$1, ""] if m{^DPPP_(my_(\w+))};

$replace = $1 if m{^\s*$rcce\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+).*rcce\s+Replace\s+$rcce};
$replace{$1} = $2 if m{^\s*$rcce\s+Replace (\w+) with (\w+)\s+$rcce\s*$};

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

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

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

if (exists $opt{'api-info'}) {
  my $f;
  my $count = 0;
  my $match = $opt{'api-info'} =~ m!^(.*)/#! ? $1 : "\Q$opt{'api-info'}\E$";
  for $f (sort { lc $a cmp lc $b } keys %API) {

```



```

next unless $f =~ /$match/;
print "\n=== $f ===\n\n";
my $info = 0;
if ($API{$f}{base} || $API{$f}{todo}) {
    my $base = format_version($API{$f}{base} || $API{$f}{todo});
    print "Supported at least starting from perl-$base.\n";
    $info++;
}
if ($API{$f}{provided}) {
    my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
    print "Support by $ppport provided back to perl-$todo.\n";
    print "Support needs to be explicitly requested by NEED_{$f}.\n" if exists $need{$f};
    print "Depends on: ", join(', ', @{$depends{$f}}), ".\n" if exists $depends{$f};
    print "\n$hints{$f}" if exists $hints{$f};
    print "\nWARNING:\n$warnings{$f}" if exists $warnings{$f};
    $info++;
}
print "No portability information available.\n" unless $info;
$count++;
}
$count or print "Found no API matching '$opt{api-info}':.";
print "\n";
exit 0;
}

if (exists $opt{'list-provided'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{provided};
        my @flags;
        push @flags, 'explicit' if exists $need{$f};
        push @flags, 'depend' if exists $depends{$f};
        push @flags, 'hint' if exists $hints{$f};
        push @flags, 'warning' if exists $warnings{$f};
        my $flags = @flags ? ' [' . join(', ', @flags) . '] : ';
        print "$f$flags\n";
    }
    exit 0;
}

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

if (@ARGV) {
    my %seen;
    for (@ARGV) {
        if (-e) {

```

```

if (-f) {
    push @files, $_ unless $seen{$_}++;
}
else { warn "'$_' is not a file.\n" }
}
else {
    my @new = grep { -f } glob $_
        or warn "'$_' does not exist.\n";
    push @files, grep { !$seen{$_}++ } @new;
}
}
}
else {
    eval {
        require File::Find;
        File::Find::find(sub {
            $File::Find::name =~ /($srcext)$/i
                and push @files, $File::Find::name;
        }, '.');
    };
    if ($@) {
        @files = map { glob ".*$_" } @srcext;
    }
}

if (!@ARGV || $opt{filter}) {
    my(@in, @out);
    my %xsc = map { /(.*)\.xs$/ ? ("1.c" => 1, "1.cc" => 1) : () } @files;
    for (@files) {
        my $out = exists $xsc{$_} || /\bQ$ppport\E$/i || !/($srcext)$/i;
        push @{$out ? \@out : \@in }, $_;
    }
    if (@ARGV && @out) {
        warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
    }
    @files = @in;
}

die "No input files given!\n" unless @files;

my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;

for $filename (@files) {
    unless (open IN, "<$filename") {
        warn "Unable to read from $filename: $!\n";
    }
}

```

```

next;
}

info("Scanning $filename ...");

my $c = do { local $/; <IN> };
close IN;

my %file = (orig => $c, changes => 0);

# Temporarily remove C/XS comments and strings from the code
my @ccom;

$c =~ s{
  ( ^$HS*\#$HS*include\b[^\r\n]+\b(?:Q$ppport\E|XSUB\.h)\b[^\r\n]*
  | ^$HS*\#$HS*(?:define|elif|if(?:def?))\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
  | "[^"\\]*(?:\\.[^"\\])*"
  | '[^"\\]*(?:\\.[^"\\])*'
  | /(?:\*[^\*]*\*+(?:[^\$ccs][^\*]*\*+)* /|/^\r\n)* )
}{ defined $2 and push @ccom, $2;
  defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;

$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*\#$HS*include[^\r\n]+\bQ$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/) {
    $file{uses_replace}{$func}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
    $file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
    if (exists $API{$func}{provided}) {
      $file{uses_provided}{$func}++;
      if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
        $file{uses}{$func}++;
        my @deps = rec_depend($func);
        if (@deps) {
          $file{uses_deps}{$func} = \@deps;
          for (@deps) {
            $file{uses}{$_} = 0 unless exists $file{uses}{$_};
          }
        }
      }
    }
    for ($func, @deps) {
      $file{needs}{$_} = 'static' if exists $need{$_};
    }
  }
}

```

```

    }
  }
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
  if ($c =~ /\b$func\b/) {
    $file{uses_todo}{$func}++;
  }
}
}
}
}

while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL?))\b/mg) {
  if (exists $need{$2}) {
    $file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
  }
  else { warning("Possibly wrong #define $1 in $filename") }
}

for (qw(uses needs uses_todo needed_global needed_static)) {
  for $func (keys %{$file{$_}}) {
    push @{$global{$_}{$func}}, $filename;
  }
}

$files{$filename} = \%file;
}

# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
  if (@{$global{needs}{$need}} > 1) {
    my @targets = @{$global{needs}{$need}};
    my @t = grep $files{$_}{needed_global}{$need}, @targets;
    @targets = @t if @t;
    @t = grep /\.xs$/i, @targets;
    @targets = @t if @t;
    my $target = shift @targets;
    $files{$target}{needs}{$need} = 'global';
    for (@{$global{needs}{$need}}) {
      $files{$_}{needs}{$need} = 'extern' if $_ ne $target;
    }
  }
}

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

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

```

```

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

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

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

for $func (sort keys %{$file{uses_provided}}) {
  if ($file{uses}{$func}) {
    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);
  }
}

$file{needs_inc_ppport} = keys % {$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 $cpc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
  if (!$opt{cplusplus} && $ccom[$ix] =~ s!^/!!) {
    $cpc++;
    $file{changes} += $c =~ s/$rcs$ix$rcce/$ccs$ccom[$ix] $cce/;
  }
  else {
    $c =~ s/$rcs$ix$rcce/$ccom[$ix]/;
  }
}

if ($cpc) {
  my $s = $cpc != 1 ? 's' : '';
  warning("Uses $cpc C++ style comment$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 !${$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
}

sub parse_version
{
my $ver = shift;

if ($ver =~ /\^(d+)\.(d+)\.(d+)$/) {

```

```

    return ($1, $2, $3);
}
elseif ($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/^\s* /mg;
    print " --- hint for $func ---\n", $hint;
  }
  $rv;
}

sub usage
{
  my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
  my %M = ( 'T' => '*' );

```

```
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([>]+)>/$M{$1}$2$M{$1}/g;
```

```
print <<ENDUSAGE;
```

Usage: \$usage

See perldoc \$0 for details.

ENDUSAGE

```
exit 2;
}
```

```
sub strip
```

```
{
my $self = do { local(@ARGV,$/)=($0); <> };
my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)*^=\w+\/ms;
$copy =~ s/^(?=\S+)/ /gms;
$self =~ s/^\$HS+Do NOT edit.*?(?=-)/$copy/ms;
$self =~ s/^\$SKIP.*(?=__DATA__)/SKIP
if (\@ARGV && \$_[0] eq '--unstrip') {
eval { require Devel::PPPport };
\$_ and die "Cannot require Devel::PPPport, please install.\n";
if (eval \$_Devel::PPPport::VERSION < \$_VERSION) {
die "\$_ was originally generated with Devel::PPPport \$_VERSION.\n"
. "Your Devel::PPPport is only version \$_Devel::PPPport::VERSION.\n"
. "Please install a newer version, or --unstrip will not work.\n";
}
Devel::PPPport::WriteFile(\$_);
exit 0;
}
print <<END;
```

Sorry, but this is a stripped version of \\$\_.

To be able to use its original script and doc functionality,  
please try to regenerate this file using:

```
\$^X \$_ --unstrip
```

```
END
```

```
/ms;
my($pl, $c) = $self =~ /(.*__DATA__)(.*)/ms;
$c =~ s{
/ (? : \*[^\*]*\*+(?:[^\$ccs][^\*]*\*+)* / | [^\r\n]*
| ( "[^"]\*"(?:\\.["\\"])*"
| '[^']*'(?:\\.["\\"])*' )

```

```
| ($HS+) ){ defined $2 ? ' ' : ($1 || " ) }gsex;
$c =~ s!\s+$!!mg;
$c =~ s!^\$LF!!mg;
$c =~ s!\s*#\s*!#!mg;
$c =~ s!\s+!!mg;
```

```
open OUT, ">$0" or die "cannot strip $0: $!\n";
print OUT "$pl$c\n";
```

```
exit 0;
}
```

```
__DATA__
*/
```

Found in path(s):

```
* /opt/cola/permits/1000848935_1646171523.39/0/perl-threads-shared-1.43-6.el7.src.rpm-cosi-expand-archive-
XIsbALc3/threads-shared-1.43.tar.gz-cosi-expand-archive-dZnguN3v/threads-shared-1.43/ppport.h
```

## 1.2 axis2-transport-http 1.5.6

### 1.2.1 Available under license :

```
=====
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```

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## 1.3 libssh2 1.8.0-4.el7

### 1.3.1 Available under license :

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 \*/

## 1.4 perl-storable 2.45-3.el7

### 1.4.1 Available under license :

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\* /opt/cola/permits/1000848947\_1646171517.14/0/perl-Storable-2.45-3.el7.src.rpm-cosi-expand-archive-gMrYpE99/perl-Storable.spec

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Storable 2.14

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-----  
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 -----

+=====

| Storable is distributed as a module, but is also part of the official  
 | Perl core distribution, as of perl 5.8.  
 | Maintenance is now done by the perl5-porters. 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 the perl5-porters <perl5-porters@perl.org>

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):

Jarkko Hietaniemi <jhi@iki.fi>  
Ulrich Pfeifer <pfeifer@charly.informatik.uni-dortmund.de>  
Benjamin A. Holzman <bholzman@earthlink.net>  
Andrew Ford <A.Ford@ford-mason.co.uk>  
Gisle Aas <gisle@aas.no>  
Jeff Gresham <gresham\_jeffrey@jpmorgan.com>  
Murray Nesbitt <murray@activestate.com>  
Albert N. Micheev <Albert.N.Micheev@f80.n5049.z2.fidonet.org>  
Marc Lehmann <pcg@opengroup.org>  
Justin Banks <justinb@wamnet.com>  
Jarkko Hietaniemi <jhi@iki.fi> (AGAIN, as perl 5.7.0 Pumpkin!)

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](mailto:Raphael_Manfredi@pobox.com)>

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

Abhijit Menon-Sen <[ams@wiw.org](mailto:ams@wiw.org)>  
Andreas J. Koenig <[andreas.koenig@anima.de](mailto:andreas.koenig@anima.de)>  
Archer Sully <[archer@meer.net](mailto:archer@meer.net)>  
Craig A. Berry <[craig.berry@psinetcs.com](mailto:craig.berry@psinetcs.com)>  
Dan Kogai <[dankogai@dan.co.jp](mailto:dankogai@dan.co.jp)>  
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Peter Prymmer <[pvhp@forte.com](mailto:pvhp@forte.com)>  
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Raphael Manfredi <[Raphael\\_Manfredi@pobox.com](mailto:Raphael_Manfredi@pobox.com)>  
Robin Barker <[rmb1@cise.npl.co.uk](mailto:rmb1@cise.npl.co.uk)>  
Radu Greab <[radu@netsoft.ro](mailto:radu@netsoft.ro)>  
Tim Bunce <[Tim.Bunce@pobox.com](mailto:Tim.Bunce@pobox.com)>  
VMSperlrs  
Yitzchak Scott-Thoennes <[sthoenna@efn.org](mailto:sthoenna@efn.org)>

If I've missed you out, please accept my apologies, and e-mail your patch to [perl5-porters@perl.org](mailto:perl5-porters@perl.org).

Found in path(s):

\* /opt/cola/permits/1000848947\_1646171517.14/0/perl-Storable-2.45-3.el7.src.rpm-cosi-expand-archive-gMrYpE99/Storable-2.45.tar.gz-cosi-expand-archive-nc4LuAZO/Storable-2.45/README

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=back

=head1 NOTES

Test::More is B<explicitly> tested all the way back to perl 5.004.

Test::More is thread-safe for perl 5.8.0 and up.

=head1 BUGS and CAVEATS

=over 4

=item Making your own ok()

If you are trying to extend Test::More, don't. Use Test::Builder instead.

=item The eq\_\* family has some caveats.

=item Test::Harness upgrades

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.

If you simply depend on Test::More, it's own dependencies will cause a Test::Harness upgrade.

=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::Differences> for more ways to test complex data structures.  
And it plays well with Test::More.

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::Unit> describes a very featureful unit testing interface.

L<Test::Inline> shows the idea of embedded testing.

L<SelfTest> is another approach to embedded testing.

=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, chromatic and the perl-qa gang.

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=cut

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gMrYpE99/Storable-2.45.tar.gz-cosi-expand-archive-nc4LuAZO/Storable-2.45/t/compat/Test/More.pm  
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gMrYpE99/Storable-2.45.tar.gz-cosi-expand-archive-nc4LuAZO/Storable-2.45/t/forgive.t  
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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
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) and 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.

=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.

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=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.

=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  
E<lt>schwern@pobox.comE<gt>

=head1 COPYRIGHT

Copyright 2002 by chromatic E<lt>chromatic@wgz.orgE<gt>,  
Michael G Schwern E<lt>schwern@pobox.comE<gt>.

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):

\* /opt/cola/permits/1000848947\_1646171517.14/0/perl-Storable-2.45-3.el7.src.rpm-cosi-expand-archive-gMrYpE99/Storable-2.45.tar.gz-cosi-expand-archive-nc4LuAZO/Storable-2.45/t/compat/Test/Builder.pm  
No license file was found, but licenses were detected in source scan.

/\*

-----

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

Automatically created by Devel::PPPort running under perl 5.012003.

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.

```
=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::PPPport> 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 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.

Function / Variable	Static Request	Global Request
PL_parser	NEED_PL_parser	NEED_PL_parser_GLOBAL
PL_signals	NEED_PL_signals	NEED_PL_signals_GLOBAL
eval_pv()	NEED_eval_pv	NEED_eval_pv_GLOBAL
grok_bin()	NEED_grok_bin	NEED_grok_bin_GLOBAL
grok_hex()	NEED_grok_hex	NEED_grok_hex_GLOBAL
grok_number()	NEED_grok_number	NEED_grok_number_GLOBAL
grok_numeric_radix()	NEED_grok_numeric_radix	NEED_grok_numeric_radix_GLOBAL
grok_oct()	NEED_grok_oct	NEED_grok_oct_GLOBAL
load_module()	NEED_load_module	NEED_load_module_GLOBAL
my_snprintf()	NEED_my_snprintf	NEED_my_snprintf_GLOBAL
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
newSVpv_flags()	NEED_newSVpv_flags	NEED_newSVpv_flags_GLOBAL
newSVpv_share()	NEED_newSVpv_share	NEED_newSVpv_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_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
warn()	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<newSVpv<pv>> function, use:

```
perl ppport.h --api-info=newSVpv
```

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::PPP<Port>> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPP<Port>> 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::PPort> 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::PPort>.

=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 $rcs = quotemeta $ccs;
my $rce = 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
FREEMPS|||
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|||  
HEf\_SVKEY|5.004000|  
HeHASH|5.004000|  
HeKEY|5.004000|  
HeKLEN|5.004000|  
HePV|5.004000|  
HeSVKEY\_force|5.004000|  
HeSVKEY\_set|5.004000|  
HeSVKEY|5.004000|  
HeUTF8|5.011000|  
HeVAL|5.004000|  
HvNAMELEN\_get|5.009003||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\_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|||  
LVRET|||  
MARK|||  
MULTICALL|5.011000|  
MY\_CXT\_CLONE|5.009002||p  
MY\_CXT\_INIT|5.007003||p  
MY\_CXT|5.007003||p  
MoveD|5.009002||p  
Move|||  
NOOP|5.005000||p  
NUM2PTR|5.006000||p  
NVTYPE|5.006000||p  
NVef|5.006001||p  
NVff|5.006001||p  
NVgf|5.006001||p  
Newxc|5.009003||p  
Newxz|5.009003||p  
Newx|5.009003||p  
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\_SV1|||  
PAD\_SV|||  
PERLIO\_FUNCS\_CAST|5.009003|p  
PERLIO\_FUNCS\_DECL|5.009003|p  
PERL\_ABS|5.008001|p  
PERL\_BCDVERSION|5.011000|p  
PERL\_GCC\_BRACE\_GROUPS\_FORBIDDEN|5.008001|p  
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  
PERL\_MAGIC\_arylen|5.007002|p  
PERL\_MAGIC\_backref|5.007002|p  
PERL\_MAGIC\_bm|5.007002|p  
PERL\_MAGIC\_collxfrm|5.007002|p  
PERL\_MAGIC\_dbfile|5.007002|p  
PERL\_MAGIC\_dbline|5.007002|p  
PERL\_MAGIC\_defelem|5.007002|p  
PERL\_MAGIC\_envelem|5.007002|p  
PERL\_MAGIC\_env|5.007002|p  
PERL\_MAGIC\_ext|5.007002|p  
PERL\_MAGIC\_fm|5.007002|p  
PERL\_MAGIC\_glob|5.011000|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\_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  
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\_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  
PERL\_PV\_PRETTY\_QUOTE|5.009004||p  
PERL\_PV\_PRETTY\_REGPROP|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\_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|5.011000||p  
PL\_bufptr|5.011000||p  
PL\_compiling|5.004050||p  
PL\_copline|5.011000||p  
PL\_curcop|5.004050||p  
PL\_curstash|5.004050||p  
PL\_debstash|5.004050||p  
PL\_defgv|5.004050||p  
PL\_diehook|5.004050||p  
PL\_dirty|5.004050||p  
PL\_dowarn|||pn  
PL\_errgv|5.004050||p  
PL\_error\_count|5.011000||p  
PL\_expect|5.011000||p  
PL\_hexdigit|5.005000||p  
PL\_hints|5.005000||p  
PL\_in\_my\_stash|5.011000||p  
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sv\_pos\_u2b\_cached|||  
sv\_pos\_u2b\_forwards|||n  
sv\_pos\_u2b\_midway|||n  
sv\_pos\_u2b|5.006000|  
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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  
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sv\_setpvf\_mg|5.006000|5.004000|pv  
sv\_setpvf\_nocontext|||vn  
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sv\_setpviv||5.008001|  
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sv\_setref\_nv||  
sv\_setref\_pvn||  
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sv\_setsv\_cow||  
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sv\_setsv\_mg|5.004050||p  
sv\_setsv\_nomg|5.007002||p  
sv\_setsv||  
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```

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xmldump_packsubs|||
xmldump_sub|||
xmldump_vindent|||
yyerror|||
yylex|||
yyparse|||
yywarn|||
);

if (exists $opt{'list-unsupported'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};
        print "$f ", 'x'(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
    }
    exit 0;
}

# Scan for possible replacement candidates

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

sub find_api
{
    my $code = shift;
    $code =~ s{
        /(?: \*[^*]*\*+(?:[^\$ccs][^*]*\*+)* /|/^\r\n*)
        | "[^"\\]*(?:\\.["\\"])*"
        | '[^'\\]*(?:\\.['\\'])*' }{ }egsx;
    grep { exists $API{$_} } $code =~ /(\w+)/mg;
}

while (<DATA>) {
    if ($hint) {

```

```

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

$hint = [$1, [split /,?\s+/, $2]]
  if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,\s+\w+)*)\s*$};

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

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

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

$function = [$1, ""] if m{^DPPP_(my_(\w+))};

$replace = $1 if m{^\s*$rccs\s+Replace:\s+(\d+)\s+$rccs\s*$};
$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+$rccs};
$replace{$1} = $2 if m{^\s*$rccs\s+Replace (\w+) with (\w+)\s+$rccs\s*$};

```



```

if (m{^\s*$rccs\s+(\w+(\s*,\s*\w+*)\s+depends\s+on\s+(\w+(\s*,\s*\w+*)\s+$rcces*$)} {
    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+defined\((NEED_\w+)(?:_GLOBAL)?\)};
}

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

if (exists $opt{'api-info'}) {
    my $f;
    my $count = 0;
    my $match = $opt{'api-info'} =~ m!^(.*)/#! ? $1 : "\Q$opt{'api-info'}\E\$";
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $f =~ /$match/;
        print "\n=== $f ===\n\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_$. \n" if exists $need{$f};
            print "Depends on: ", join(', ', @{$depends{$f}}), ". \n" if exists $depends{$f};
            print "\n$hints{$f}" if exists $hints{$f};
            print "\nWARNING:\n$warnings{$f}" if exists $warnings{$f};
            $info++;
        }
        print "No portability information available.\n" unless $info;
        $count++;
    }
    $count or print "Found no API matching '$opt{'api-info'}'.";
    print "\n";
    exit 0;
}

if (exists $opt{'list-provided'}) {
    my $f;

```

```

for $f (sort { lc $a cmp lc $b } keys %API) {
  next unless $API{$f}{provided};
  my @flags;
  push @flags, 'explicit' if exists $need{$f};
  push @flags, 'depend' if exists $depends{$f};
  push @flags, 'hint' if exists $hints{$f};
  push @flags, 'warning' if exists $warnings{$f};
  my $flags = @flags ? ' ['.join(', ', @flags).']' : "";
  print "$f$flags\n";
}
exit 0;
}

```

```

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

```

```

if (@ARGV) {
  my %seen;
  for (@ARGV) {
    if (-e) {
      if (-f) {
        push @files, $_ unless $seen{$_}++;
      }
      else { warn "'$_' is not a file.\n" }
    }
    else {
      my @new = grep { -f } glob $_
        or warn "'$_' does not exist.\n";
      push @files, grep { !$seen{$_}++ } @new;
    }
  }
}
else {
  eval {
    require File::Find;
    File::Find::find(sub {
      $File::Find::name =~ /($srcext)$/i
      and push @files, $File::Find::name;
    }, '.');
  };
  if ($?) {
    @files = map { glob "$*" } @srcext;
  }
}

```

```

if (!@ARGV || $opt{filter}) {
  my(@in, @out);

```

```

my %xsc = map { /(.*)\.xs$/ ? ("$.c" => 1, "$.cc" => 1) : () } @files;
for (@files) {
    my $out = exists $xsc{$_} || ^b\Q$ppport\E$/i || !/($srcext)$/i;
    push @ { $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
    warning("Skipping the following files (use --nofilter to avoid this):\n", join "\n", @out);
}
@files = @in;
}

```

die "No input files given!\n" unless @files;

```

my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;

```

```

for $filename (@files) {
    unless (open IN, "<$filename") {
        warn "Unable to read from $filename: $!\n";
        next;
    }
}

```

info("Scanning \$filename ...");

```

my $c = do { local $/; <IN> };
close IN;

```

```

my %file = (orig => $c, changes => 0);

```

```

# Temporarily remove C/XS comments and strings from the code
my @ccom;

```

```

$c =~ s{
    ( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E\XSUB\.h)\b[^\r\n]*
    | ^$HS*\#$HS*(?:define|elif|if(?:def?))\b[^\r\n]* )
    | ( ^$HS*\#[^\r\n]*
    | "[^"\\]*(?:\\.[^"\\])*"
    | '[^"\\]*(?:\\.[^"\\])*'
    | /(?:\[^\]*\*+(?:\[^\$ccs][^\]*\*+)* \| / [^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
    defined $1 ? $1 : "$ccs#$ccom$cc" }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} > $opt{'compat-version'}) {
            if ($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}) {
        my $changes = ($c =~ s{\b(Perl_?func\s*\s*(?!aTHX_?)\(\)[^\s]*\)}
          { $1 . ($2 eq ') ? 'aTHX' : 'aTHX_ ' ) . $2 }ge);
        if ($changes) {
          warning("Doesn't pass interpreter argument aTHX to Perl_?func");
          $file{changes} += $changes;
        }
      }
    }
  }
  else {
    warning("Uses Perl_?func instead of $func");
    $file{changes} += ($c =~ s{\bPerl_?func\s*\(\s*(\s*aTHX_?)?\s*}
      {$func$1()}g);
  }
}

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

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

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

  for $func (sort keys %{$file{needs}}) {
    my $type = $file{needs}{$func};
    next if $type eq 'extern';
    my $suffix = $type eq 'global' ? '_GLOBAL' : "";
    unless (exists $file{"needed_$type"}{$func}) {
      if ($type eq 'global') {
        diag("Files [@$global{needs}{$func}] need $func, adding global request");
      }
      else {
        diag("File needs $func, adding static request");
      }
      $pp .= "#define NEED_$func$suffix\n";
    }
  }
}

if ($pp && ($c =~ s/^(?=$HS*#\$HS*define$HS+NEED_\w+.*?)/$pp/m)) {
  $pp = "";
  $file{changes}++;
}

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

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

```

```

}
}

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

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

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

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("$newfile' already exists, refusing to write copy of '$filename'");
        }
        else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of '$filename' with changes to '$newfile'");
                print F $c;
                close F;
            }
            else {
                error("Cannot open '$newfile' for writing: $!");
            }
        }
    }
    elsif (exists $opt{patch} || $opt{changes}) {
        if (exists $opt{patch}) {
            unless ($patch_opened) {
                if (open PATCH, ">$opt{patch}") {

```



```

    $patch_opened = 1;
  }
  else {
    error("Cannot open '$opt{patch}' for writing: $!");
    delete $opt{patch};
    $opt{changes} = 1;
    goto fallback;
  }
}
mydiff(\*PATCH, $filename, $c);
}
else {
fallback:
  info("Suggested changes:");
  mydiff(\*STDOUT, $filename, $c);
}
}
else {
  my $s = $file{changes} == 1 ? " : 's'";
  info("$file{changes} potentially required change$s detected");
}
}
else {
  info("Looks good");
}
}

```

```
close PATCH if $patch_opened;
```

```
exit 0;
```

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

```
sub mydiff
```

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

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

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

```

+++ $file.patched
HEADER
}

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

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

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

print F $diff;
}

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

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

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

        if (open F, "$prog $file $tmp |") {
            while (<F>) {
                s/^Q$tmp\E/$file.patched/;
                $diff .= $_;
            }
            close F;
            unlink $tmp;
            return $diff;
        }

        unlink $tmp;
    }
    else {

```

```

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

return undef;
}

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

sub parse_version
{
    my $ver = shift;

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

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

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

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

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

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

sub format_version
{
    my $ver = shift;

```

```

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

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

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

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

    return $ver;
}

return sprintf "%d.%d.%d", $r, $v, $s;
}

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

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

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

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

my %given_hints;
my %given_warnings;
sub hint
{

```

```

$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
    my $warn = $warnings{$func};
    $warn =~ s/!*** !mg;
    print "*** WARNING: $func\n", $warn;
    $rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
    my $hint = $hints{$func};
    $hint =~ s/^/ /mg;
    print " --- hint for $func ---\n", $hint;
}
$rv;
}

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

    print <<ENDUSAGE;

Usage: $usage

See perldoc $0 for details.

ENDUSAGE

    exit 2;
}

sub strip
{
    my $self = do { local(@ARGV,$/)=($0); <> };
    my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^=\w+/ms;
    $copy =~ s/^(?=\S+)/ /gms;
    $self =~ s/^$HS+Do NOT edit.*?(?=-)/$copy/ms;
    $self =~ s/^SKIP.*(?:^__DATA__)/SKIP
if (\@ARGV && $ARGV[0] eq '--unstrip') {
    eval { require Devel::PPPport };
    \@ and die "Cannot require Devel::PPPport, please install.\n";
    if (eval $Devel::PPPport::VERSION < $VERSION) {
        die "$0 was originally generated with Devel::PPPport $VERSION.\n"
            . "Your Devel::PPPport is only version $Devel::PPPport::VERSION.\n"

```

```

    . "Please install a newer version, or --unstrip will not work.\n";
}
Devel::PPPport::WriteFile(\$0);
exit 0;
}
print <<END;

```

Sorry, but this is a stripped version of \\$0.

To be able to use its original script and doc functionality,  
please try to regenerate this file using:

```

\^X \$0 --unstrip

END
/ms;
my($pl, $c) = $self =~ /(.*__DATA__)(.*)/ms;
$c =~ s{
  /(?: \^[^*]*\*+(?:\^[^$ccs][^*]*\*+)* /|/[\r\n]*
| ("^"\\]*(?:\\.["\\])*"
| '^[^']*?' )
| ($HS+) }{ defined $2 ? ' ' : ($1 || " ) }gsex;
$c =~ s!\s+#!mg;
$c =~ s!$LF!mg;
$c =~ s!\s*#\s*#!mg;
$c =~ s!\s+!mg;

open OUT, ">$0" or die "cannot strip $0: $!\n";
print OUT "$pl$c\n";

exit 0;
}

__DATA__
*/

```

Found in path(s):

```

* /opt/cola/permits/1000848947_1646171517.14/0/perl-Storable-2.45-3.e17.src.rpm-cosi-expand-archive-
gMrYpE99/Storable-2.45.tar.gz-cosi-expand-archive-nc4LuAZO/Storable-2.45/ppport.h

```

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 6.68, CPAN::Meta::Converter version 2.112621'  
license: unknown  
meta-spec:  
url: <http://module-build.sourceforge.net/META-spec-v1.4.html>  
version: 1.4  
name: Storable  
no\_index:  
directory:  
- t  
- inc  
requires:  
XSLoader: 0  
resources:  
bugtracker: <http://rt.perl.org/perlbug/>  
version: 2.45

Found in path(s):

\* /opt/cola/permits/1000848947\_1646171517.14/0/perl-Storable-2.45-3.el7.src.rpm-cosi-expand-archive-gMrYpE99/Storable-2.45.tar.gz-cosi-expand-archive-nc4LuAZO/Storable-2.45/META.yml

# 1.5 perl-exporter 5.68-3.el7

## 1.5.1 Available under license :

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

### NAME

Exporter - Implements default import method for modules

### SYNOPSIS

In module YourModule.pm:

```
package YourModule;  
require Exporter;  
@ISA = qw(Exporter);  
@EXPORT_OK = qw(munge frobnicate); # symbols to export on request
```

or

```
package YourModule;  
use Exporter 'import'; # gives you Exporter's import() method directly  
@EXPORT_OK = qw(munge frobnicate); # symbols to export on request
```

In other files which wish to use "YourModule":

```
use YourModule qw(frobnicate); # import listed symbols
```

```
froblicate ($left, $right)    # calls YourModule::froblicate
```

Take a look at "Good Practices" for some variants you will like to use in modern Perl code.

## DESCRIPTION

The Exporter module implements an "import" method which allows a module to export functions and variables to its users' namespaces. Many modules use Exporter rather than implementing their own "import" method because Exporter provides a highly flexible interface, with an implementation optimised for the common case.

Perl automatically calls the "import" method when processing a "use" statement for a module. Modules and "use" are documented in perlfunc and perlmod. Understanding the concept of modules and how the "use" statement operates is important to understanding the Exporter.

## How to Export

The arrays @EXPORT and @EXPORT\_OK in a module hold lists of symbols that are going to be exported into the users name space by default, or which they can request to be exported, respectively. The symbols can represent functions, scalars, arrays, hashes, or typeglobs. The symbols must be given by full name with the exception that the ampersand in front of a function is optional, e.g.

```
@EXPORT    = qw(afunc $scalar @array); # afunc is a function
@EXPORT_OK = qw(&bfunc %hash *typeglob); # explicit prefix on &bfunc
```

If you are only exporting function names it is recommended to omit the ampersand, as the implementation is faster this way.

## Selecting What To Export

Do not export method names!

Do not export anything else by default without a good reason!

Exports pollute the namespace of the module user. If you must export try to use @EXPORT\_OK in preference to @EXPORT and avoid short or common symbol names to reduce the risk of name clashes.

Generally anything not exported is still accessible from outside the module using the "YourModule::item\_name" (or "\$blessed\_ref->method") syntax. By convention you can use a leading underscore on names to informally indicate that they are 'internal' and not for public use.

(It is actually possible to get private functions by saying:

```
my $subref = sub { ... };
```



```
$subref->(@args);    # Call it as a function
$obj->$subref(@args); # Use it as a method
```

However if you use them for methods it is up to you to figure out how to make inheritance work.)

As a general rule, if the module is trying to be object oriented then export nothing. If it's just a collection of functions then `@EXPORT_OK` anything but use `@EXPORT` with caution. For function and method names use barewords in preference to names prefixed with ampersands for the export lists.

Other module design guidelines can be found in `perlmod`.

## How to Import

In other files which wish to use your module there are three basic ways for them to load your module and import its symbols:

```
"use YourModule;"
```

This imports all the symbols from `YourModule`'s `@EXPORT` into the namespace of the "use" statement.

```
"use YourModule ();"
```

This causes perl to load your module but does not import any symbols.

```
"use YourModule qw(...);"
```

This imports only the symbols listed by the caller into their namespace. All listed symbols must be in your `@EXPORT` or `@EXPORT_OK`, else an error occurs. The advanced export features of `Exporter` are accessed like this, but with list entries that are syntactically distinct from symbol names.

Unless you want to use its advanced features, this is probably all you need to know to use `Exporter`.

## Advanced features

### Specialised Import Lists

If any of the entries in an import list begins with `!`, `:` or `/` then the list is treated as a series of specifications which either add to or delete from the list of names to import. They are processed left to right. Specifications are in the form:

```
[!]name      This name only
[!]:DEFAULT  All names in @EXPORT
[!]:tag      All names in $EXPORT_TAGS{tag} anonymous list
[!]/pattern/ All names in @EXPORT and @EXPORT_OK which match
```

A leading ! indicates that matching names should be deleted from the list of names to import. If the first specification is a deletion it is treated as though preceded by :DEFAULT. If you just want to import extra names in addition to the default set you will still need to include :DEFAULT explicitly.

e.g., Module.pm defines:

```
@EXPORT    = qw(A1 A2 A3 A4 A5);
@EXPORT_OK = qw(B1 B2 B3 B4 B5);
%EXPORT_TAGS = (T1 => [qw(A1 A2 B1 B2)], T2 => [qw(A1 A2 B3 B4)]);
```

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:

```
use Module qw(:DEFAULT :T2 !B3 A3);
```

Other examples include:

```
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., "/^EXIT/" rather than "/EXIT/".

You can say "BEGIN { \$Exporter::Verbose=1 }" to see how the specifications are being processed and what is actually being imported into modules.

Exporting without using Exporter's import method

Exporter has a special method, 'export\_to\_level' which is used in situations where you can't directly call Exporter's import method. The export\_to\_level method looks like:

```
MyPackage->export_to_level($where_to_export, $package, @what_to_export);
```

where \$where\_to\_export is an integer telling how far up the calling stack to export your symbols, and @what\_to\_export is an array telling what symbols \*to\* export (usually this is @\_). The \$package argument is currently unused.

For example, suppose that you have a module, A, which already has an import function:

```
package A;
```

```

@ISA = qw(Exporter);
@EXPORT_OK = qw ($b);

sub import
{
    $A::b = 1;  # not a very useful import method
}

```

and you want to Export symbol \$A::b back to the module that called package A. Since Exporter relies on the import method to work, via inheritance, as it stands Exporter::import() will never get called.

Instead, say the following:

```

package A;
@ISA = qw(Exporter);
@EXPORT_OK = qw ($b);

sub import
{
    $A::b = 1;
    A->export_to_level(1, @_);
}

```

This will export the symbols one level 'above' the current package - ie: to the program or module that used package A.

Note: Be careful not to modify @\_ at all before you call export\_to\_level - or people using your package will get very unexplained results!

#### Exporting without inheriting from Exporter

By including Exporter in your @ISA you inherit an Exporter's import() method but you also inherit several other helper methods which you probably don't want. To avoid this you can do

```

package YourModule;
use Exporter qw( import );

```

which will export Exporter's own import() method into YourModule. Everything will work as before but you won't need to include Exporter in @YourModule::ISA.

Note: This feature was introduced in version 5.57 of Exporter, released with perl 5.8.3.

#### Module Version Checking

The Exporter module will convert an attempt to import a number from a module into a call to "\$module\_name->require\_version(\$value)". This can be used to validate that the version of the module being used is greater

than or equal to the required version.

The Exporter module supplies a default "require\_version" method which checks the value of \$VERSION in the exporting module.

Since the default "require\_version" method treats the \$VERSION number as a simple numeric value it will regard version 1.10 as lower than 1.9.

For this reason it is strongly recommended that you use numbers with at least two decimal places, e.g., 1.09.

### Managing Unknown Symbols

In some situations you may want to prevent certain symbols from being exported. Typically this applies to extensions which have functions or constants that may not exist on some systems.

The names of any symbols that cannot be exported should be listed in the @EXPORT\_FAIL array.

If a module attempts to import any of these symbols the Exporter will give the module an opportunity to handle the situation before generating an error. The Exporter will call an export\_fail method with a list of the failed symbols:

```
@failed_symbols = $module_name->export_fail(@failed_symbols);
```

If the "export\_fail" method returns an empty list then no error is recorded and all the requested symbols are exported. If the returned list is not empty then an error is generated for each symbol and the export fails. The Exporter provides a default "export\_fail" method which simply returns the list unchanged.

Uses for the "export\_fail" method include giving better error messages for some symbols and performing lazy architectural checks (put more symbols into @EXPORT\_FAIL by default and then take them out if someone actually tries to use them and an expensive check shows that they are usable on that platform).

### Tag Handling Utility Functions

Since the symbols listed within %EXPORT\_TAGS must also appear in either @EXPORT or @EXPORT\_OK, two utility functions are provided which allow you to easily add tagged sets of symbols to @EXPORT or @EXPORT\_OK:

```
%EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);
```

```
Exporter::export_tags('foo'); # add aa, bb and cc to @EXPORT  
Exporter::export_ok_tags('bar'); # add aa, cc and dd to @EXPORT_OK
```

Any names which are not tags are added to @EXPORT or @EXPORT\_OK

unchanged but will trigger a warning (with "-w") to avoid misspelt tags names being silently added to @EXPORT or @EXPORT\_OK. Future versions may make this a fatal error.

#### Generating combined tags

If several symbol categories exist in %EXPORT\_TAGS, it's usually useful to create the utility ":all" to simplify "use" statements.

The simplest way to do this is:

```
%EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);

# add all the other ":class" tags to the ":all" class,
# deleting duplicates
{
    my %seen;

    push @{$EXPORT_TAGS{all}},
        grep { !$seen{$_}++ } @{$EXPORT_TAGS{$_}} foreach keys %EXPORT_TAGS;
}
```

CGI.pm creates an ":all" tag which contains some (but not really all) of its categories. That could be done with one small change:

```
# add some of the other ":class" tags to the ":all" class,
# deleting duplicates
{
    my %seen;

    push @{$EXPORT_TAGS{all}},
        grep { !$seen{$_}++ } @{$EXPORT_TAGS{$_}}
            foreach qw/html2 html3 netscape form cgi internal/;
}
```

Note that the tag names in %EXPORT\_TAGS don't have the leading ':

#### "AUTOLOAD"ed Constants

Many modules make use of "AUTOLOAD"ing for constant subroutines to avoid having to compile and waste memory on rarely used values (see perlsub for details on constant subroutines). Calls to such constant subroutines are not optimized away at compile time because they can't be checked at compile time for constancy.

Even if a prototype is available at compile time, the body of the subroutine is not (it hasn't been "AUTOLOAD"ed yet). perl needs to examine both the "()" prototype and the body of a subroutine at compile time to detect that it can safely replace calls to that subroutine with the constant value.

A workaround for this is to call the constants once in a "BEGIN" block:

```
package My ;

use Socket ;

foo( SO_LINGER );  ## SO_LINGER NOT optimized away; called at runtime
BEGIN { SO_LINGER }
foo( SO_LINGER );  ## SO_LINGER optimized away at compile time.
```

This forces the "AUTOLOAD" for "SO\_LINGER" to take place before SO\_LINGER is encountered later in "My" package.

If you are writing a package that "AUTOLOAD"s, consider forcing an "AUTOLOAD" for any constants explicitly imported by other packages or which are usually used when your package is "use"d.

### Good Practices

#### Declaring @EXPORT\_OK and Friends

When using "Exporter" with the standard "strict" and "warnings" pragmas, the "our" keyword is needed to declare the package variables @EXPORT\_OK, @EXPORT, @ISA, etc.

```
our @ISA = qw(Exporter);
our @EXPORT_OK = qw(munge frobnicate);
```

If backward compatibility for Perls under 5.6 is important, one must write instead a "use vars" statement.

```
use vars qw(@ISA @EXPORT_OK);
@ISA = qw(Exporter);
@EXPORT_OK = qw(munge frobnicate);
```

### Playing Safe

There are some caveats with the use of runtime statements like "require Exporter" and the assignment to package variables, which can very subtle for the unaware programmer. This may happen for instance with mutually recursive modules, which are affected by the time the relevant constructions are executed.

The ideal (but a bit ugly) way to never have to think about that is to use "BEGIN" blocks. So the first part of the "SYNOPSIS" code could be rewritten as:

```
package YourModule;

use strict;
```

```
use warnings;
```

```
our (@ISA, @EXPORT_OK);  
BEGIN {  
    require Exporter;  
    @ISA = qw(Exporter);  
    @EXPORT_OK = qw(munge frobnicate); # symbols to export on request  
}
```

The "BEGIN" will assure that the loading of Exporter.pm and the assignments to @ISA and @EXPORT\_OK happen immediately, leaving no room for something to get awry or just plain wrong.

With respect to loading "Exporter" and inheriting, there are alternatives with the use of modules like "base" and "parent".

```
use base qw( Exporter );  
# or  
use parent qw( Exporter );
```

Any of these statements are nice replacements for "BEGIN { require Exporter; @ISA = qw(Exporter); }" with the same compile-time effect. The basic difference is that "base" code interacts with declared "fields" while "parent" is a streamlined version of the older "base" code to just establish the IS-A relationship.

For more details, see the documentation and code of base and parent.

Another thorough remedy to that runtime vs. compile-time trap is to use Exporter::Easy, which is a wrapper of Exporter that allows all boilerplate code at a single gulp in the use statement.

```
use Exporter::Easy (  
    OK => [ qw(munge frobnicate) ],  
);  
# @ISA setup is automatic  
# all assignments happen at compile time
```

#### What not to Export

You have been warned already in "Selecting What To Export" to not export:

- \* method names (because you don't need to and that's likely to not do what you want),
- \* anything by default (because you don't want to surprise your users... badly)

\* anything you don't need to (because less is more)

There's one more item to add to this list. Do not export variable names. Just because "Exporter" lets you do that, it does not mean you should.

```
@EXPORT_OK = qw( $svar @avar %hvar ); # 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. Peek 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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Found in path(s):

```
* /opt/cola/permits/1000848977_1646171513.14/0/perl-Exporter-5.68-3.el7.src.rpm-cosi-expand-archive-h9fGsLBf/Exporter-5.68.tar.gz-cosi-expand-archive-xpaCzeyx/Exporter-5.68/README
```

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

License: GPL+ or Artistic

Found in path(s):

```
* /opt/cola/permits/1000848977_1646171513.14/0/perl-Exporter-5.68-3.el7.src.rpm-cosi-expand-archive-h9fGsLBf/perl-Exporter.spec
```

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

---

abstract: 'Implements default import method for modules'

author:

- unknown

build\_requires:



ExtUtils::MakeMaker: 0  
configure\_requires:  
ExtUtils::MakeMaker: 0  
dynamic\_config: 1  
generated\_by: 'ExtUtils::MakeMaker version 6.62, 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://perl5.git.perl.org/perl.git/tree/HEAD:/lib_x_MailingList): <http://lists.perl.org/list/perl5-porters.html>  
version: 5.68

Found in path(s):

\* /opt/cola/permits/1000848977\_1646171513.14/0/perl-Exporter-5.68-3.el7.src.rpm-cosi-expand-archive-h9fGsLBf/Exporter-5.68.tar.gz-cosi-expand-archive-xpaCzeyx/Exporter-5.68/META.yml

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

=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.

```
@EXPORT = qw(afunc $scalar @array); # afunc is a function
@EXPORT_OK = qw(&bfunc %hash *typeglob); # explicit prefix on &bfunc
```

If you are only exporting function names it is recommended to omit the ampersand, as the implementation is faster this way.

=head2 Selecting What to Export

Do B<not> export method names!

Do B<not> export anything else by default without a good reason!

Exports pollute the namespace of the module user. If you must export try to use C<@EXPORT\_OK> in preference to C<@EXPORT> and avoid short or common symbol names to reduce the risk of name clashes.

Generally anything not exported is still accessible from outside the module using the `C<YourModule::item_name>` (or `C<< $blessed_ref->method >>`) syntax. By convention you can use a leading underscore on names to informally indicate that they are 'internal' and not for public use.

(It is actually possible to get private functions by saying:

```
my $subref = sub { ... };
$subref->(@args);      # Call it as a function
$obj->$subref(@args);  # Use it as a method
```

However if you use them for methods it is up to you to figure out how to make inheritance work.)

As a general rule, if the module is trying to be object oriented then export nothing. If it's just a collection of functions then `C<@EXPORT_OK>` anything but use `C<@EXPORT>` with caution. For function and method names use barewords in preference to names prefixed with ampersands for the export lists.

Other module design guidelines can be found in [L<perlmod>](#).

=head2 How to Import

In other files which wish to use your module there are three basic ways for them to load your module and import its symbols:

=over 4

=item `C<use YourModule;>`

This imports all the symbols from `YourModule`'s `C<@EXPORT>` into the namespace of the `C<use>` statement.

=item `C<use YourModule ();>`

This causes perl to load your module but does not import any symbols.

=item `C<use YourModule qw(...);>`

This imports only the symbols listed by the caller into their namespace. All listed symbols must be in your `C<@EXPORT>` or `C<@EXPORT_OK>`, else an error occurs. The advanced export features of `Exporter` are accessed like this, but with list entries that are syntactically distinct from symbol names.

=back

Unless you want to use its advanced features, this is probably all you need to know to use Exporter.

=head1 Advanced Features

=head2 Specialised Import Lists

If any of the entries in an import list begins with `!`, `:` or `/` then the list is treated as a series of specifications which either add to or delete from the list of names to import. They are processed left to right. Specifications are in the form:

```
[!]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:

```
use Module qw(:DEFAULT :T2 !B3 A3);
```

Other examples include:

```
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.

## Exporting Without Using Exporter's import Method

Exporter has a special method, 'export\_to\_level' which is used in situations where you can't directly call Exporter's import method. The export\_to\_level method looks like:

```
MyPackage->export_to_level(  
$where_to_export, $package, @what_to_export  
);
```

where C<\$where\_to\_export> is an integer telling how far up the calling stack to export your symbols, and C<@what\_to\_export> is an array telling what symbols \*to\* export (usually this is C<@\_>). The C<\$package> argument is currently unused.

For example, suppose that you have a module, A, which already has an import function:

```
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:

```
package A;  
@ISA = qw(Exporter);  
@EXPORT_OK = qw ($b);  
  
sub import  
{  
$A::b = 1;  
A->export_to_level(1, @_);  
}
```

This will export the symbols one level 'above' the current package - ie: to the program or module that used package A.

Note: Be careful not to modify `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

```
package YourModule;
use Exporter qw( import );
```

which will export `Exporter`'s own `import()` method into `YourModule`. Everything will work as before but you won't need to include `Exporter` in `C<@YourModule::ISA>`.

Note: This feature was introduced in version 5.57 of `Exporter`, released with perl 5.8.3.

## =head2 Module Version Checking

The `Exporter` module will convert an attempt to import a number from a module into a call to `C<< $module_name->VERSION($value) >>`. This can be used to validate that the version of the module being used is greater than or equal to the required version.

For historical reasons, `Exporter` supplies a `C<require_version>` method that simply delegates to `C<VERSION>`. Originally, before `C<UNIVERSAL::VERSION>` existed, `Exporter` would call `C<require_version>`.

Since the `C<UNIVERSAL::VERSION>` method treats the `C<$VERSION>` number as a simple numeric value it will regard version 1.10 as lower than 1.9. For this reason it is strongly recommended that you use numbers with at least two decimal places, e.g., 1.09.

## =head2 Managing Unknown Symbols

In some situations you may want to prevent certain symbols from being exported. Typically this applies to extensions which have functions or constants that may not exist on some systems.

The names of any symbols that cannot be exported should be listed in the `C<@EXPORT_FAIL>` array.

If a module attempts to import any of these symbols the `Exporter` will give the module an opportunity to handle the situation before generating an error. The `Exporter` will call an `export_fail` method with a list of the failed symbols:

```
@failed_symbols = $module_name->export_fail(@failed_symbols);
```

If the C<export\_fail> method returns an empty list then no error is recorded and all the requested symbols are exported. If the returned list is not empty then an error is generated for each symbol and the export fails. The Exporter provides a default C<export\_fail> method which simply returns the list unchanged.

Uses for the C<export\_fail> method include giving better error messages for some symbols and performing lazy architectural checks (put more symbols into C<@EXPORT\_FAIL> by default and then take them out if someone actually tries to use them and an expensive check shows that they are usable on that platform).

## =head2 Tag Handling Utility Functions

Since the symbols listed within C<%EXPORT\_TAGS> must also appear in either C<@EXPORT> or C<@EXPORT\_OK>, two utility functions are provided which allow you to easily add tagged sets of symbols to C<@EXPORT> or C<@EXPORT\_OK>:

```
%EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);
```

```
Exporter::export_tags('foo'); # add aa, bb and cc to @EXPORT
Exporter::export_ok_tags('bar'); # add aa, cc and dd to @EXPORT_OK
```

Any names which are not tags are added to C<@EXPORT> or C<@EXPORT\_OK> unchanged but will trigger a warning (with C<-w>) to avoid misspelt tags names being silently added to C<@EXPORT> or C<@EXPORT\_OK>. Future versions may make this a fatal error.

## =head2 Generating Combined Tags

If several symbol categories exist in C<%EXPORT\_TAGS>, it's usually useful to create the utility ":all" to simplify "use" statements.

The simplest way to do this is:

```
%EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);

# add all the other ":class" tags to the ":all" class,
# deleting duplicates
{
    my %seen;

    push @{$EXPORT_TAGS{all}},
        grep { !$seen{$_} } @{$EXPORT_TAGS{$_}} foreach keys %EXPORT_TAGS;
}
```

F<CGI.pm> creates an ":all" tag which contains some (but not really all) of its categories. That could be done with one small change:

```
# add some of the other ":class" tags to the ":all" class,
# deleting duplicates
{
    my %seen;

    push @{$EXPORT_TAGS{all}},
        grep { !$seen{$_} } @{$EXPORT_TAGS{$_}}
        foreach qw/html2 html3 netscape form cgi internal/;
}
```

Note that the tag names in C<%EXPORT\_TAGS> don't have the leading '!'.

=head2 C<AUTOLOAD>ed Constants

Many modules make use of C<AUTOLOAD>ing for constant subroutines to avoid having to compile and waste memory on rarely used values (see L<perlsub> for details on constant subroutines). Calls to such constant subroutines are not optimized away at compile time because they can't be checked at compile time for constancy.

Even if a prototype is available at compile time, the body of the subroutine is not (it hasn't been C<AUTOLOAD>ed yet). perl needs to examine both the C<()> prototype and the body of a subroutine at compile time to detect that it can safely replace calls to that subroutine with the constant value.

A workaround for this is to call the constants once in a C<BEGIN> block:

```
package My ;

use Socket ;

foo( SO_LINGER ); ## SO_LINGER NOT optimized away; called at runtime
BEGIN { SO_LINGER }
foo( SO_LINGER ); ## SO_LINGER optimized away at compile time.
```

This forces the C<AUTOLOAD> for C<SO\_LINGER> to take place before SO\_LINGER is encountered later in C<My> package.

If you are writing a package that C<AUTOLOAD>s, consider forcing an C<AUTOLOAD> for any constants explicitly imported by other packages or which are usually used when your package is C<use>d.



=head1 Good Practices

=head2 Declaring C<@EXPORT\_OK> and Friends

When using C<Exporter> with the standard C<strict> and C<warnings> pragmas, the C<our> keyword is needed to declare the package variables C<@EXPORT\_OK>, C<@EXPORT>, C<@ISA>, etc.

```
our @ISA = qw(Exporter);
our @EXPORT_OK = qw(munge frobnicate);
```

If backward compatibility for Perls under 5.6 is important, one must write instead a C<use vars> statement.

```
use vars qw(@ISA @EXPORT_OK);
@ISA = qw(Exporter);
@EXPORT_OK = qw(munge frobnicate);
```

=head2 Playing Safe

There are some caveats with the use of runtime statements like C<require Exporter> and the assignment to package variables, which can be very subtle for the unaware programmer. This may happen for instance with mutually recursive modules, which are affected by the time the relevant constructions are executed.

The ideal (but a bit ugly) way to never have to think about that is to use C<BEGIN> blocks. So the first part of the L</SYNOPSIS> code could be rewritten as:

```
package YourModule;

use strict;
use warnings;

our (@ISA, @EXPORT_OK);
BEGIN {
    require Exporter;
    @ISA = qw(Exporter);
    @EXPORT_OK = qw(munge frobnicate); # symbols to export on request
}
```

The 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
```

=head2 What Not to Export

You have been warned already in L</Selecting What to Export> to not export:

=over 4

=item \*

method names (because you don't need to and that's likely to not do what you want),

=item \*

anything by default (because you don't want to surprise your users... badly)

=item \*

anything you don't need to (because less is more)

=back

There's one more item to add to this list. Do B<not> export variable names. Just because C<Exporter> lets you do that, it does not mean you should.

```
@EXPORT_OK = qw( $svar @avar %hvar ); # DON'T!
```

Exporting variables is not a good idea. They can change under the hood, provoking horrible effects at-a-distance, that are too hard to track and to fix. Trust me: they are not worth it.

To provide the capability to set/get class-wide settings, it is best instead to provide accessors as subroutines or class methods instead.

=head1 SEE ALSO

C<Exporter> is definitely not the only module with symbol exporter capabilities. At CPAN, you may find a bunch of them. Some are lighter. Some provide improved APIs and features. Peek the one that fits your needs. The following is a sample list of such modules.

```
Exporter::Easy  
Exporter::Lite  
Exporter::Renaming  
Exporter::Tidy  
Sub::Exporter / Sub::Installer  
Perl6::Export / Perl6::Export::Attrs
```

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=cut

Found in path(s):

```
* /opt/cola/permits/1000848977_1646171513.14/0/perl-Exporter-5.68-3.el7.src.rpm-cosi-expand-archive-h9fGsLBf/Exporter-5.68.tar.gz-cosi-expand-archive-xpaCzeyx/Exporter-5.68/lib/Exporter.pm
```

# 1.6 perl-socket 2.010-5.el7

## 1.6.1 Available under license :

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```
<one line to give the program's name and a brief idea of what it does.>  
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```

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```
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```

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<signature of Ty Coon>, 1 April 1989  
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## 1.7 neethi 2.0.5

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## 1.8 wpa-supPLICant 2.6-12.el7

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wpa\_supplicant and hostapd  
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
```



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# 1.11 libevent 2.0.21 4.el7

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## 1.12 perl-parent 0.225-244.el7

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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 C<require> would not consider an eligible filename (that is, it does not end in either C<.pm> or C<.pmc>), use the following code:

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

=head1 DIAGNOSTICS

=over 4

=item Class 'Foo' tried to inherit from itself

Attempting to inherit from yourself generates a warning.

```
package Foo;
use parent 'Foo';
```

=back

=head1 HISTORY

This module was forked from L<base> to remove the cruft that had accumulated in it.

=head1 CAVEATS

=head1 SEE ALSO

L<base>

=head1 AUTHORS AND CONTRIBUTORS

Rafaël Garcia-Suarez, Bart Lateur, Max Maischein, Anno Siegel, Michael Schwern

=head1 MAINTAINER

Max Maischein C< corion@cpan.org >

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Based on the idea of C<base.pm>, which was introduced with Perl 5.004\_04.

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=cut

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## 1.13 virt-what 1.18-4.el7

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## 1.15 jackson 1.9.5

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## 1.16 swagger-parser-core 2.0.17

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

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



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

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

This General Public License does not permit incorporating your program into  
proprietary programs. If your program is a subroutine library, you may  
consider it more useful to permit linking proprietary applications with the  
library. If this is what you want to do, use the GNU Lesser General  
Public License instead of this License.

## 1.18 aws-java-sdk 1.4.3

### 1.18.1 Available under license :

```
/*
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 *
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 * A copy of the License is located at
 *
 * http://aws.amazon.com/apache2.0
 *
 * or in the "license" file accompanying this file. This file is distributed
 * on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
 * express or implied. See the License for the specific language governing
 * permissions and limitations under the License.
 */
package com.amazonaws.services.ec2.model;
import java.io.Serializable;

/**
 * <p>
 * Represents an active license in use and attached to an Amazon EC2 instance.
 * </p>
 */
public class InstanceLicense implements Serializable {

    /**
     * The license pool from which this license was used (ex:
     * <code>'windows'</code>).
     */
    private String pool;

    /**
```

```

* The license pool from which this license was used (ex:
* <code>'windows'</code>).
*
* @return The license pool from which this license was used (ex:
*     <code>'windows'</code>).
*/
public String getPool() {
    return pool;
}

/**
* The license pool from which this license was used (ex:
* <code>'windows'</code>).
*
* @param pool The license pool from which this license was used (ex:
*     <code>'windows'</code>).
*/
public void setPool(String pool) {
    this.pool = pool;
}

/**
* The license pool from which this license was used (ex:
* <code>'windows'</code>).
* <p>
* Returns a reference to this object so that method calls can be chained together.
*
* @param pool The license pool from which this license was used (ex:
*     <code>'windows'</code>).
*
* @return A reference to this updated object so that method calls can be chained
*     together.
*/
public InstanceLicense withPool(String pool) {
    this.pool = pool;
    return this;
}

/**
* Returns a string representation of this object; useful for testing and
* debugging.
*
* @return A string representation of this object.
*
* @see java.lang.Object#toString()
*/
@Override

```

```

public String toString() {
    StringBuilder sb = new StringBuilder();
    sb.append("{}");
    if (getPool() != null) sb.append("Pool: " + getPool() );
    sb.append("{}");
    return sb.toString();
}

@Override
public int hashCode() {
    final int prime = 31;
    int hashCode = 1;

    hashCode = prime * hashCode + ((getPool() == null) ? 0 : getPool().hashCode());
    return hashCode;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) return true;
    if (obj == null) return false;

    if (obj instanceof InstanceLicense == false) return false;
    InstanceLicense other = (InstanceLicense)obj;

    if (other.getPool() == null ^ this.getPool() == null) return false;
    if (other.getPool() != null && other.getPool().equals(this.getPool()) == false) return false;
    return true;
}

}

/*
 * Copyright 2010-2013 Amazon.com, Inc. or its affiliates. All Rights Reserved.
 *
 * Licensed under the Apache License, Version 2.0 (the "License").
 * You may not use this file except in compliance with the License.
 * A copy of the License is located at
 *
 * http://aws.amazon.com/apache2.0
 *
 * or in the "license" file accompanying this file. This file is distributed
 * on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
 * express or implied. See the License for the specific language governing
 * permissions and limitations under the License.
 */
package com.amazonaws.services.s3.model;

```

```

/**
 * Specifies constants defining an access permission,
 * as granted to grantees in an
 * {@link AccessControlList}. Only a limited set of permission are available;
 * each one is represented as a value in this enumeration.
 */
public enum Permission {

    /**
     * Provides READ, WRITE, READ_ACP, and WRITE_ACP permissions.
     * <p>
     * It does not convey additional rights and is provided only for
     * convenience.
     * </p>
     */
    FullControl("FULL_CONTROL", "x-amz-grant-full-control"),

    /**
     * Grants permission to list the bucket when applied to a bucket.
     * Grants permission to read object data
     * and/or metadata when applied to an object.
     */
    Read("READ", "x-amz-grant-read"),

    /**
     * Grants permission to create, overwrite, and
     * delete any objects in the bucket.
     * <p>
     * This permission is not supported for objects.
     * </p>
     */
    Write("WRITE", "x-amz-grant-write"),

    /**
     * Grants permission to read the ACL for the applicable bucket or object.
     * <p>
     * The owner of a bucket or object always implicitly has this permission.
     * </p>
     */
    ReadAcp("READ_ACP", "x-amz-grant-read-acp"),

    /**
     * Gives permission to overwrite the ACP for the applicable bucket or
     * object.
     * <p>
     * The owner of a bucket or object always has this permission implicitly.
     * </p>
     * <p>

```

\* Granting this permission is equivalent to granting `FULL_CONTROL` because  
\* the grant recipient can make any changes to the ACP.

\* </p>

\*/

```
WriteAcp("WRITE_ACP", "x-amz-grant-write-acp");
```

```
private String permissionString;
```

```
private String headerName;
```

```
private Permission(String permissionString, String headerName) {  
    this.permissionString = permissionString;  
    this.headerName = headerName;  
}
```

```
/**
```

```
* Returns the name of the header used to grant this permission.
```

```
*/
```

```
public String getHeaderName() {  
    return headerName;  
}
```

```
/**
```

```
* Gets the string representation of this permission object as defined by
```

```
* Amazon S3, eg. FULL_CONTROL.
```

```
*
```

```
* @return The string representation of this permission object as defined by
```

```
* Amazon S3, eg. FULL_CONTROL.
```

```
*/
```

```
public String toString() {  
    return permissionString;  
}
```

```
/**
```

```
* Returns the {@link Permission} enumeration value representing the specified Amazon
```

```
* S3 Region ID string. If specified string doesn't map to a known Amazon S3
```

```
* Region, returns null.
```

```
*
```

```
* @param str
```

```
* A string representation of an Amazon S3 permission, eg.
```

```
* FULL_CONTROL
```

```
*
```

```
* @return The {@link Permission} object represented by the given permission string,
```

```
* Returns null if the string isn't a valid representation
```

```
* of an Amazon S3
```

```
* permission.
```

```
*/
```

```
public static Permission parsePermission(String str) {  
    for (Permission permission : Permission.values()) {
```

```

        if (permission.permissionString.equals(str)) {
            return permission;
        }
    }

    return null;
}

}
/*
 * Copyright 2010-2013 Amazon.com, Inc. or its affiliates. All Rights Reserved.
 *
 * Licensed under the Apache License, Version 2.0 (the "License").
 * You may not use this file except in compliance with the License.
 * A copy of the License is located at
 *
 * http://aws.amazon.com/apache2.0
 *
 * or in the "license" file accompanying this file. This file is distributed
 * on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
 * express or implied. See the License for the specific language governing
 * permissions and limitations under the License.
 */
package com.amazonaws.services.ec2.model;
import java.io.Serializable;

/**
 * <p>
 * A software license that can be associated with an Amazon EC2 instance when launched (ex. a Microsoft Windows
 * license).
 * </p>
 */
public class License implements Serializable {

    /**
     * The unique ID identifying the license.
     */
    private String licenseId;

    /**
     * The license type (ex. "Microsoft/Windows/Standard").
     */
    private String type;

    /**
     * The name of the pool in which the license is kept.
     */
    private String pool;

```

```

/**
 * The capacities available for this license, indicating how many
 * licenses are in use, how many are available, how many Amazon EC2
 * instances can be supported, etc.
 */
private java.util.List<LicenseCapacity> capacities;

/**
 * A list of tags for the License.
 */
private java.util.List<Tag> tags;

/**
 * The unique ID identifying the license.
 *
 * @return The unique ID identifying the license.
 */
public String getLicenseId() {
    return licenseId;
}

/**
 * The unique ID identifying the license.
 *
 * @param licenseId The unique ID identifying the license.
 */
public void setLicenseId(String licenseId) {
    this.licenseId = licenseId;
}

/**
 * The unique ID identifying the license.
 * <p>
 * Returns a reference to this object so that method calls can be chained together.
 *
 * @param licenseId The unique ID identifying the license.
 *
 * @return A reference to this updated object so that method calls can be chained
 *         together.
 */
public License withLicenseId(String licenseId) {
    this.licenseId = licenseId;
    return this;
}

/**

```

```

* The license type (ex. "Microsoft/Windows/Standard").
*
* @return The license type (ex. "Microsoft/Windows/Standard").
*/
public String getType() {
    return type;
}

/**
* The license type (ex. "Microsoft/Windows/Standard").
*
* @param type The license type (ex. "Microsoft/Windows/Standard").
*/
public void setType(String type) {
    this.type = type;
}

/**
* The license type (ex. "Microsoft/Windows/Standard").
* <p>
* Returns a reference to this object so that method calls can be chained together.
*
* @param type The license type (ex. "Microsoft/Windows/Standard").
*
* @return A reference to this updated object so that method calls can be chained
*         together.
*/
public License withType(String type) {
    this.type = type;
    return this;
}

/**
* The name of the pool in which the license is kept.
*
* @return The name of the pool in which the license is kept.
*/
public String getPool() {
    return pool;
}

/**
* The name of the pool in which the license is kept.
*
* @param pool The name of the pool in which the license is kept.
*/
public void setPool(String pool) {

```



```

    this.pool = pool;
}

/**
 * The name of the pool in which the license is kept.
 * <p>
 * Returns a reference to this object so that method calls can be chained together.
 *
 * @param pool The name of the pool in which the license is kept.
 *
 * @return A reference to this updated object so that method calls can be chained
 *         together.
 */
public License withPool(String pool) {
    this.pool = pool;
    return this;
}

/**
 * The capacities available for this license, indicating how many
 * licenses are in use, how many are available, how many Amazon EC2
 * instances can be supported, etc.
 *
 * @return The capacities available for this license, indicating how many
 *         licenses are in use, how many are available, how many Amazon EC2
 *         instances can be supported, etc.
 */
public java.util.List<LicenseCapacity> getCapacities() {

    if (capacities == null) {
        capacities = new java.util.ArrayList<LicenseCapacity>();
    }
    return capacities;
}

/**
 * The capacities available for this license, indicating how many
 * licenses are in use, how many are available, how many Amazon EC2
 * instances can be supported, etc.
 *
 * @param capacities The capacities available for this license, indicating how many
 *                   licenses are in use, how many are available, how many Amazon EC2
 *                   instances can be supported, etc.
 */
public void setCapacities(java.util.Collection<LicenseCapacity> capacities) {
    if (capacities == null) {
        this.capacities = null;
    }
}

```

```

        return;
    }

    java.util.List<LicenseCapacity> capacitiesCopy = new java.util.ArrayList<LicenseCapacity>(capacities.size());
    capacitiesCopy.addAll(capacities);
    this.capacities = capacitiesCopy;
}

/**
 * The capacities available for this license, indicating how many
 * licenses are in use, how many are available, how many Amazon EC2
 * instances can be supported, etc.
 * <p>
 * Returns a reference to this object so that method calls can be chained together.
 *
 * @param capacities The capacities available for this license, indicating how many
 *     licenses are in use, how many are available, how many Amazon EC2
 *     instances can be supported, etc.
 *
 * @return A reference to this updated object so that method calls can be chained
 *     together.
 */
public License withCapacities(LicenseCapacity... capacities) {
    if (getCapacities() == null) setCapacities(new java.util.ArrayList<LicenseCapacity>(capacities.length));
    for (LicenseCapacity value : capacities) {
        getCapacities().add(value);
    }
    return this;
}

/**
 * The capacities available for this license, indicating how many
 * licenses are in use, how many are available, how many Amazon EC2
 * instances can be supported, etc.
 * <p>
 * Returns a reference to this object so that method calls can be chained together.
 *
 * @param capacities The capacities available for this license, indicating how many
 *     licenses are in use, how many are available, how many Amazon EC2
 *     instances can be supported, etc.
 *
 * @return A reference to this updated object so that method calls can be chained
 *     together.
 */
public License withCapacities(java.util.Collection<LicenseCapacity> capacities) {
    if (capacities == null) {
        this.capacities = null;
    } else {

```

```

        java.util.List<LicenseCapacity> capacitiesCopy = new
java.util.ArrayList<LicenseCapacity>(capacities.size());
        capacitiesCopy.addAll(capacities);
        this.capacities = capacitiesCopy;
    }

    return this;
}

/**
 * A list of tags for the License.
 *
 * @return A list of tags for the License.
 */
public java.util.List<Tag> getTags() {

    if (tags == null) {
        tags = new java.util.ArrayList<Tag>();
    }
    return tags;
}

/**
 * A list of tags for the License.
 *
 * @param tags A list of tags for the License.
 */
public void setTags(java.util.Collection<Tag> tags) {

    if (tags == null) {
        this.tags = null;
        return;
    }

    java.util.List<Tag> tagsCopy = new java.util.ArrayList<Tag>(tags.size());
    tagsCopy.addAll(tags);
    this.tags = tagsCopy;
}

/**
 * A list of tags for the License.
 * <p>
 * Returns a reference to this object so that method calls can be chained together.
 *
 * @param tags A list of tags for the License.
 *
 * @return A reference to this updated object so that method calls can be chained
 *         together.
 */

```

```

public License withTags(Tag... tags) {
    if (getTags() == null) setTags(new java.util.ArrayList<Tag>(tags.length));
    for (Tag value : tags) {
        getTags().add(value);
    }
    return this;
}

/**
 * A list of tags for the License.
 * <p>
 * Returns a reference to this object so that method calls can be chained together.
 *
 * @param tags A list of tags for the License.
 *
 * @return A reference to this updated object so that method calls can be chained
 *         together.
 */
public License withTags(java.util.Collection<Tag> tags) {
    if (tags == null) {
        this.tags = null;
    } else {
        java.util.List<Tag> tagsCopy = new java.util.ArrayList<Tag>(tags.size());
        tagsCopy.addAll(tags);
        this.tags = tagsCopy;
    }

    return this;
}

/**
 * Returns a string representation of this object; useful for testing and
 * debugging.
 *
 * @return A string representation of this object.
 *
 * @see java.lang.Object#toString()
 */
@Override
public String toString() {
    StringBuilder sb = new StringBuilder();
    sb.append("{}");
    if (getLicenseId() != null) sb.append("LicenseId: " + getLicenseId() + ",");
    if (getType() != null) sb.append("Type: " + getType() + ",");
    if (getPool() != null) sb.append("Pool: " + getPool() + ",");
    if (getCapacities() != null) sb.append("Capacities: " + getCapacities() + ",");
    if (getTags() != null) sb.append("Tags: " + getTags() );
    sb.append("{}");
}

```

```

        return sb.toString();
    }

    @Override
    public int hashCode() {
        final int prime = 31;
        int hashCode = 1;

        hashCode = prime * hashCode + ((getLicenseId() == null) ? 0 : getLicenseId().hashCode());
        hashCode = prime * hashCode + ((getType() == null) ? 0 : getType().hashCode());
        hashCode = prime * hashCode + ((getPool() == null) ? 0 : getPool().hashCode());
        hashCode = prime * hashCode + ((getCapacities() == null) ? 0 : getCapacities().hashCode());
        hashCode = prime * hashCode + ((getTags() == null) ? 0 : getTags().hashCode());
        return hashCode;
    }

    @Override
    public boolean equals(Object obj) {
        if (this == obj) return true;
        if (obj == null) return false;

        if (obj instanceof License == false) return false;
        License other = (License)obj;

        if (other.getLicenseId() == null ^ this.getLicenseId() == null) return false;
        if (other.getLicenseId() != null && other.getLicenseId().equals(this.getLicenseId()) == false) return false;
        if (other.getType() == null ^ this.getType() == null) return false;
        if (other.getType() != null && other.getType().equals(this.getType()) == false) return false;
        if (other.getPool() == null ^ this.getPool() == null) return false;
        if (other.getPool() != null && other.getPool().equals(this.getPool()) == false) return false;
        if (other.getCapacities() == null ^ this.getCapacities() == null) return false;
        if (other.getCapacities() != null && other.getCapacities().equals(this.getCapacities()) == false) return false;
        if (other.getTags() == null ^ this.getTags() == null) return false;
        if (other.getTags() != null && other.getTags().equals(this.getTags()) == false) return false;
        return true;
    }
}

/*
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 *
 * Licensed under the Apache License, Version 2.0 (the "License").
 * You may not use this file except in compliance with the License.
 * A copy of the License is located at
 *
 * http://aws.amazon.com/apache2.0
 *
 */

```

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\* on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either  
\* express or implied. See the License for the specific language governing  
\* permissions and limitations under the License.

\*/

```
package com.amazonaws.services.opsworks.model;  
import java.io.Serializable;
```

/\*\*

\* <p>

\* Describes stack or user permissions.

\* </p>

\*/

```
public class Permission implements Serializable {
```

/\*\*

\* A stack ID.

\*/

```
private String stackId;
```

/\*\*

\* The Amazon Resource Name (ARN) for an AWS Identity and Access

\* Management (IAM) role. For more information about IAM ARNs, see <a

\* href="http://docs.aws.amazon.com/IAM/latest/UserGuide/Using\_Identifiers.html">Using

\* Identifiers</a>.

\*/

```
private String iamUserArn;
```

/\*\*

\* Whether the user can use SSH.

\*/

```
private Boolean allowSsh;
```

/\*\*

\* Whether the user can use <b>sudo</b>.

\*/

```
private Boolean allowSudo;
```

/\*\*

\* A stack ID.

\*

\* @return A stack ID.

\*/

```
public String getStackId() {  
    return stackId;  
}
```

/\*\*

```

* A stack ID.
*
* @param stackId A stack ID.
*/
public void setStackId(String stackId) {
    this.stackId = stackId;
}

/**
* A stack ID.
* <p>
* Returns a reference to this object so that method calls can be chained together.
*
* @param stackId A stack ID.
*
* @return A reference to this updated object so that method calls can be chained
*         together.
*/
public Permission withStackId(String stackId) {
    this.stackId = stackId;
    return this;
}

/**
* The Amazon Resource Name (ARN) for an AWS Identity and Access
* Management (IAM) role. For more information about IAM ARNs, see <a
* href="http://docs.aws.amazon.com/IAM/latest/UserGuide/Using_Identifiers.html">Using
* Identifiers</a>.
*
* @return The Amazon Resource Name (ARN) for an AWS Identity and Access
*         Management (IAM) role. For more information about IAM ARNs, see <a
*         href="http://docs.aws.amazon.com/IAM/latest/UserGuide/Using_Identifiers.html">Using
*         Identifiers</a>.
*/
public String getIamUserArn() {
    return iamUserArn;
}

/**
* The Amazon Resource Name (ARN) for an AWS Identity and Access
* Management (IAM) role. For more information about IAM ARNs, see <a
* href="http://docs.aws.amazon.com/IAM/latest/UserGuide/Using_Identifiers.html">Using
* Identifiers</a>.
*
* @param iamUserArn The Amazon Resource Name (ARN) for an AWS Identity and Access
*                   Management (IAM) role. For more information about IAM ARNs, see <a
*                   href="http://docs.aws.amazon.com/IAM/latest/UserGuide/Using_Identifiers.html">Using

```

```

*   Identifiers</a>.
*/
public void setIamUserArn(String iamUserArn) {
    this.iamUserArn = iamUserArn;
}

/**
 * The Amazon Resource Name (ARN) for an AWS Identity and Access
 * Management (IAM) role. For more information about IAM ARNs, see <a
 * href="http://docs.aws.amazon.com/IAM/latest/UserGuide/Using_Identifiers.html">Using
 * Identifiers</a>.
 * <p>
 * Returns a reference to this object so that method calls can be chained together.
 *
 * @param iamUserArn The Amazon Resource Name (ARN) for an AWS Identity and Access
 * Management (IAM) role. For more information about IAM ARNs, see <a
 * href="http://docs.aws.amazon.com/IAM/latest/UserGuide/Using_Identifiers.html">Using
 * Identifiers</a>.
 *
 * @return A reference to this updated object so that method calls can be chained
 * together.
 */
public Permission withIamUserArn(String iamUserArn) {
    this.iamUserArn = iamUserArn;
    return this;
}

/**
 * Whether the user can use SSH.
 *
 * @return Whether the user can use SSH.
 */
public Boolean isAllowSsh() {
    return allowSsh;
}

/**
 * Whether the user can use SSH.
 *
 * @param allowSsh Whether the user can use SSH.
 */
public void setAllowSsh(Boolean allowSsh) {
    this.allowSsh = allowSsh;
}

/**
 * Whether the user can use SSH.

```



```

* <p>
* Returns a reference to this object so that method calls can be chained together.
*
* @param allowSsh Whether the user can use SSH.
*
* @return A reference to this updated object so that method calls can be chained
*         together.
*/
public Permission withAllowSsh(Boolean allowSsh) {
    this.allowSsh = allowSsh;
    return this;
}

/**
 * Whether the user can use SSH.
 *
 * @return Whether the user can use SSH.
 */
public Boolean getAllowSsh() {
    return allowSsh;
}

/**
 * Whether the user can use <b>sudo</b>.
 *
 * @return Whether the user can use <b>sudo</b>.
 */
public Boolean isAllowSudo() {
    return allowSudo;
}

/**
 * Whether the user can use <b>sudo</b>.
 *
 * @param allowSudo Whether the user can use <b>sudo</b>.
 */
public void setAllowSudo(Boolean allowSudo) {
    this.allowSudo = allowSudo;
}

/**
 * Whether the user can use <b>sudo</b>.
 * <p>
 * Returns a reference to this object so that method calls can be chained together.
 *
 * @param allowSudo Whether the user can use <b>sudo</b>.
 *

```

```

* @return A reference to this updated object so that method calls can be chained
*     together.
*/
public Permission withAllowSudo(Boolean allowSudo) {
    this.allowSudo = allowSudo;
    return this;
}

/**
* Whether the user can use <b>sudo</b>.
*
* @return Whether the user can use <b>sudo</b>.
*/
public Boolean getAllowSudo() {
    return allowSudo;
}

/**
* Returns a string representation of this object; useful for testing and
* debugging.
*
* @return A string representation of this object.
*
* @see java.lang.Object#toString()
*/
@Override
public String toString() {
    StringBuilder sb = new StringBuilder();
    sb.append("{}");
    if (getStackId() != null) sb.append("StackId: " + getStackId() + ",");
    if (getIamUserArn() != null) sb.append("IamUserArn: " + getIamUserArn() + ",");
    if (isAllowSsh() != null) sb.append("AllowSsh: " + isAllowSsh() + ",");
    if (isAllowSudo() != null) sb.append("AllowSudo: " + isAllowSudo() );
    sb.append("{}");
    return sb.toString();
}

@Override
public int hashCode() {
    final int prime = 31;
    int hashCode = 1;

    hashCode = prime * hashCode + ((getStackId() == null) ? 0 : getStackId().hashCode());
    hashCode = prime * hashCode + ((getIamUserArn() == null) ? 0 : getIamUserArn().hashCode());
    hashCode = prime * hashCode + ((isAllowSsh() == null) ? 0 : isAllowSsh().hashCode());
    hashCode = prime * hashCode + ((isAllowSudo() == null) ? 0 : isAllowSudo().hashCode());
    return hashCode;
}

```

```

}

@Override
public boolean equals(Object obj) {
    if (this == obj) return true;
    if (obj == null) return false;

    if (obj instanceof Permission == false) return false;
    Permission other = (Permission)obj;

    if (other.getStackId() == null ^ this.getStackId() == null) return false;
    if (other.getStackId() != null && other.getStackId().equals(this.getStackId()) == false) return false;
    if (other.getIamUserArn() == null ^ this.getIamUserArn() == null) return false;
    if (other.getIamUserArn() != null && other.getIamUserArn().equals(this.getIamUserArn()) == false) return
false;
    if (other.isAllowSsh() == null ^ this.isAllowSsh() == null) return false;
    if (other.isAllowSsh() != null && other.isAllowSsh().equals(this.isAllowSsh()) == false) return false;
    if (other.isAllowSudo() == null ^ this.isAllowSudo() == null) return false;
    if (other.isAllowSudo() != null && other.isAllowSudo().equals(this.isAllowSudo()) == false) return false;
    return true;
}
}
}

```

## 1.19 grub 2.02-0.86.el7.centos

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Version 3, 29 June 2007

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```
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```

Validation Schema with validate.py

```
=====
```

```
-----
```

Using the Validator class

```
-----
```

```
:Authors: `Michael Foord`, `Nicola Larosa`, `Mark Andrews` _
```

```
:Version: Validate 1.0.1
```

```
:Date: 2010/01/09
```

```
:Homepage: `Validate Homepage` _
```

```
:Repository: `Google code homepage <http://code.google.com/p/configobj/>` _
```

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```
.. _Mailing List: http://lists.sourceforge.net/lists/listinfo/configobj-develop
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```

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.. _This Document:
```

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.. _Validate Homepage: http://www.voidspace.org.uk/python/validate.html
```

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```

.. contents:: Validate Manual

.. sectnum::

## Introduction

=====

Validation is used to check that supplied values conform to a specification.

The value can be supplied as a string, e.g. from a config file. In this case the check will also *convert* the value to the required type. This allows you to add validation as a transparent layer to access data stored as strings. The validation checks that the data is correct *and* converts it to the expected type.

Checks are also strings, and are easy to write. One generic system can be used to validate information from different sources via a single consistent mechanism.

Checks look like function calls, and map to function calls. They can include parameters and keyword arguments. These arguments are passed to the relevant function by the `Validator` instance, along with the value being checked.

The syntax for checks also allows for specifying a default value. This default value can be `None`, no matter what the type of the check. This can be used to indicate that a value was missing, and so holds no useful value.

Functions either return a new value, or raise an exception. See `Validator Exceptions`_` for the low down on the exception classes that `validate.py` defines.

Some standard functions are provided, for basic data types; these come built into every validator. Additional checks are easy to write: they can be provided when the `Validator` is instantiated, or added afterwards.

Validate was primarily written to support `ConfigObj_`, but is designed to be applicable to many other situations.

For support and bug reports please use the `ConfigObj`Mailing List`_`.

.. `_ConfigObj`: <http://www.voidspace.org.uk/python/configobj.html>

## Downloading

=====

The current version is **1.0.1**, dated 9th January 2010.



You can get obtain validate in the following ways :

## Files

-----

- \* validate.py\_ from Voidspace
- \* configobj.zip from Voidspace - See the homepage of ConfigObj\_ for the latest version and download links.

This contains validate.py and `this document`\_. (As well as ConfigObj\_ and the ConfigObj documentation).

- \* The latest development version can be obtained from the `Subversion Repository`\_.

## Documentation

-----

- \*configobj.zip\* contains `this document`\_.
- \* You can view `this document`\_ online as the `Validate Homepage`\_.

.. \_configobj.py: <http://www.voidspace.org.uk/cgi-bin/voidspace/download/configobj.py>  
.. \_configobj.zip: <http://www.voidspace.org.uk/cgi-bin/voidspace/download/configobj-4.7.0.zip>  
.. \_validate.py: <http://www.voidspace.org.uk/cgi-bin/voidspace/download/validate.py>  
.. \_Subversion Repository: <http://code.google.com/p/configobj/>  
.. \_Sourceforge: <http://sourceforge.net/projects/configobj>  
.. \_validate: <http://www.voidspace.org.uk/python/validate.html>

## The standard functions

=====

The standard functions come built-in to every ``Validator`` instance. They work with the following basic data types :

- \* integer
- \* float
- \* boolean
- \* string
- \* ip\_addr

plus lists of these datatypes.

Adding additional checks is done through coding simple functions.

The full set of standard checks are :

`:integer'`: matches integer values (including negative). Takes optional `'min'` and `'max'` arguments::

```
integer()  
integer(3, 9) # any value from 3 to 9  
integer(min=0) # any positive value  
integer(max=9)
```

`:float'`: matches float values

Has the same parameters as the integer check.

`:boolean'`: matches boolean values: ```True``` or ```False```.

Acceptable string values for True are::

true, on, yes, 1

Acceptable string values for False are::

false, off, no, 0

Any other value raises an error.

`:string'`: matches any string. Takes optional keyword args `'min'` and `'max'` to specify min and max length of string.

`:ip_addr'`: matches an Internet Protocol address, v.4, represented by a dotted-quad string, i.e. `'1.2.3.4'`.

`:list'`: matches any list. Takes optional keyword args `'min'`, and `'max'` to specify min and max sizes of the list. The list checks always return a list.

`:force_list'`: matches any list, but if a single value is passed in will coerce it into a list containing that value. Useful for `configobj` if the user forgot the trailing comma to turn a single value into a list.

`:tuple'`: matches any list. This check returns a tuple rather than a list.

`:int_list'`: Matches a list of integers. Takes the same arguments as list.

`:float_list'`: Matches a list of floats. Takes the same arguments as list.

`:bool_list'`: Matches a list of boolean values. Takes the same arguments as list.

:`string_list`: Matches a list of strings. Takes the same arguments as `list`.

:`ip_addr_list`: Matches a list of IP addresses. Takes the same arguments as `list`.

:`mixed_list`: Matches a list with different types in specific positions.  
List size must match the number of arguments.

Each position can be one of::

`int`, `str`, `boolean`, `float`, `ip_addr`

So to specify a list with two strings followed by two integers,  
you write the check as::

`mixed_list(str, str, int, int)`

:`pass`: matches everything: it never fails and the value is unchanged. It is  
also the default if no check is specified.

:`option`: matches any from a list of options.  
You specify this test with::

`option('option 1', 'option 2', 'option 3')`

The following code will work without you having to specifically add the  
functions yourself.

.. code-block:: python

```
from validate import Validator
#
vtor = Validator()
newval1 = vtor.check('integer', value1)
newval2 = vtor.check('boolean', value2)
# etc ...
```

.. note::

Of course, if these checks fail they raise exceptions. So you should wrap  
them in `try...except` blocks. Better still, use `ConfigObj` for a higher  
level interface.

Using `Validator`

=====

Using `Validator` is very easy. It has one public attribute and one public

method.

Shown below are the different steps in using ``Validator``.

The only additional thing you need to know, is about `Writing check functions`\_.

Instantiate

-----

.. code-block:: python

```
from validate import Validator
vtor = Validator()
```

or even :

.. code-block:: python

```
from validate import Validator
#
fdict = {
    'check_name1': function1,
    'check_name2': function2,
    'check_name3': function3,
}
#
vtor = Validator(fdict)
```

The second method adds a set of your functions as soon as your validator is created. They are stored in the ``vtor.functions`` dictionary. The 'key' you give them in this dictionary is the name you use in your checks (not the original function name).

Dictionary keys/functions you pass in can override the built-in ones if you want.

Adding functions

-----

The code shown above, for adding functions on instantiation, has exactly the same effect as the following code :

.. code-block:: python

```
from validate import Validator
```

```
#
vtor = Validator()
vtor.functions['check_name1'] = function1
vtor.functions['check_name2'] = function2
vtor.functions['check_name3'] = function3
```

`vtor.functions`` is just a dictionary that maps names to functions, so we could also have called `vtor.functions.update(fdict)``.

### Writing the check

-----

As we've heard, the checks map to the names in the `functions`` dictionary. You've got a full list of `The standard functions`_` and the arguments they take.`

If you're using `Validator`` from `ConfigObj``, then your checks will look like::

```
keyword = int_list(max=6)
```

but the check part will be identical .

### The check method

-----

If you're not using `Validator`` from `ConfigObj``, then you'll need to call the `check`` method yourself.

If the check fails then it will raise an exception, so you'll want to trap that. Here's the basic example :

.. code-block:: python

```
from validate import Validator, ValidateError
#
vtor = Validator()
check = "integer(0, 9)"
value = 3
try:
    newvalue = vtor.check(check, value)
except ValidateError:
    print 'Check Failed.'
else:
    print 'Check passed.'
```

.. caution::

Although the value can be a string, if it represents a list it should already have been turned into a list of strings.

## Default Values

~~~~~

Some values may not be available, and you may want to be able to specify a default as part of the check.

You do this by passing the keyword `missing=True` to the `check` method, as well as a `default=value` in the check. (Constructing these checks is done automatically by `ConfigObj`: you only need to know about the `default=value` part) :

.. code-block:: python

```
check1 = 'integer(default=50)'
check2 = 'option("val 1", "val 2", "val 3", default="val 1")'

assert vtor.check(check1, ", missing=True) == 50
assert vtor.check(check2, ", missing=True) == "val 1"
```

If you pass in `missing=True` to the check method, then the actual value is ignored. If no default is specified in the check, a `ValidateMissingValue` exception is raised. If a default is specified then that is passed to the check instead.

If the check has `default=None` (case sensitive) then `vtor.check` will *always* return `None` (the object). This makes it easy to tell your program that this check contains no useful value when missing, i.e. the value is optional, and may be omitted without harm.

.. note::

As of version 0.3.0, if you specify `default='None'` (note the quote marks around `None`) then it will be interpreted as the string `'None'`.

## List Values

~~~~~

It's possible that you would like your default value to be a list. It's even possible that you will write your own check functions - and would like to pass

them keyword arguments as lists from within the check.

To avoid confusing syntax with commas and quotes you use a list constructor to specify that keyword arguments are lists. This includes the ``default`` value. This makes checks look something like::

```
checkname(default=list('val1', 'val2', 'val3'))
```

```
get_default_value
```

```
-----
```

``Validator`` instances have a ``get\_default\_value`` method. It takes a ``check`` string (the same string you would pass to the ``check`` method) and returns the default value, converted to the right type. If the check doesn't define a default value then this method raises a ``KeyError``.

If the ``check`` has been seen before then it will have been parsed and cached already, so this method is not expensive to call (however the conversion is done each time).

## Validator Exceptions

```
=====
```

.. note::

If you only use Validator through ConfigObj, it traps these Exceptions for you. You will still need to know about them for writing your own check functions.

``vtor.check`` indicates that the check has failed by raising an exception. The appropriate error should be raised in the check function.

The base error class is ``ValidateError``. All errors (except for ``VdtParamError``) raised are sub-classes of this.

If an unrecognised check is specified then ``VdtUnknownCheckError`` is raised.

There are also ``VdtTypeError`` and ``VdtValueError``.

If incorrect parameters are passed to a check function then it will (or should) raise ``VdtParamError``. As this indicates \*programmer\* error, rather than an error in the value, it is a subclass of ``SyntaxError`` instead of ``ValidateError``.

.. note::

This means it *\*won't\** be caught by ConfigObj - but propagated instead.

If the value supplied is the wrong type, then the check should raise `VdtTypeError``. e.g. the check requires the value to be an integer (or representation of an integer) and something else was supplied.

If the value supplied is the right type, but an unacceptable value, then the check should raise `VdtValueError``. e.g. the check requires the value to be an integer (or representation of an integer) less than ten and a higher value was supplied.

Both `VdtTypeError`` and `VdtValueError`` are initialised with the incorrect value. In other words you raise them like this :

```
.. code-block:: python
```

```
raise VdtTypeError(value)
#
raise VdtValueError(value)
```

`VdtValueError`` has the following subclasses, which should be raised if they are more appropriate.

```
* VdtValueTooSmallError`
* VdtValueTooBigError`
* VdtValueTooShortError`
* VdtValueTooLongError`
```

## Writing check functions

=====

Writing check functions is easy.

The check function will receive the value as its first argument, followed by any other parameters and keyword arguments.

If the check fails, it should raise a `VdtTypeError`` or a `VdtValueError`` (or an appropriate subclass).

All parameters and keyword arguments are *\*always\** passed as strings. (Parsed from the check string).

The value might be a string (or list of strings) and need converting to the right type - alternatively it might already be a list of integers. Our function needs to be able to handle either.



If the check passes then it should return the value (possibly converted to the right type).

And that's it !

Example

-----

Here is an example function that requires a list of integers. Each integer must be between 0 and 99.

It takes a single argument specifying the length of the list. (Which allows us to use the same check in more than one place). If the length can't be converted to an integer then we need to raise `VdtParamError`.

Next we check that the value is a list. Anything else should raise a `VdtTypeError`. The list should also have 'length' entries. If the list has more or less entries then we will need to raise a `VdtValueTooShortError` or a `VdtValueTooLongError`.

Then we need to check every entry in the list. Each entry should be an integer between 0 and 99, or a string representation of an integer between 0 and 99. Any other type is a `VdtTypeError`, any other value is a `VdtValueError` (either too big, or too small).

.. code-block:: python

```
def special_list(value, length):
    """
    Check that the supplied value is a list of integers,
    with 'length' entries, and each entry between 0 and 99.
    """
    # length is supplied as a string
    # we need to convert it to an integer
    try:
        length = int(length)
    except ValueError:
        raise VdtParamError('length', length)
    #
    # Check the supplied value is a list
    if not isinstance(value, list):
        raise VdtTypeError(value)
    #
    # check the length of the list is correct
    if len(value) > length:
        raise VdtValueTooLongError(value)
    elif len(value) < length:
```

```

    raise VdtValueTooShortError(value)
#
# Next, check every member in the list
# converting strings as necessary
out = []
for entry in value:
    if not isinstance(entry, (str, unicode, int)):
        # a value in the list
        # is neither an integer nor a string
        raise VdtTypeError(value)
    elif isinstance(entry, (str, unicode)):
        if not entry.isdigit():
            raise VdtTypeError(value)
        else:
            entry = int(entry)
    if entry < 0:
        raise VdtValueTooSmallError(value)
    elif entry > 99:
        raise VdtValueTooBigError(value)
    out.append(entry)
#
# if we got this far, all is well
# return the new list
return out

```

If you are only using validate from ConfigObj then the error type (\*TooBig\*, \*TooSmall\*, etc) is lost - so you may only want to raise ``VdtValueError``.

.. caution::

If your function raises an exception that isn't a subclass of ``ValidateError``, then ConfigObj won't trap it. This means validation will fail.

This is why our function starts by checking the type of the value. If we are passed the wrong type (e.g. an integer rather than a list) we get a ``VdtTypeError`` rather than bombing out when we try to iterate over the value.

If you are using validate in another circumstance you may want to create your own subclasses of ``ValidateError`` which convey more specific information.

#### Known Issues

=====

The following parses and then blows up. The resulting error message is confusing:

```
``checkname(default=list(1, 2, 3, 4))``
```

This is because it parses as: ``checkname(default="list(1", 2, 3, 4))``.  
That isn't actually unreasonable, but the error message won't help you  
work out what has happened.

## TODO

====

- \* A regex check function ?
- \* A timestamp check function ? (Using the ``parse`` function from ``DateUtil`` perhaps).

## ISSUES

=====

.. note::

Please file any bug reports to `Michael Foord`\_ or the ConfigObj  
`Mailing List`\_.

If we could pull tuples out of arguments, it would be easier  
to specify arguments for 'mixed\_lists'.

## CHANGELOG

=====

2009/10/25 - Version 1.0.1

-----

- \* BUGFIX: Fixed compatibility with Python 2.3.

2009/04/13 - Version 1.0.0

-----

- \* BUGFIX: can now handle multiline strings.
- \* Addition of 'force\_list' validation option.

As the API is stable and there are no known bugs or outstanding feature requests I am marking this 1.0.

2008/02/24 - Version 0.3.2

-----

BUGFIX: Handling of None as default value fixed.

2008/02/05 - Version 0.3.1

-----

BUGFIX: Unicode checks no longer broken.

2008/02/05 - Version 0.3.0

-----

Improved performance with a parse cache.

New `get_default_value` method. Given a check it returns the default value (converted to the correct type) or raises a `KeyError` if the check doesn't specify a default.

Added 'tuple' check and corresponding 'is\_tuple' function (which always returns a tuple).

BUGFIX: A quoted 'None' as a default value is no longer treated as None, but as the string 'None'.

BUGFIX: We weren't unquoting keyword arguments of length two, so an empty string didn't work as a default.

BUGFIX: Strings no longer pass the 'is\_list' check. Additionally, the list checks always return lists.

A couple of documentation bug fixes.

Removed CHANGELOG from module.

2007/02/04 Version 0.2.3

-----

Release of 0.2.3

2006/12/17 Version 0.2.3-alpha1

-----

By Nicola Larosa

Fixed validate doc to talk of `boolean` instead of `bool`; changed the `is_bool` function to `is_boolean` (Sourceforge bug #1531525).

2006/04/29 Version 0.2.2

-----

Addressed bug where a string would pass the ``is\_list`` test. (Thanks to Konrad Wojas.)

2005/12/16 Version 0.2.1

-----

Fixed bug so we can handle keyword argument values with commas.

We now use a list constructor for passing list values to keyword arguments (including ``default``)::

```
default=list("val", "val", "val")
```

Added the ``\_test`` test.

Moved a function call outside a try...except block.

2005/08/18 Version 0.2.0

-----

Updated by `Michael Foord`\_ and `Nicola Larosa`\_

Does type conversion as well.

2005/02/01 Version 0.1.0

-----

Initial version developed by `Michael Foord`\_ and Mark Andrews.

Found in path(s):

```
* /opt/cola/permits/1136595909_1613806141.16/0/python-configobj-4.7.2-7.el7-1.src.rpm-cosi-expand-archive-4PfyR1xo/configobj-4.7.2.zip-cosi-expand-archive-BQiS1vdQ/configobj-4.7.2/docs/validate.txt
```

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

<tr class="field"><th class="docinfo-name">License:</th><td class="field-body"><a class="reference external" href="http://www.voidspace.org.uk/python/license.shtml">BSD License</a></td>

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Found in path(s):

\* /opt/cola/permits/1136595909\_1613806141.16/0/python-configobj-4.7.2-7.el7-1.src.rpm-cosi-expand-archive-4PfyR1xo/configobj-4.7.2.zip-cosi-expand-archive-BQiS1vdQ/configobj-4.7.2/docs/configobj.html

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

=====  
Reading and Writing Config Files  
=====

-----  
ConfigObj 4 Introduction and Reference  
-----

:Authors: Michael Foord, Nicola Larosa

:Version: ConfigObj 4.7.2

:Date: 2010/02/27

:Homepage: `ConfigObj Homepage`\_

:PyPI Entry: `ConfigObj on PyPI <http://pypi.python.org/pypi/configobj/>`\_

:Development: `Google Code Homepage`\_

:License: `BSD License`\_

:Support: `Mailing List`\_

.. \_Mailing List: http://lists.sourceforge.net/lists/listinfo/configobj-develop

.. \_Google Code Homepage: http://code.google.com/p/configobj/

.. meta::

:description: ConfigObj - a Python module for easy reading and writing of config files.

:keywords: python, script, module, config, configuration, data, persistence, developer, configparser

.. contents:: ConfigObj Manual

.. sectnum::

.. note::

The best introduction to working with ConfigObj, including the powerful configuration validation system, is the article:

\* [An Introduction to ConfigObj <http://www.voidspace.org.uk/python/articles/configobj.shtml>](http://www.voidspace.org.uk/python/articles/configobj.shtml) \_

## Introduction

=====

**ConfigObj** is a simple but powerful config file reader and writer: an *ini* file round tripper. Its main feature is that it is very easy to use, with a straightforward programmer's interface and a simple syntax for config files. It has lots of other features though :

- \* Nested sections (subsections), to any level
- \* List values
- \* Multiple line values
- \* String interpolation (substitution)
- \* Integrated with a powerful validation system
  - including automatic type checking/conversion
  - repeated sections
  - and allowing default values
- \* When writing out config files, ConfigObj preserves all comments and the order of members and sections
- \* Many useful methods and options for working with configuration files (like the 'reload' method)
- \* Full Unicode support

For support and bug reports please use the ConfigObj [Mailing List](#) or the issue tracker on the [Google Code Homepage](#).

## Downloading

=====

The current version is **4.7.2**, dated 27th February 2010. ConfigObj 4 is stable and mature. We still expect to pick up a few bugs along the way though [#].

You can get ConfigObj in the following ways :

- \* `configobj.py` from Voidspace

ConfigObj has no external dependencies. This file is sufficient to access all the functionality except Validation.

- \* `configobj.zip` from Voidspace

This also contains `validate.py` and `this document`.

- \* `validate.py` from Voidspace

## Installing

-----

ConfigObj has a source distribution on PyPI <<http://pypi.python.org/pypi/configobj/>>\_. If you unzip the archive you can install it with::

```
setup.py install
```

Alternatively, you can install with easy install or pip::

```
easy_install configobj
```

## Documentation

-----

\*configobj.zip\* also contains `this document`\_.

\* You can view `this document`\_ online at the `ConfigObj Homepage`\_.

## Development Version

-----

It is sometimes possible to get the latest \*development version\* of ConfigObj from the Subversion Repository maintained on the `Google Code Homepage`\_.

```
.. _configobj.py: http://www.voidspace.org.uk/downloads/configobj.py  
.. _configobj.zip: http://www.voidspace.org.uk/downloads/configobj-4.7.2.zip  
.. _validate.py: http://www.voidspace.org.uk/downloads/validate.py  
.. _this document:  
.. _configobj homepage: http://www.voidspace.org.uk/python/configobj.html
```

## ConfigObj in the Real World

=====

\*\*ConfigObj\*\* is widely used. Projects using it include:

\* `Bazaar` <<http://bazaar-ng.org/>>`\_.

Bazaar is a Python distributed {acro;VCS;Version Control System}.  
ConfigObj is used to read ``bazaar.conf`` and ``branches.conf``.

\* `Chandler` <<http://chandler.osafoundation.org/>>`\_.



A Python and wxPython <<http://www.wxpython.org>> Personal Information Manager, being developed by the OSAFoundation <<http://www.osafoundation.org/>>.

\* matplotlib <<http://matplotlib.sourceforge.net/>>

A 2D plotting library.

\* IPython <<http://ipython.scipy.org/moin/>>

IPython is an enhanced interactive Python shell. IPython uses ConfigObj in a module called 'TConfig' that combines it with enthought Traits <<http://code.enthought.com/traits/>>: tconfig <<http://ipython.scipy.org/ipython/ipython/browser/ipython/branches/saw/sandbox/tconfig>>.

\* Elisa - the Fluendo Mediacenter <<http://elisa.fluendo.com/>>

Elisa is an open source cross-platform media center solution designed to be simple for people not particularly familiar with computers.

## Getting Started

=====

The outstanding feature of using ConfigObj is simplicity. Most functions can be performed with single line commands.

## Reading a Config File

-----

The normal way to read a config file, is to give ConfigObj the filename :

.. code-block:: python

```
from configobj import ConfigObj
config = ConfigObj(filename)
```

You can also pass the config file in as a list of lines, or a ``StringIO`` instance, so it doesn't matter where your config data comes from.

You can then access members of your config file as a dictionary. Subsections will also be dictionaries.

.. code-block:: python

```
from configobj import ConfigObj
config = ConfigObj(filename)
```

```

#
value1 = config['keyword1']
value2 = config['keyword2']
#
section1 = config['section1']
value3 = section1['keyword3']
value4 = section1['keyword4']
#
# you could also write
value3 = config['section1']['keyword3']
value4 = config['section1']['keyword4']

```

## Writing a Config File

-----

Creating a new config file is just as easy as reading one. You can specify a filename when you create the ConfigObj, or do it later [#]\_.

If you *don't* set a filename, then the `write` method will return a list of lines instead of writing to file. See the `write_` method for more details.

Here we show creating an empty ConfigObj, setting a filename and some values, and then writing to file :

.. code-block:: python

```

from configobj import ConfigObj
config = ConfigObj()
config.filename = filename
#
config['keyword1'] = value1
config['keyword2'] = value2
#
config['section1'] = { }
config['section1']['keyword3'] = value3
config['section1']['keyword4'] = value4
#
section2 = {
    'keyword5': value5,
    'keyword6': value6,
    'sub-section': {
        'keyword7': value7
    }
}
config['section2'] = section2
#

```

```

config['section3'] = { }
config['section3']['keyword 8'] = [value8, value9, value10]
config['section3']['keyword 9'] = [value11, value12, value13]
#
config.write()

```

.. caution::

Keywords and section names can only be strings [#]\_. Attempting to set anything else will raise a ``ValueError``.

See `String Interpolation and List Values`\_ for an important note on using lists in combination with `String Interpolation`\_.

## Config Files

-----

The config files that ConfigObj will read and write are based on the 'INI' format. This means it will read and write files created for ``ConfigParser`` [#]\_.

Keywords and values are separated by an ``='``, and section markers are between square brackets. Keywords, values, and section names can be surrounded by single or double quotes. Indentation is not significant, but can be preserved.

Subsections are indicated by repeating the square brackets in the section marker. You nest levels by using more brackets.

You can have list values by separating items with a comma, and values spanning multiple lines by using triple quotes (single or double).

For full details on all these see `the config file format`\_. Here's an example to illustrate::

```

# This is the 'initial_comment'
# Which may be several lines
keyword1 = value1
'keyword 2' = 'value 2'

[ "section 1" ]
# This comment goes with keyword 3
keyword 3 = value 3
'keyword 4' = value4, value 5, 'value 6'

[[ sub-section ]] # an inline comment

```

```
# sub-section is inside "section 1"
'keyword 5' = 'value 7'
'keyword 6' = "'A multiline value,
that spans more than one line :-)'
The line breaks are included in the value.'"
```

```
[[[ sub-sub-section ]]]
# sub-sub-section is *in* 'sub-section'
# which is in 'section 1'
'keyword 7' = 'value 8'
```

```
[section 2] # an inline comment
keyword8 = "value 9"
keyword9 = value10 # an inline comment
# The 'final_comment'
# Which also may be several lines
```

#### ConfigObj specifications

=====

.. code-block:: python

```
config = ConfigObj(infile=None, options=None, configspec=None, encoding=None,
    interpolation=True, raise_errors=False, list_values=True,
    create_empty=False, file_error=False, stringify=True,
    indent_type=None, default_encoding=None, unrepr=False,
    write_empty_values=False, _inspect=False)
```

Many of the keyword arguments are available as attributes after the config file has been parsed.

.. note::

New in ConfigObj 4.7.0: Instantiating ConfigObj with an ``options`` dictionary is now deprecated. To modify code that used to do this simply unpack the dictionary in the constructor call:

.. code-block:: python

```
config = ConfigObj(filename, **options)
```

ConfigObj takes the following arguments (with the default values shown) :

\* infile: ``None``

You don't need to specify an infile. If you omit it, an empty ConfigObj will be created. ``infile`` \*can\* be :

- \* Nothing. In which case the `filename` attribute of your `ConfigObj` will be `None`. You can set a filename at any time.
- \* A filename. What happens if the file doesn't already exist is determined by the options `file_error` and `create_empty`. The filename will be preserved as the `filename` attribute. This can be changed at any time.
- \* A list of lines. Any trailing newlines will be removed from the lines. The `filename` attribute of your `ConfigObj` will be `None`.
- \* A `StringIO` instance or file object, or any object with a `read` method. The `filename` attribute of your `ConfigObj` will be `None` [#]\_.
- \* A dictionary. You can initialise a `ConfigObj` from a dictionary [#]\_. The `filename` attribute of your `ConfigObj` will be `None`. All keys must be strings. In this case, the order of values and sections is arbitrary.

\* `'raise_errors': False`

When parsing, it is possible that the config file will be badly formed. The default is to parse the whole file and raise a single error at the end. You can set `raise_errors = True` to have errors raised immediately. See the `exceptions_` section for more details.

Altering this value after initial parsing has no effect.

\* `'list_values': True`

If `True` (the default) then list values are possible. If `False`, the values are not parsed for lists.

If `list_values = False` then single line values are not quoted or unquoted when reading and writing.

Changing this value affects whether single line values will be quoted or not when writing.

\* `'create_empty': False`

If this value is `True` and the file specified by `infile` doesn't exist, `ConfigObj` will create an empty file. This can be a useful test that the filename makes sense: an impossible filename will cause an error.

Altering this value after initial parsing has no effect.

\* `'file_error': False`

If this value is `True` and the file specified by `infile` doesn't exist, `ConfigObj` will raise an `IOError`.

Altering this value after initial parsing has no effect.

\* `'interpolation': True`

Whether string interpolation is switched on or not. It is on (`True`) by default.

You can set this attribute to change whether string interpolation is done when values are fetched. See the `'String Interpolation'` section for more details.

New in `ConfigObj 4.7.0`: Interpolation will also be done in list values.

\* `'configspec': None`

If you want to use the validation system, you supply a `configspec`. This is effectively a type of config file that specifies a check for each member. This check can be used to do type conversion as well as check that the value is within your required parameters.

You provide a `configspec` in the same way as you do the initial file: a filename, or list of lines, etc. See the `validation_` section for full details on how to use the system.

When parsed, every section has a `configspec` with a dictionary of `configspec` checks for *that section*.

\* `'stringify': True`

If you use the validation scheme, it can do type checking *and* conversion for you. This means you may want to set members to integers, or other non-string values.

If `'stringify'` is set to `True` (default) then non-string values will be converted to strings when you write the config file. The `validation_` process converts values from strings to the required type.

If `'stringify'` is set to `False`, attempting to set a member to a non-string value `[#]_` will raise a `TypeError` (no type conversion is done by validation).

\* `'indent_type': ''`

Indentation is not significant; it can however be present in the input and output config. Any combination of tabs and spaces may be used: the string will be repeated for each level of indentation. Typical values are: `''`

(no indentation), `'' ''` (indentation with four spaces, the default),  
`''\t''` (indentation with one tab).

If this option is not specified, and the `ConfigObj` is initialised with a dictionary, the indentation used in the output is the default one, that is, four spaces.

If this option is not specified, and the `ConfigObj` is initialised with a list of lines or a file, the indentation used in the first indented line is selected and used in all output lines. If no input line is indented, no output line will be either.

If this option `*is*` specified, the option value is used in the output config, overriding the type of indentation in the input config (if any).

`* 'encoding': ''None''`

By default `**ConfigObj**` does not decode the file/strings you pass it into Unicode [#]\_. If you want your config file as Unicode (keys and members) you need to provide an encoding to decode the file with. This encoding will also be used to encode the config file when writing.

You can change the encoding attribute at any time.

Any characters in your strings that can't be encoded with the specified encoding will raise a `UnicodeEncodeError`.

.. note::

`''UTF16''` encoded files will automatically be detected and decoded, even if `''encoding''` is `''None''`.

This is because it is a 16-bit encoding, and `ConfigObj` will mangle it (split characters on byte boundaries) if it parses it without decoding.

`* 'default_encoding': ''None''`

When using the `''write''` method, `**ConfigObj**` uses the `''encoding''` attribute to encode the Unicode strings. If any members (or keys) have been set as byte strings instead of Unicode, these must first be decoded to Unicode before outputting in the specified encoding.

`''default_encoding''`, if specified, is the encoding used to decode byte strings in the `**ConfigObj**` before writing. If this is `''None''`, then the Python default encoding (`sys.defaultencoding` - usually ASCII) is used.

For most Western European users, a value of `''latin-1''` is sensible.

`default_encoding` is *only* used if an `encoding` is specified.

Any characters in byte-strings that can't be decoded using the `default_encoding` will raise a `UnicodeDecodeError`.

\* `'unrepr': False`

The `unrepr` option reads and writes files in a different mode. This allows you to store and retrieve the basic Python data-types using config files.

This uses Python syntax for lists and quoting. See `unrepr mode` for the full details.

\* `'write_empty_values': False`

If `write_empty_values` is `True`, empty strings are written as empty values. See `Empty Values` for more details.

\* `'_inspect': False`

Used internally by `ConfigObj` when parsing `configspec` files. If you are creating a `ConfigObj` instance from a `configspec` file you must pass `True` for this argument as well as `list_values=False`.

## Methods

-----

The `ConfigObj` is a subclass of an object called `Section`, which is itself a subclass of `dict`, the builtin dictionary type. This means it also has *all* the normal dictionary methods.

In addition, the following `Section Methods` may be useful :

- \* `'restore_default'`
- \* `'restore_defaults'`
- \* `'walk'`
- \* `'merge'`
- \* `'dict'`
- \* `'as_bool'`
- \* `'as_float'`
- \* `'as_int'`
- \* `'as_list'`

Read about `Sections` for details of all the methods.



.. hint::

The `*merge*` method of sections is a recursive update.

You can use this to merge sections, or even whole `ConfigObjs`, into each other.

You would typically use this to create a default `ConfigObj` and then merge in user settings. This way users only need to specify values that are different from the default. You can use `configspects` and validation to achieve the same thing of course.

The public methods available on `ConfigObj` are :

- \* 'write'
- \* 'validate'
- \* 'reset'
- \* 'reload'

write

~~~~~

.. code-block:: python

```
write(file_object=None)
```

This method writes the current `ConfigObj` and takes a single, optional argument `[#]_`.

If you pass in a file like object to the `write` method, the config file will be written to this. (The only method of this object that is used is its `write` method, so a `StringIO` instance, or any other file like object will work.)

Otherwise, the behaviour of this method depends on the `filename` attribute of the `ConfigObj`.

`filename`

`ConfigObj` will write the configuration to the file specified.

`None`

`write` returns a list of lines. (Not `\n` terminated)

First the `'initial_comment'` is written, then the config file, followed by the `'final_comment'`. Comment lines and inline comments are written with each key/value.

validate

~~~~~

.. code-block:: python

```
validate(validator, preserve_errors=False, copy=False)
```

.. code-block:: python

```
# filename is the config file
# filename2 is the configspec
# (which could also be hardcoded into your program)
config = ConfigObj(filename, configspec=filename2)
#
from validate import Validator
val = Validator()
test = config.validate(val)
if test == True:
    print 'Succeeded.'
```

The validate method uses the `validate`

<http://www.voidspace.org.uk/python/validate.html> `__` module to do the validation.

This method validates the `ConfigObj` against the `configspec`. By doing type conversion as well it can abstract away the config file altogether and present the config \*data\* to your application (in the types it expects it to be).

If the `configspec` attribute of the `ConfigObj` is `None`, it raises a `ValueError`.

If the `stringify_` attribute is set, this process will convert values to the type defined in the `configspec`.

The `validate` method uses checks specified in the `configspec` and defined in the `Validator` object. It is very easy to extend.

The `configspec` looks like the config file, but instead of the value, you specify the check (and any default value). See the `validation_` section for details.

.. hint::

The system of `configspecs` can seem confusing at first, but is actually quite simple and powerful. The best guide to them is this article on

ConfigObj:

\* `An Introduction to ConfigObj` \_

The ``copy`` parameter fills in missing values from the configspec (default values), \*without\* marking the values as defaults. It also causes comments to be copied from the configspec into the config file. This allows you to use a configspec to create default config files. (Normally default values aren't written out by the ``write`` method.)

As of ConfigObj 4.3.0 you can also pass in a ConfigObj instance as your configspec. This is especially useful if you need to specify the encoding of your configspec file. When you read your configspec file, you \*must\* specify ``list\_values=False``. If you need to support hashes inside the configspec values then you must also pass in ``\_inspec=True``. This is because configspec files actually use a different syntax to config files and inline comment support must be switched off to correctly read configspec files with hashes in the values.

.. code-block:: python

```
from configobj import ConfigObj
configspec = ConfigObj(configspecfilename, encoding='UTF8',
                       list_values=False, _inspec=True)
config = ConfigObj(filename, configspec=configspec)
```

Return Value

#####

By default, the validate method either returns ``True`` (everything passed) or a dictionary of ``True`` / ``False`` representing pass/fail. The dictionary follows the structure of the ConfigObj.

If a whole section passes then it is replaced with the value ``True``. If a whole section fails, then it is replaced with the value ``False``.

If a value is missing, and there is no default in the check, then the check automatically fails.

The ``validate`` method takes an optional keyword argument ``preserve\_errors``. If you set this to ``True``, instead of getting ``False`` for failed checks you get the actual error object from the `**validate**` module. This usually contains useful information about why the check failed.

See the `flatten_errors`_` function for how to turn your results dictionary into a useful list of error messages.

Even if `preserve_errors` is `True`, missing keys or sections will still be represented by a `False` in the results dictionary.

### Mentioning Default Values

#####

In the check in your configspec, you can specify a default to be used - by using the `default` keyword. E.g. ::

```
key1 = integer(0, 30, default=15)
key2 = integer(default=15)
key3 = boolean(default=True)
key4 = option('Hello', 'Goodbye', 'Not Today', default='Not Today')
```

If the configspec check supplies a default and the value is missing in the config, then the default will be set in your ConfigObj. (It is still passed to the `Validator` so that type conversion can be done: this means the default value must still pass the check.)

ConfigObj keeps a record of which values come from defaults, using the `defaults` attribute of sections\_. Any key in this list isn't written out by the `write` method. If a key is set from outside (even to the same value) then it is removed from the `defaults` list.

.. note:

Even if all the keys in a section are in the defaults list, the section marker is still written out.

There is additionally a special case default value of `None`. If you set the default value to `None` and the value is missing, the value will always be set to `None`. As the other checks don't return `None` (unless you implement your own that do), you can tell that this value came from a default value (and was missing from the config file). It allows an easy way of implementing optional values. Simply check (and ignore) members that are set to `None`.

.. note::

If `stringify_` is `False` then `default=None` returns `""` instead of `None`. This is because setting a value to a non-string raises an error if `stringify` is unset.

The default value can be a list. See `List Values` for the way to do this.

Writing invalid default values is a *guaranteed* way of confusing your users.

Default values **must** pass the check.

## Mentioning Repeated Sections and Values

#####

In the configspec it is possible to cause *every* sub-section in a section to be validated using the same configspec. You do this with a section in the configspec called ``\_\_many\_\_``. Every sub-section in that section has the ``\_\_many\_\_`` configspec applied to it (without you having to explicitly name them in advance).

Your ``\_\_many\_\_`` section can have nested subsections, which can also include ``\_\_many\_\_`` type sections.

You can also specify that all values should be validated using the same configspec, by having a member with the name ``\_\_many\_\_``. If you want to use repeated values along with repeated sections then you can call one of them ``\_\_many\_\_`` (triple underscores).

Sections with repeated sections or values can also have specifically named sub-sections or values. The ``\_\_many\_\_`` configspec will only be used to validate entries that don't have an explicit configspec.

See `Repeated Sections`\_ for examples.

## Mentioning SimpleVal

#####

If you just want to check if all members are present, then you can use the ``SimpleVal`` object that comes with ConfigObj. It only fails members if they are missing.

Write a configspec that has all the members you want to check for, but set every section to ``""``.

.. code-block:: python

```
val = SimpleVal()
test = config.validate(val)
if test is True:
    print 'Succeeded.'
```

## Mentioning copy Mode

#####

As discussed in `Mentioning Default Values`\_, you can use a configspec to

supply default values. These are marked in the ConfigObj instance as defaults, and *\*not\** written out by the `write` mode. This means that your users only need to supply values that are different from the defaults.

This can be inconvenient if you *\*do\** want to write out the default values, for example to write out a default config file.

If you set `copy=True` when you call `validate`, then no values are marked as defaults. In addition, all comments from the configspec are copied into your ConfigObj instance. You can then call `write` to create your config file.

There is a limitation with this. In order to allow `String Interpolation` to work within configspecs, `DEFAULT` sections are not processed by validation; even in copy mode.

reload  
~~~~~

If a ConfigObj instance was loaded from the filesystem, then this method will reload it. It will also reuse any configspec you supplied at instantiation (including reloading it from the filesystem if you passed it in as a filename).

If the ConfigObj does not have a filename attribute pointing to a file, then a `ReloadError` will be raised.

reset  
~~~~~

This method takes no arguments and doesn't return anything. It restores a ConfigObj instance to a freshly created state.

Attributes  
-----

A ConfigObj has the following attributes :

- \* indent\_type
- \* interpolation
- \* stringify
- \* BOM
- \* initial\_comment
- \* final\_comment
- \* list\_values
- \* encoding

- \* default\_encoding
- \* unrepr
- \* write\_empty\_values
- \* newlines

.. note::

This doesn't include `*comments*`, `*inline_comments*`, `*defaults*`, or `*configspec*`. These are actually attributes of `Sections_`.

It also has the following attributes as a result of parsing. They correspond to options when the `ConfigObj` was created, but changing them has no effect.

- \* raise\_errors
- \* create\_empty
- \* file\_error

### interpolation

~~~~~

`ConfigObj` can perform string interpolation in a *similar* way to `ConfigParser`. See the `String Interpolation` section for full details.

If `interpolation` is set to `False`, then interpolation is *not* done when you fetch values.

### stringify

~~~~~

If this attribute is set (`True`) then the `validate_` method changes the values in the `ConfigObj`. These are turned back into strings when `write_` is called.

If `stringify` is unset (`False`) then attempting to set a value to a non string (or a list of strings) will raise a `TypeError`.

### BOM

~~~

If the initial config file *started* with the UTF8 Unicode signature (known slightly incorrectly as the BOM - Byte Order Mark), or the UTF16 BOM, then this attribute is set to `True`. Otherwise it is `False`.

If it is set to `True` when `write` is called then, if `encoding` is set to `None` *or* to `utf_8` (and variants) a UTF BOM will be written.

For UTF16 encodings, a BOM is *\*always\** written.

initial\_comment

~~~~~

This is a list of lines. If the ConfigObj is created from an existing file, it will contain any lines of comments before the start of the members.

If you create a new ConfigObj, this will be an empty list.

The write method puts these lines before it starts writing out the members.

final\_comment

~~~~~

This is a list of lines. If the ConfigObj is created from an existing file, it will contain any lines of comments after the last member.

If you create a new ConfigObj, this will be an empty list.

The `write` method puts these lines after it finishes writing out the members.

list\_values

~~~~~

This attribute is `True` or `False`. If set to `False` then values are not parsed for list values. In addition single line values are not unquoted.

This allows you to do your own parsing of values. It exists primarily to support the reading of the `configspect_` - but has other use cases.

For example you could use the `LineParser` from the `listquote` module <http://www.voidspace.org.uk/python/listquote.html#lineparser> to read values for nested lists.

Single line values aren't quoted when writing - but multiline values are handled as normal.

.. caution::

Because values aren't quoted, leading or trailing whitespace can be lost. This behaviour was changed in version 4.0.1. Prior to this, single line values might have been quoted; even with `list_values=False`. This means that files written by earlier versions of ConfigObj *\*could\** now be incompatible and need the quotes removing by hand.



encoding

~~~~~

This is the encoding used to encode the output, when you call `write`. It must be a valid encoding recognised by Python <<http://docs.python.org/lib/standard-encodings.html>>.

If this value is `None` then no encoding is done when `write` is called.

default\_encoding

~~~~~

If encoding is set, any byte-strings in your `ConfigObj` instance (keys or members) will first be decoded to Unicode using the encoding specified by the `default_encoding` attribute. This ensures that the output is in the encoding specified.

If this value is `None` then `sys.defaultencoding` is used instead.

unrepr

~~~~~

Another boolean value. If this is set, then `repr(value)` is used to write values. This writes values in a slightly different way to the normal `ConfigObj` file syntax.

This preserves basic Python data-types when read back in. See `unrepr mode` for more details.

write\_empty\_values

~~~~~

Also boolean. If set, values that are an empty string (`''`) are written as empty values. See `Empty Values` for more details.

newlines

~~~~~

When a config file is read, `ConfigObj` records the type of newline separators in the file and uses this separator when writing. It defaults to `None`, and `ConfigObj` uses the system default (`os.sep`) if `write` is called without `newlines` having been set.

## The Config File Format

=====

You saw an example config file in the `Config Files`\_ section. Here is a fuller specification of the config files used and created by ConfigObj.

The basic pattern for keywords is::

```
# comment line
# comment line
keyword = value # inline comment
```

Both keyword and value can optionally be surrounded in quotes. The equals sign is the only valid divider.

Values can have comments on the lines above them, and an inline comment after them. This, of course, is optional. See the comments\_ section for details.

If a keyword or value starts or ends with whitespace, or contains a quote mark or comma, then it should be surrounded by quotes. Quotes are not necessary if whitespace is surrounded by non-whitespace.

Values can also be lists. Lists are comma separated. You indicate a single member list by a trailing comma. An empty list is shown by a single comma::

```
keyword1 = value1, value2, value3
keyword2 = value1, # a single member list
keyword3 = , # an empty list
```

Values that contain line breaks (multi-line values) can be surrounded by triple quotes. These can also be used if a value contains both types of quotes. List members cannot be surrounded by triple quotes::

```
keyword1 = """ A multi line value
on several
lines""" # with a comment
keyword2 = "I won't be "afraid".""
#
keyword3 = """ A multi line value
on several
lines""" # with a comment
keyword4 = """"I won't be "afraid"."""""
```

.. warning::

There is no way of safely quoting values that contain both types of triple quotes.

A line that starts with a '#', possibly preceded by whitespace, is a comment.

New sections are indicated by a section marker line. That is the section name in square brackets. Whitespace around the section name is ignored. The name can be quoted with single or double quotes. The marker can have comments before it and an inline comment after it::

```
# The First Section
[ section name 1 ] # first section
keyword1 = value1

# The Second Section
[ "section name 2" ] # second section
keyword2 = value2
```

Any subsections (sections that are *\*inside\** the current section) are designated by repeating the square brackets before and after the section name. The number of square brackets represents the nesting level of the sub-section. Square brackets may be separated by whitespace; such whitespace, however, will not be present in the output config written by the `write` method.

Indentation is not significant, but can be preserved. See the description of the `indent_type` option, in the `ConfigObj specifications`_` chapter, for the details.`

A *\*NestingError\** will be raised if the number of the opening and the closing brackets in a section marker is not the same, or if a sub-section's nesting level is greater than the nesting level of it parent plus one.

In the outer section, single values can only appear before any sub-section. Otherwise they will belong to the sub-section immediately before them::

```
# initial comment
keyword1 = value1
keyword2 = value2

[section 1]
keyword1 = value1
keyword2 = value2

[[sub-section]]
# this is in section 1
keyword1 = value1
keyword2 = value2

[[[nested section]]]
# this is in sub section
```

```
keyword1 = value1
keyword2 = value2
```

```
[[sub-section2]]
# this is in section 1 again
keyword1 = value1
keyword2 = value2
```

```
[[sub-section3]]
# this is also in section 1, indentation is misleading here
keyword1 = value1
keyword2 = value2
```

```
# final comment
```

When parsed, the above config file produces the following data structure:

```
.. code-block:: python
```

```
ConfigObj({
  'keyword1': 'value1',
  'keyword2': 'value2',
  'section 1': {
    'keyword1': 'value1',
    'keyword2': 'value2',
    'sub-section': {
      'keyword1': 'value1',
      'keyword2': 'value2',
      'nested section': {
        'keyword1': 'value1',
        'keyword2': 'value2',
      },
    },
  },
  'sub-section2': {
    'keyword1': 'value1',
    'keyword2': 'value2',
  },
  'sub-section3': {
    'keyword1': 'value1',
    'keyword2': 'value2',
  },
},
})
```

Sections are ordered: note how the structure of the resulting ConfigObj is in the same order as the original file.

.. note::

In ConfigObj 4.3.0 *\*empty values\** became valid syntax. They are read as the empty string. There is also an option/attribute (``write_empty_values``) to allow the writing of these.

This is mainly to support 'legacy' config files, written from other applications. This is documented under ``Empty Values`_`.

``unrepr mode`_` introduces *\*another\** syntax variation, used for storing basic Python datatypes in config files.

## Sections

=====

Every section in a ConfigObj has certain properties. The ConfigObj itself also has these properties, because it too is a section (sometimes called the *\*root section\**).

``Section`` is a subclass of the standard new-class dictionary, therefore it has *\*\*all\*\** the methods of a normal dictionary. This means you can ``update`` and ``clear`` sections.

.. note::

You create a new section by assigning a member to be a dictionary.

The new ``Section`` is created *\*from\** the dictionary, but isn't the same thing as the dictionary. (So references to the dictionary you use to create the section *\*aren't\** references to the new section).

Note the following.

.. code-block:: python

```
config = ConfigObj()
vals = {'key1': 'value 1',
        'key2': 'value 2'
        }
config['vals'] = vals
config['vals'] == vals
True
config['vals'] is vals
False
```

If you now change ``vals``, the changes won't be reflected in ``config['vals']``.

A section is ordered, following its ``scalars`` and ``sections`` attributes documented below. This means that the following dictionary attributes return their results in order.

\* `'__iter__'`

More commonly known as ``for member in section:``.

\* `'__repr__'` and `'__str__'`

Any time you print or display the ConfigObj.

\* `'items'`

\* `'iteritems'`

\* `'iterkeys'`

\* `'itervalues'`

\* `'keys'`

\* `'popitem'`

\* `'values'`

#### Section Attributes

-----

\* `main`

A reference to the main ConfigObj.

\* `parent`

A reference to the 'parent' section, the section that this section is a member of.

On the ConfigObj this attribute is a reference to itself. You can use this to walk up the sections, stopping when ``section.parent is section``.

\* `depth`

The nesting level of the current section.

If you create a new ConfigObj and add sections, 1 will be added to the

depth level between sections.

\* defaults

This attribute is a list of scalars that came from default values. Values that came from defaults aren't written out by the `write` method. Setting any of these values in the section removes them from the defaults list.

\* default\_values

This attribute is a dictionary mapping keys to the default values for the keys. By default it is an empty dictionary and is populated when you validate the ConfigObj.

\* scalars, sections

These attributes are normal lists, representing the order that members, single values and subsections appear in the section. The order will either be the order of the original config file, \*or\* the order that you added members.

The order of members in this lists is the order that `write` creates in the config file. The `scalars` list is output before the `sections` list.

Adding or removing members also alters these lists. You can manipulate the lists directly to alter the order of members.

.. warning::

If you alter the `scalars`, `sections`, or `defaults` attributes so that they no longer reflect the contents of the section, you will break your ConfigObj.

See also the `rename` method.

\* comments

This is a dictionary of comments associated with each member. Each entry is a list of lines. These lines are written out before the member.

\* inline\_comments

This is *another* dictionary of comments associated with each member. Each entry is a string that is put inline with the member.

\* configspec

The `configspeg` attribute is a dictionary mapping scalars to `*checks*`. A check defines the expected type and possibly the allowed values for a member.

The `configspeg` has the same format as a config file, but instead of values it has a specification for the value (which may include a default value). The `validate_` method uses it to check the config file makes sense. If a `configspeg` is passed in when the `ConfigObj` is created, then it is parsed and broken up to become the ```configspeg``` attribute of each section.

If you didn't pass in a `configspeg`, this attribute will be ```None``` on the root section (the main `ConfigObj`).

You can set the `configspeg` attribute directly on a section.

See the `validation_` section for full details of how to write `configspeg`s.

#### `* extra_values`

By default an empty list. After `validation_` this is populated with any members of the section that don't appear in the `configspeg` (i.e. they are additional values). Rather than accessing this directly it may be more convenient to get all the extra values in a config file using the `get_extra_values_` function.

New in `ConfigObj 4.7.0`.

### Section Methods

-----

#### `***dict**`

This method takes no arguments. It returns a deep copy of the section as a dictionary. All subsections will also be dictionaries, and list values will be copies, rather than references to the original [#]\_.

#### `***rename**`

```rename(oldkey, newkey)```

This method renames a key, without affecting its position in the sequence.

#### `***merge**`

```merge(indict)```

This method is a `*recursive update*` method. It allows you to merge two



config files together.

You would typically use this to create a default ConfigObj and then merge in user settings. This way users only need to specify values that are different from the default.

For example :

```
.. code-block:: python
```

```
# def_cfg contains your default config settings
# user_cfg contains the user settings
cfg = ConfigObj(def_cfg)
usr = ConfigObj(user_cfg)
#
cfg.merge(usr)

"""
cfg now contains a combination of the default settings and the user
settings.

The user settings will have overwritten any of the default ones.
"""
```

```
***walk**
```

This method can be used to transform values and names. See `walking a section`_`` for examples and explanation.

```
***as_bool**
```

```
``as_bool(key)``
```

Returns `True` if the key contains a string that represents `True`, or is the `True` object.

Returns `False` if the key contains a string that represents `False`, or is the `False` object.

Raises a `ValueError` if the key contains anything else.

Strings that represent `True` are (not case sensitive)::

```
true, yes, on, 1
```

Strings that represent `False` are::

```
false, no, off, 0
```

**\*\*\*as\_int\*\***

```as_int(key)```

This returns the value contained in the specified key as an integer.

It raises a ```ValueError``` if the conversion can't be done.

**\*\*\*as\_float\*\***

```as_float(key)```

This returns the value contained in the specified key as a float.

It raises a ```ValueError``` if the conversion can't be done.

**\*\*\*as\_list\*\***

```as_list(key)```

This returns the value contained in the specified key as a list.

If it isn't a list it will be wrapped as a list so that you can guarantee the returned value will be a list.

**\*\*\*restore\_default\*\***

```restore_default(key)```

Restore (and return) the default value for the specified key.

This method will only work for a `ConfigObj` that was created with a `configspec` and has been validated.

If there is no default value for this key, ```KeyError``` is raised.

**\*\*\*restore\_defaults\*\***

```restore_defaults()```

Recursively restore default values to all members that have them.

This method will only work for a ConfigObj that was created with a configspec and has been validated.

It doesn't delete or modify entries without default values.

## Walking a Section

-----

.. note::

The walk method allows you to call a function on every member/name.

.. code-block:: python

```
walk(function, raise_errors=True,
      call_on_sections=False, **kwargs)
```

`walk` is a method of the `Section` object. This means it is also a method of `ConfigObj`.

It walks through every member and calls a function on the keyword and value. It walks recursively through subsections.

It returns a dictionary of all the computed values.

If the function raises an exception, the default is to propagate the error, and stop. If `raise_errors=False` then it sets the return value for that keyword to `False` instead, and continues. This is similar to the way `validation_` works.

Your function receives the arguments `(section, key)`. The current value is then `section[key]` `[#]_`. Any unrecognised keyword arguments you pass to `walk`, are passed on to the function.

Normally `walk` just recurses into subsections. If you are transforming (or checking) names as well as values, then you want to be able to change the names of sections. In this case set `call_on_sections` to `True`. Now, on encountering a sub-section, *first* the function is called for the *whole* sub-section, and *then* it recurses into it's members. This means your function must be able to handle receiving dictionaries as well as strings and lists.

If you are using the return value from `walk` *and* `call_on_sections`, note that `walk` discards the return value when it calls your function.

.. caution::

You can use `walk` to transform the names of members of a section but you mustn't add or delete members.

## Examples

-----

You can use this for transforming all values in your `ConfigObj`. For example you might like the nested lists from `ConfigObj 3`. This was provided by the `listquote_` module. You could switch off the parsing for list values (`list_values=False`) and use `listquote` to parse every value.

Another thing you might want to do is use the Python escape codes in your values. You might be *used* to using `\n` for line feed and `\t` for tab. Obviously we'd need to decode strings that come from the config file (using the escape codes). Before writing out we'll need to put the escape codes back in encode.

As an example we'll write a function to use with `walk`, that encodes or decodes values using the `string-escape` codec.

The function has to take each value and set the new value. As a bonus we'll create one function that will do decode *or* encode depending on a keyword argument.

We don't want to work with section names, we're only transforming values, so we can leave `call_on_sections` as `False`. This means the two datatypes we have to handle are strings and lists, we can ignore everything else. (We'll treat tuples as lists as well).

We're not using the return values, so it doesn't need to return anything, just change the values if appropriate.

.. code-block:: python

```
def string_escape(section, key, encode=False):
    """
    A function to encode or decode using the 'string-escape' codec.
    To be passed to the walk method of a ConfigObj.
    By default it decodes.
    To encode, pass in the keyword argument encode=True.
    """
    val = section[key]
    # is it a type we can work with
    # NOTE: for platforms where Python > 2.2
    # you can use basestring instead of (str, unicode)
    if not isinstance(val, (str, unicode, list, tuple)):
```

```

    # no !
    return
elif isinstance(val, (str, unicode)):
    # it's a string !
    if not encode:
        section[key] = val.decode('string-escape')
    else:
        section[key] = val.encode('string-escape')
else:
    # it must be a list or tuple!
    # we'll be lazy and create a new list
    newval = []
    # we'll check every member of the list
    for entry in val:
        if isinstance(entry, (str, unicode)):
            if not encode:
                newval.append(entry.decode('string-escape'))
            else:
                newval.append(entry.encode('string-escape'))
        else:
            newval.append(entry)
    # done !
    section[key] = newval

# assume we have a ConfigObj called ``config``
#
# To decode
config.walk(string_escape)
#
# To encode.
# Because ``walk`` doesn't recognise the ``encode`` argument
# it passes it to our function.
config.walk(string_escape, encode=True)

```

Here's a simple example of using ``walk`` to transform names and values. One usecase of this would be to create a *standard* config file with placeholders for section and keynames. You can then use walk to create new config files and change values and member names :

```

.. code-block:: python

# We use 'XXXX' as a placeholder
config = ""
XXXXkey1 = XXXXvalue1
XXXXkey2 = XXXXvalue2
XXXXkey3 = XXXXvalue3
[XXXXsection1]

```

```

XXXXkey1 = XXXXvalue1
XXXXkey2 = XXXXvalue2
XXXXkey3 = XXXXvalue3
[XXXXsection2]
XXXXkey1 = XXXXvalue1
XXXXkey2 = XXXXvalue2
XXXXkey3 = XXXXvalue3
  [[XXXXsection1]]
    XXXXkey1 = XXXXvalue1
    XXXXkey2 = XXXXvalue2
    XXXXkey3 = XXXXvalue3
"".splitlines()
cfg = ConfigObj(config)
#
def transform(section, key):
    val = section[key]
    newkey = key.replace('XXXX', 'CLIENT1')
    section.rename(key, newkey)
    if isinstance(val, (tuple, list, dict)):
        pass
    else:
        val = val.replace('XXXX', 'CLIENT1')
        section[newkey] = val
#
cfg.walk(transform, call_on_sections=True)
print cfg
ConfigObj({'CLIENT1key1': 'CLIENT1value1', 'CLIENT1key2': 'CLIENT1value2',
'CLIENT1key3': 'CLIENT1value3',
'CLIENT1section1': {'CLIENT1key1': 'CLIENT1value1',
'CLIENT1key2': 'CLIENT1value2', 'CLIENT1key3': 'CLIENT1value3'},
'CLIENT1section2': {'CLIENT1key1': 'CLIENT1value1',
'CLIENT1key2': 'CLIENT1value2', 'CLIENT1key3': 'CLIENT1value3',
'CLIENT1section1': {'CLIENT1key1': 'CLIENT1value1',
'CLIENT1key2': 'CLIENT1value2', 'CLIENT1key3': 'CLIENT1value3'}}})

```

## Exceptions

=====

There are several places where ConfigObj may raise exceptions (other than because of bugs).

1) If a configspec filename you pass in doesn't exist, or a config file filename doesn't exist \*and\* ``file\_error=True``, an ``IOError`` will be raised.

2) If you try to set a non-string key, or a non string value when ``stringify=False``, a ``TypeError`` will be raised.

- 3) A badly built config file will cause parsing errors.
- 4) A parsing error can also occur when reading a configspec.
- 5) In string interpolation you can specify a value that doesn't exist, or create circular references (recursion).

Number 5 (which is actually two different types of exceptions) is documented in ``String Interpolation`_`.

*\*This\** section is about errors raised during parsing.

The base error class is ``ConfigObjError``. This is a subclass of ``SyntaxError``, so you can trap for ``SyntaxError`` without needing to directly import any of the `ConfigObj` exceptions.

The following other exceptions are defined (all deriving from ``ConfigObjError``):

*\* `NestingError`*

This error indicates either a mismatch in the brackets in a section marker, or an excessive level of nesting.

*\* `ParseError`*

This error indicates that a line is badly written. It is neither a valid ``key = value`` line, nor a valid section marker line, nor a comment line.

*\* `DuplicateError`*

The keyword or section specified already exists.

*\* `ConfigspecError`*

An error occurred whilst parsing a configspec.

*\* `UnreprError`*

An error occurred when parsing a value in ``unrepr mode`_`.

*\* `ReloadError`*

``reload`` was called on a `ConfigObj` instance that doesn't have a valid filename attribute.

When parsing a configspec, `ConfigObj` will stop on the first error it

encounters. It will raise a `ConfigspecError`. This will have an `error` attribute, which is the actual error that was raised.

Behaviour when parsing a config file depends on the option `raise_errors`. If `ConfigObj` encounters an error while parsing a config file:

If `raise_errors=True` then `ConfigObj` will raise the appropriate error and parsing will stop.

If `raise_errors=False` (the default) then parsing will continue to the end and *all* errors will be collected.

If `raise_errors` is False and multiple errors are found a `ConfigObjError` is raised. The error raised has a `config` attribute, which is the parts of the `ConfigObj` that parsed successfully. It also has an attribute `errors`, which is a list of *all* the errors raised. Each entry in the list is an instance of the appropriate error type. Each one has the following attributes (useful for delivering a sensible error message to your user) :

\* `line`: the original line that caused the error.

\* `line_number`: its number in the config file.

\* `message`: the error message that accompanied the error.

If only one error is found, then that error is re-raised. The error still has the `config` and `errors` attributes. This means that your error handling code can be the same whether one error is raised in parsing , or several.

It also means that in the most common case (a single error) a useful error message will be raised.

.. note::

One wrongly written line could break the basic structure of your config file. This could cause every line after it to flag an error, so having a list of all the lines that caused errors may not be as useful as it sounds.

Validation

=====

.. hint::

The system of configspecs can seem confusing at first, but is actually quite simple and powerful. The best reference is my article on `ConfigObj`:

\* `An Introduction to ConfigObj`_`



Validation is done through a combination of the `configspec_` and a `Validator` object. For this you need `*validate.py* [#]_`. See `downloading_` if you don't have a copy.

Validation can perform two different operations :

- 1) Check that a value meets a specification. For example, check that a value is an integer between one and six, or is a choice from a specific set of options.
- 2) It can convert the value into the type required. For example, if one of your values is a port number, validation will turn it into an integer for you.

So validation can act as a transparent layer between the datatypes of your application configuration (boolean, integers, floats, etc) and the text format of your config file.

`configspec`

-----

The `validate` method checks members against an entry in the `configspec`. Your `configspec` therefore resembles your config file, with a check for every member.

In order to perform validation you need a `Validator` object. This has several useful built-in check functions. You can also create your own custom functions and register them with your `Validator` object.

Each check is the name of one of these functions, including any parameters and keyword arguments. The `configspecs` look like function calls, and they map to function calls.

The basic datatypes that an un-extended `Validator` can test for are :

- \* boolean values (True and False)
- \* integers (including minimum and maximum values)
- \* floats (including min and max)
- \* strings (including min and max length)
- \* IP addresses (v4 only)

It can also handle lists of these types and restrict a value to being one from a set of options.

An example `configspec` is going to look something like::

```
port = integer(0, 100)
user = string(max=25)
mode = option('quiet', 'loud', 'silent')
```

You can specify default values, and also have the same configspec applied to several sections. This is called `repeated sections`.

For full details on writing configspecs, please refer to the `validate.py documentation`.

.. important::

Your configspec is read by ConfigObj in the same way as a config file.

That means you can do interpolation *within* your configspec.

In order to allow this, checks in the 'DEFAULT' section (of the root level of your configspec) are *not* used.

If you want to use a configspec *without* interpolation being done in it you can create your configspec manually and switch off interpolation:

.. code-block:: python

```
from configobj import ConfigObj

configspec = ConfigObj(spec_filename, interpolation=False, list_values=False,
                       _inspect=True)
conf = ConfigObj(config_filename, configspec=configspec)
```

If you need to specify the encoding of your configspec, then you can pass in a ConfigObj instance as your configspec. When you read your configspec file, you *must* specify ``list\_values=False``. If you need to support hashes in configspec values then you must also pass in ``\_inspect=True``.

.. code-block:: python

```
from configobj import ConfigObj
configspec = ConfigObj(configspecfilename, encoding='UTF8',
                       list_values=False, _inspect=True)
config = ConfigObj(filename, configspec=configspec)
```

.. \_validate.py documentation: <http://www.voidspace.org.uk/python/validate.html>

Type Conversion

-----

By default, validation does type conversion. This means that if you specify `integer` as the check, then calling `validate_` will actually change the value to an integer (so long as the check succeeds).

It also means that when you call the `write_` method, the value will be converted back into a string using the `str` function.

To switch this off, and leave values as strings after validation, you need to set the `stringify_` attribute to `False`. If this is the case, attempting to set a value to a non-string will raise an error.

## Default Values

-----

You can set a default value in your check. If the value is missing from the config file then this value will be used instead. This means that your user only has to supply values that differ from the defaults.

If you *don't* supply a default then for a value to be missing is an error, and this will show in the `return value`_` from `validate`.

Additionally you can set the default to be `None`. This means the value will be set to `None` (the object) *whichever check is used*. (It will be set to `""` rather than `None` if `stringify_` is `False`). You can use this to easily implement optional values in your config files. ::

```
port = integer(0, 100, default=80)
user = string(max=25, default=0)
mode = option('quiet', 'loud', 'silent', default='loud')
nick = string(default=None)
```

.. note::

Because the default goes through type conversion, it also has to pass the check.

Note that `default=None` is case sensitive.

## List Values

~~~~~

It's possible that you will want to specify a list as a default value. To avoid confusing syntax with commas and quotes you use a list constructor to specify that keyword arguments are lists. This includes the `default` value. This makes checks look something like::

```
checkname(default=list('val1', 'val2', 'val3'))
```

This works with all keyword arguments, but is most useful for default values.

## Repeated Sections

-----

Repeated sections are a way of specifying a configspec for a section that should be applied to all unspecified subsections in the same section.

The easiest way of explaining this is to give an example. Suppose you have a config file that describes a dog. That dog has various attributes, but it can also have many fleas. You don't know in advance how many fleas there will be, or what they will be called, but you want each flea validated against the same configspec.

We can define a section called \*fleas\*. We want every flea in that section (every sub-section) to have the same configspec applied to it. We do this by defining a single section called ``\_\_many\_\_``. ::

```
[dog]
name = string(default=Rover)
age = float(0, 99, default=0)

[[fleas]]

[[__many__]]
bloodsucker = boolean(default=True)
children = integer(default=10000)
size = option(small, tiny, micro, default=tiny)
```

Every flea on our dog will now be validated using the ``\_\_many\_\_`` configspec.

``\_\_many\_\_`` sections can have sub-sections, including their own ``\_\_many\_\_`` sub-sections. Defaults work in the normal way in repeated sections.

## Repeated Values

-----

As well as using ``\_\_many\_\_`` to validate unspecified sections you can use it to validate values. For example, to specify that all values in a section should be integers::

```
[section]
__many__ = integer
```

If you want to use repeated values alongside repeated sections you can call one ``\_\_many\_\_`` and the

other ``\_\_\_many\_\_\_`` (with three underscores).

## Copy Mode

-----

Because you can specify default values in your configspec, you can use ConfigObj to write out default config files for your application.

However, normally values supplied from a default in a configspec are *\*not\** written out by the ``write`` method.

To do this, you need to specify ``copy=True`` when you call validate. As well as not marking values as default, all the comments in the configspec file will be copied into your ConfigObj instance.

.. code-block:: python

```
from configobj import ConfigObj
from validate import Validator
vdt = Validator()
config = ConfigObj(configspec='default.ini')
config.filename = 'new_default.ini'
config.validate(vdt, copy=True)
config.write()
```

If you need to support hashes in the configspec values then you must create it with ``\_inspec=True``. This has the side effect of switching off the parsing of inline comments, meaning that they won't be copied into the new config file. (ConfigObj syntax is slightly different from configspec syntax and the parser can't support both inline comments and hashes in configspec values.)

## Validation and Interpolation

-----

String interpolation and validation don't play well together. When validation changes type it sets the value. If the value uses interpolation, then the interpolation reference would normally be overwritten. Calling ``write`` would then use the absolute value and the interpolation reference would be lost.

As a compromise - if the value is unchanged by validation then it is not reset. This means strings that pass through validation unmodified will not be overwritten. If validation changes type - the value has to be overwritten, and any interpolation references are lost.

## Extra Values

-----

After validation the ``extra\_values`` member of every section that is listed in the configspec will be populated with the names of members that are in the config file but not in the configspec.

If you are reporting configuration errors to your user this information can be useful, for example some missing entries may be due to misspelt entries that appear as extra values.

See the `get_extra_values_function`

New in ConfigObj 4.7.0.

## SimpleVal

-----

You may not need a full validation process, but still want to check if all the expected values are present.

Provided as part of the ConfigObj module is the ``SimpleVal`` object. This has a dummy ``test`` method that always passes.

The only reason a test will fail is if the value is missing. The return value from ``validate`` will either be ``True``, meaning all present, or a dictionary with ``False`` for all missing values/sections.

To use it, you still need to pass in a valid configspec when you create the ConfigObj, but just set all the values to ``""``. Then create an instance of ``SimpleVal`` and pass it to the ``validate`` method.

As a trivial example if you had the following config file::

```
# config file for an application
port = 80
protocol = http
domain = voidspace
top_level_domain = org.uk
```

You would write the following configspec::

```
port = "
protocol = "
domain = "
top_level_domain = "
```

.. code-block:: python

```
config = ConfigObj(filename, configspec=configspec)
val = SimpleVal()
test = config.validate(val)
if test == True:
    print 'All values present.'
elif test == False:
    print 'No values present!'
else:
    for entry in test:
        if test[entry] == False:
            print "%s" missing.' % entry
```

Empty values

=====

Many config files from other applications allow empty values. As of version 4.3.0, ConfigObj will read these as an empty string.

A new option/attribute has been added (`write_empty_values`) to allow ConfigObj to write empty strings as empty values.

.. code-block:: python

```
from configobj import ConfigObj
cfg = ""
    key =
    key2 = # a comment
"".splitlines()
config = ConfigObj(cfg)
print config
ConfigObj({'key': "", 'key2': ""})

config.write_empty_values = True
for line in config.write():
    print line

key =
key2 = # a comment
```

unrepr mode

=====

The ```unrepr``` option allows you to store and retrieve the basic Python data-types using config files. It has to use a slightly different syntax to normal ConfigObj files. Unsurprisingly it uses Python syntax.

This means that lists are different (they are surrounded by square brackets), and strings *must* be quoted.

The types that ```unrepr``` can work with are :

- | strings, lists tuples
- | None, True, False
- | dictionaries, integers, floats
- | longs and complex numbers

You can't store classes, types or instances.

```unrepr``` uses ```repr(object)``` to write out values, so it currently *doesn't* check that you are writing valid objects. If you attempt to read an unsupported value, ConfigObj will raise a ```configobj.UnknownType``` exception.

Values that are triple quoted cased. The triple quotes are removed *before* converting. This means that you can use triple quotes to write dictionaries over several lines in your config files. They won't be written like this though.

If you are writing config files by hand, for use with ```unrepr```, you should be aware of the following differences from normal ConfigObj syntax :

- | List : ```['A List', 'With', 'Strings']```
- | Strings : ```"Must be quoted."```
- | Backslash : ```"The backslash must be escaped \\\```

These all follow normal Python syntax.

In unrepr mode *inline comments* are not saved. This is because lines are parsed using the ```compiler``` package <http://docs.python.org/lib/compiler.html> which discards comments.

## String Interpolation

=====

.. note::

String interpolation can slow down (slightly) the fetching of values from your config object. If you aren't using interpolation and it is performance critical then create your instance with ```interpolation=False```.



`ConfigObj` allows string interpolation \*similar\* to the way `ConfigParser` or `string.Template` work. The value of the `interpolation` attribute determines which style of interpolation you want to use. Valid values are "ConfigParser" or "Template" (case-insensitive, so "configparser" and "template" will also work). For backwards compatibility reasons, the value `True` is also a valid value for the `interpolation` attribute, and will select `ConfigParser`-style interpolation. At some undetermined point in the future, that default \*may\* change to `Template`-style interpolation.

For `ConfigParser`-style interpolation, you specify a value to be substituted by including `%(name)s` in the value.

For `Template`-style interpolation, you specify a value to be substituted by including `${cl}name{cr}` in the value. Alternately, if 'name' is a valid Python identifier (i.e., is composed of nothing but alphanumeric characters, plus the underscore character), then the braces are optional and the value can be written as `$name`.

Note that `ConfigParser`-style interpolation and `Template`-style interpolation are mutually exclusive; you cannot have a configuration file that's a mix of one or the other. Pick one and stick to it. `Template`-style interpolation is simpler to read and write by hand, and is recommended if you don't have a particular reason to use `ConfigParser`-style.

Interpolation checks first the current section to see if `name` is the key to a value. ('name' is case sensitive).

If it doesn't find it, next it checks the 'DEFAULT' sub-section of the current section.

If it still doesn't find it, it moves on to check the parent section and the parent section's 'DEFAULT' subsection, and so on all the way up to the main section.

If the value specified isn't found in any of these locations, then a `MissingInterpolationOption` error is raised (a subclass of `ConfigObjError`).

If it is found then the returned value is also checked for substitutions. This allows you to make up compound values (for example directory paths) that use more than one default value. It also means it's possible to create circular references. If there are any circular references which would cause an infinite interpolation loop, an `InterpolationLoopError` is raised.

Both of these errors are subclasses of `InterpolationError`, which is a subclass of `ConfigObjError`.

String interpolation and validation don't play well together. This is because validation overwrites values - and so may erase the interpolation references. See `Validation and Interpolation`\_. (This can only happen if validation has to *change* the value).

New in ConfigObj 4.7.0: String interpolation is now done in members of list values.

### String Interpolation and List Values

-----

Since version 4.7 string interpolation is done on string members of list values. If interpolation changes any members of the list then what you get back is a *copy* of the list rather than the original list.

This makes fetching list values slightly slower when interpolation is on, it also means that if you mutate the list changes won't be reflected in the original list:

.. code-block:: python

```
>>> c = ConfigObj()
>>> c['foo'] = 'boo'
>>> c['bar'] = ['%(foo)s']
>>> c['bar']
['boo']
>>> c['bar'].append('fish')
>>> c['bar']
['boo']
```

Instead of mutating the list you must create a new list and reassign it.

### Comments

=====

Any line that starts with a '#', possibly preceded by whitespace, is a comment.

If a config file starts with comments then these are preserved as the `initial_comment_`.

If a config file ends with comments then these are preserved as the `final_comment_`.

Every key or section marker may have lines of comments immediately above it. These are saved as the `comments` attribute of the section. Each member is a list of lines.`

You can also have a comment inline with a value. These are saved as the `inline_comments` attribute of the section, with one entry per member of the section.

Subsections (section markers in the config file) can also have comments.

See `Section Attributes` for more on these attributes.

These comments are all written back out by the `write` method.

```
flatten_errors
=====
```

```
.. code-block:: python
```

```
    flatten_errors(cfg, res)
```

`Validation` is a powerful way of checking that the values supplied by the user make sense.

The `validate` method returns a results dictionary that represents pass or fail for each value. This doesn't give you any information about *why* the check failed.

`flatten_errors` is an example function that turns a results dictionary into a flat list, that only contains values that *failed*.

`cfg` is the `ConfigObj` instance being checked, `res` is the results dictionary returned by `validate`.

It returns a list of keys that failed. Each member of the list is a tuple::

```
([list of sections...], key, result)
```

If `validate` was called with `preserve_errors=False` (the default) then `result` will always be `False`.

*list of sections* is a flattened list of sections that the key was found in.

If the section was missing then key will be `None`.

If the value (or section) was missing then `result` will be `False`.

If `validate` was called with `preserve_errors=True` and a value was present, but failed the check, then `result` will be the exception

object returned. You can use this as a string that describes the failure.

For example :

```
*The value "3" is of the wrong type*.
```

Example Usage

-----

The output from `flatten_errors` is a list of tuples.

Here is an example of how you could present this information to the user.

```
.. code-block:: python
```

```
vtor = validate.Validator()
# ini is your config file - cs is the configspec
cfg = ConfigObj(ini, configspec=cs)
res = cfg.validate(vtor, preserve_errors=True)
for entry in flatten_errors(cfg, res):
    # each entry is a tuple
    section_list, key, error = entry
    if key is not None:
        section_list.append(key)
    else:
        section_list.append('[missing section]')
    section_string = ', '.join(section_list)
    if error == False:
        error = 'Missing value or section.'
    print section_string, ' = ', error
```

```
get_extra_values
```

```
=====
```

```
.. code-block:: python
```

```
get_extra_values(conf)
```

New in ConfigObj 4.7.0.

Find all the values and sections not in the configspec from a validated ConfigObj.

`get_extra_values` returns a list of tuples where each tuple represents

either an extra section, or an extra value.

The tuples contain two values, a tuple representing the section the value is in and the name of the extra values. For extra values in the top level section the first member will be an empty tuple. For values in the 'foo' section the first member will be ``('foo',)``. For members in the 'bar' subsection of the 'foo' section the first member will be ``('foo', 'bar')``.

Extra sections will only have one entry. Values and subsections inside an extra section aren't listed separately.

NOTE: If you call ``get\_extra\_values`` on a ConfigObj instance that hasn't been validated it will return an empty list.

#### Example Usage

-----

The output from ``get\_extra\_values`` is a list of tuples.

Here is an example of how you could present this information to the user.

.. code-block:: python

```
vtor = validate.Validator()
# ini is your config file - cs is the configspec
cfg = ConfigObj(ini, configspec=cs)
cfg.validate(vtor, preserve_errors=True)

for sections, name in get_extra_values(cfg):

    # this code gets the extra values themselves
    the_section = cfg
    for section in sections:
        the_section = cfg[section]

    # the_value may be a section or a value
    the_value = the_section[name]

    section_or_value = 'value'
    if isinstance(the_value, dict):
        # Sections are subclasses of dict
        section_or_value = 'section'

    section_string = ', '.join(sections) or "top level"
    print 'Extra entry in section: %s. Entry %r is a %s' % (section_string, name, section_or_value)
```

## CREDITS

=====

ConfigObj 4 is written by (and copyright) `Michael Foord`\_ and  
`Nicola Larosa`\_.

Particularly thanks to Nicola Larosa for help on the config file spec, the  
validation system and the doctests.

\*validate.py\* was originally written by Michael Foord and Mark Andrews.

Thanks to many others for input, patches and bugfixes.

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=====

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## TODO

====

Better support for configuration from multiple files, including tracking \*where\* the original file came from and writing changes to the correct file.

Make ``newline`` a keyword argument (as well as an attribute) ?

``UTF16`` encoded files, when returned as a list of lines, will have the BOM at the start of every line. Should this be removed from all but the first line ?

Option to set warning type for unicode decode ? (Defaults to strict).

A method to optionally remove uniform indentation from multiline values. (do as an example of using ``walk`` - along with string-escape)

Should the results dictionary from validate be an ordered dictionary if `odict` <<http://www.voidspace.org.uk/python/odict.html>>\_ is available ?

Implement some of the sequence methods (which include slicing) from the newer ``odict`` ?

Preserve line numbers of values (and possibly the original text of each value).

## ISSUES

=====

.. note::

Please file any bug reports to `Michael Foord`\_ or the **\*\*ConfigObj\*\*** `Mailing List`\_.

There is currently no way to specify the encoding of a configspec file.

As a consequence of the changes to configspec handling in version 4.6.0, when you create a ConfigObj instance and provide a configspec, the configspec attribute is only set on the ConfigObj instance - it isn't set on the sections until you validate. You also can't set the configspec attribute to be a dictionary. This wasn't documented but did work previously.

In order to fix the problem with hashes in configspecs I had to turn off the parsing of inline comments in configspecs. This will only affect you if you are using ``copy=True`` when validating and expecting inline comments to be copied from the configspec into the ConfigObj instance (all other comments will be copied as usual).

If you *create* the configspec by passing in a ConfigObj instance (usual way is to pass in a filename or list of lines) then you should pass in ``\_inspec=True`` to the constructor to allow hashes in values. This is the magic that switches off inline comment parsing.

When using ``copy`` mode for validation, it won't copy ``DEFAULT`` sections. This is so that you *can* use interpolation in configspec files. This is probably true even if interpolation is off in the configspec.

You can't have a keyword with the same name as a section (in the same section). They are both dictionary keys - so they would overlap.

ConfigObj doesn't quote and unquote values if ``list\_values=False``. This means that leading or trailing whitespace in values will be lost when writing. (Unless you manually quote).

Interpolation checks first the current section, then the 'DEFAULT' subsection of the current section, before moving on to the current section's parent and so on up the tree.

Does it matter that we don't support the ':' divider, which is supported by ``ConfigParser`` ?

String interpolation and validation don't play well together. When validation changes type it sets the value. This will correctly fetch the value using interpolation - but then overwrite the interpolation reference. If the value is unchanged by validation (it's a string) - but other types will be.

## CHANGELOG

=====

This is an abbreviated changelog showing the major releases up to version 4.

From version 4 it lists all releases and changes.



2010/02/27 - Version 4.7.2

-----

- \* BUGFIX: Restore Python 2.3 compatibility
- \* BUGFIX: Members that were lists were being returned as copies due to interpolation introduced in 4.7. Lists are now only copies if interpolation changes a list member.
- \* BUGFIX: ``pop`` now does interpolation in list values as well.
- \* BUGFIX: where interpolation matches a section name rather than a value it is ignored instead of raising an exception on fetching the item.
- \* BUGFIX: values that use interpolation to reference members that don't exist can now be repr'd.
- \* BUGFIX: Fix to avoid writing '\\r\\r\\n' on Windows when given a file opened in text write mode ('w').

See `String Interpolation and List Values`\_ for information about the problem with lists and interpolation.

2010/02/06 - Version 4.7.1

-----

- \* Fix bug in options deprecation warning added in 4.7.0

2010/01/09 - Version 4.7.0

-----

- \* Minimum supported version of Python is now 2.3
- \* ~25% performance improvement thanks to Christian Heimes
- \* String interpolation now works in list value members
- \* After validation any additional entries not in the configspec are listed in the ``extra\_values`` section member
- \* Addition of the ``get\_extra\_values`` function for finding all extra values in a validated ConfigObj instance
- \* Deprecated the use of the ``options`` dictionary in the ConfigObj constructor and added explicit keyword arguments instead. Use \\\*\\\*options if you want to initialise a ConfigObj instance from a dictionary
- \* Constructing a ConfigObj from an existing ConfigObj instance now preserves the order of values and sections from the original instance in the new one
- \* BUGFIX: Checks that failed validation would not populate ``default\_values`` and ``restore\_default\_value()`` wouldn't work for those entries
- \* BUGFIX: clear() now clears 'defaults'
- \* BUGFIX: empty values in list values were accidentally valid syntax. They now raise a ``ParseError``. e.g. "value = 1, , 2"
- \* BUGFIX: Change to the result of a call to ``validate`` when ``preserve\_errors`` is True. Previously sections where \*all\* values failed validation would

return False for the section rather than preserving the errors. False will now only be returned for a section if it is missing

- \* Distribution includes version 1.0.1 of validate.py
- \* Removed `__revision__` and `__docformat__`

2009/04/13 - Version 4.6.0

-----

- \* Pickling of ConfigObj instances now supported (thanks to Christian Heimes)
- \* Hashes in configspecs are now allowed (see note below)
- \* Replaced use of `hasattr` (which can swallow exceptions) with `getattr`
- \* `__many__` in configspecs can refer to scalars (ordinary values) as well as sections
- \* You can use `___many___` (three underscores!) where you want to use `__many__` as well
- \* You can now have normal sections inside configspec sections that use `__many__`
- \* You can now create an empty ConfigObj with a configspec, programmatically set values and then validate
- \* A section that was supplied as a value (or vice-versa) in the actual config file would cause an exception during validation (the config file is still broken of course, but it is now handled gracefully)
- \* Added `as_list` method
- \* Removed the deprecated `istruer`, `encode` and `decode` methods
- \* Running `test_configobj.py` now also runs the doctests in the `configobj` module

As a consequence of the changes to configspec handling, when you create a ConfigObj instance and provide a configspec, the configspec attribute is only set on the ConfigObj instance - it isn't set on the sections until you validate. You also can't set the configspec attribute to be a dictionary. This wasn't documented but did work previously.

In order to fix the problem with hashes in configspecs I had to turn off the parsing of inline comments in configspecs. This will only affect you if you are using `copy=True` when validating and expecting inline comments to be copied from the configspec into the ConfigObj instance (all other comments will be copied as usual).

If you *create* the configspec by passing in a ConfigObj instance (usual way is to pass in a filename or list of lines) then you should pass in `inspect=True` to the constructor to allow hashes in values. This is the magic that switches off inline comment parsing.

2008/06/27 - Version 4.5.3

-----

BUGFIX: fixed a problem with `copy=True` when validating with configspecs that use `__many__` sections.

2008/02/05 - Version 4.5.2

-----

Distribution updated to include version 0.3.2 of `validate_`. This means that

``None`` as a default value in configspecs works.

2008/02/05 - Version 4.5.1

-----

Distribution updated to include version 0.3.1 of validate\_. This means that Unicode configspecs now work.

2008/02/05 - Version 4.5.0

-----

ConfigObj will now guarantee that files will be written terminated with a newline.

ConfigObj will no longer attempt to import the ``validate`` module, until/unless you call ``ConfigObj.validate`` with ``preserve\_errors=True``. This makes it faster to import.

New methods ``restore\_default`` and ``restore\_defaults``. ``restore\_default`` resets an entry to its default value (and returns that value). ``restore\_defaults`` resets all entries to their default value. It doesn't modify entries without a default value. You must have validated a ConfigObj (which populates the ``default\_values`` dictionary) before calling these methods.

BUGFIX: Proper quoting of keys, values and list values that contain hashes (when writing). When ``list\_values=False``, values containing hashes are triple quoted.

Added the ``reload`` method. This reloads a ConfigObj from file. If the filename attribute is not set then a ``ReloadError`` (a new exception inheriting from ``IOError``) is raised.

BUGFIX: Files are read in with 'rb' mode, so that native/non-native line endings work!

Minor efficiency improvement in ``unrepr`` mode.

Added missing docstrings for some overridden dictionary methods.

Added the ``reset`` method. This restores a ConfigObj to a freshly created state.

Removed old CHANGELOG file.

2007/02/04 - Version 4.4.0

-----

Official release of 4.4.0

2006/12/17 - Version 4.3.3-alpha4

-----

By Nicola Larosa

Allowed arbitrary indentation in the `indent_type` parameter, removed the `NUM_INDENT_SPACES` and `MAX_INTERPOL_DEPTH` (a leftover) constants, added indentation tests (including another docutils workaround, sigh), updated the documentation.

By Michael Foord

Made the import of `compiler` conditional so that `ConfigObj` can be used with `IronPython` <<http://www.codeplex.com/IronPython>>`\_.

2006/12/17 - Version 4.3.3-alpha3

-----

By Nicola Larosa

Added a missing `self` in the `_handle_comment` method and a related test, per Sourceforge bug #1523975.

2006/12/09 - Version 4.3.3-alpha2

-----

By Nicola Larosa

Changed interpolation search strategy, based on this patch by Robin Munn: [http://sourceforge.net/mailarchive/message.php?msg\\_id=17125993](http://sourceforge.net/mailarchive/message.php?msg_id=17125993)

2006/12/09 - Version 4.3.3-alpha1

-----

By Nicola Larosa

Added Template-style interpolation, with tests, based on this patch by Robin Munn: [http://sourceforge.net/mailarchive/message.php?msg\\_id=17125991](http://sourceforge.net/mailarchive/message.php?msg_id=17125991) (awful archives, bad Sourceforge, bad).

2006/06/04 - Version 4.3.2

-----  
Changed error handling, if parsing finds a single error then that error will be re-raised. That error will still have an `errors` and a `config` attribute.

Fixed bug where `\n` terminated files could be truncated.

Bugfix in `unrepr` mode, it couldn't handle `#` in values. (Thanks to Philippe Normand for the report.)

As a consequence of this fix, `ConfigObj` doesn't now keep inline comments in `unrepr` mode. This is because the parser in the `compiler package`_`` doesn't keep comments.

Error messages are now more useful. They tell you the number of parsing errors and the line number of the first error. (In the case of multiple errors.)

Line numbers in exceptions now start at 1, not 0.

Errors in `unrepr` mode are now handled the same way as in the normal mode. The errors stored will be an `UnreprError`.

2006/04/29 - Version 4.3.1  
-----

Added `validate.py` back into `configobj.zip`. (Thanks to Stewart Midwinter)

Updated to `validate.py`_` 0.2.2`.

Preserve tuples when calling the `dict` method. (Thanks to Gustavo Niemeyer.)

Changed `__repr__` to return a string that contains `ConfigObj({ ... })`.

Change so that an options dictionary isn't modified by passing it to `ConfigObj`. (Thanks to Artarious.)

Added ability to handle negative integers in `unrepr`. (Thanks to Kevin Dangoor.)

2006/03/24 - Version 4.3.0  
-----

Moved the tests and the CHANGELOG (etc) into a separate file. This has reduced the size of `configobj.py` by about 40%.

Added the `unrepr` mode to reading and writing config files. Thanks to Kevin Dangoor for this suggestion.

Empty values are now valid syntax. They are read as an empty string `""`. (`key =`, or `key = # comment`.)

`validate` now honours the order of the configspec.

Added the `copy` mode to validate. Thanks to Louis Cordier for this suggestion.

Fixed bug where files written on windows could be given `\r\r\n` line terminators.

Fixed bug where last occurring comment line could be interpreted as the final comment if the last line isn't terminated.

Fixed bug where nested list values would be flattened when `write` is called. Now sub-lists have a string representation written instead.

Deprecated `encode` and `decode` methods instead.

You can now pass in a `ConfigObj` instance as a configspec (remember to read the configspec file using `list_values=False`).

Sorted footnotes in the docs.

2006/02/16 - Version 4.2.0

-----

Removed `BOM_UTF8` from `__all__`.

The `BOM` attribute has become a boolean. (Defaults to `False`.) It is *only* `True` for the `UTF16/UTF8` encodings.

File like objects no longer need a `seek` attribute.

Full unicode support added. New options/attributes `encoding`, `default_encoding`.

`ConfigObj` no longer keeps a reference to file like objects. Instead the `write` method takes a file like object as an optional argument. (Which will be used in preference of the `filename` attribute if that exists as well.)

utf16 files decoded to unicode.

If ``BOM`` is ``True``, but no encoding specified, then the utf8 BOM is written out at the start of the file. (It will normally only be ``True`` if the utf8 BOM was found when the file was read.)

Thanks to Aaron Bentley for help and testing on the unicode issues.

File paths are *\*not\** converted to absolute paths, relative paths will remain relative as the ``filename`` attribute.

Fixed bug where ``final\_comment`` wasn't returned if ``write`` is returning a list of lines.

Deprecated ``istru``e``, replaced it with ``as\_bool``.

Added ``as\_int`` and ``as\_float``.

2005/12/14 - Version 4.1.0

-----

Added ``merge``, a recursive update.

Added ``preserve\_errors`` to ``validate`` and the ``flatten\_errors`` example function.

Thanks to Matthew Brett for suggestions and helping me iron out bugs.

Fixed bug where a config file is *\*all\** comment, the comment will now be ``initial\_comment`` rather than ``final\_comment``.

Validation no longer done on the 'DEFAULT' section (only in the root level). This allows interpolation in configspecs.

Also use the new list syntax in validate\_0.2.1. (For configspecs).

2005/12/02 - Version 4.0.2

-----

Fixed bug in ``create\_empty``. Thanks to Paul Jimenez for the report.

2005/11/05 - Version 4.0.1

-----

Fixed bug in ``Section.walk`` when transforming names as well as values.

Added the `istru` method. (Fetches the boolean equivalent of a string value).

Fixed `list_values=False` - they are now only quoted/unquoted if they are multiline values.

List values are written as `item, item` rather than `item,item`.

2005/10/17 - Version 4.0.0

-----

**\*\*ConfigObj 4.0.0 Final\*\***

Fixed bug in `setdefault`. When creating a new section with `setdefault` the reference returned would be to the dictionary passed in *not* to the new section. Bug fixed and behaviour documented.

Obscure typo/bug fixed in `write`. Wouldn't have affected anyone though.

2005/09/09 - Version 4.0.0 beta 5

-----

Removed `PositionError`.

Allowed quotes around keys as documented.

Fixed bug with commas in comments. (matched as a list value)

2005/09/07 - Version 4.0.0 beta 4

-----

Fixed bug in `__delitem__`. Deleting an item no longer deletes the `inline_comments` attribute.

Fixed bug in initialising `ConfigObj` from a `ConfigObj`.

Changed the mailing list address.

2005/08/28 - Version 4.0.0 beta 3

-----

Interpolation is switched off before writing out files.

Fixed bug in handling `StringIO` instances. (Thanks to report from



Gustavo Niemeyer.)

Moved the doctests from the ``\_\_init\_\_`` method to a separate function.  
(For the sake of IDE calltips).

2005/08/25 - Version 4.0.0 beta 2  
-----

Amendments to `*validate.py*`.

First public release.

2005/08/21 - Version 4.0.0 beta 1  
-----

Reads nested subsections to any depth.

Multiline values.

Simplified options and methods.

New list syntax.

Faster, smaller, and better parser.

Validation greatly improved. Includes:

- \* type conversion
- \* default values
- \* repeated sections

Improved error handling.

Plus lots of other improvements.

2004/05/24 - Version 3.0.0  
-----

Several incompatible changes: another major overhaul and change. (Lots of improvements though).

Added support for standard config files with sections. This has an entirely new interface: each section is a dictionary of values.

Changed the update method to be called `writeln`: update clashes with a dict

method.

Made various attributes keyword arguments, added several.

Configspecs and orderlists have changed a great deal.

Removed support for adding dictionaries: use update instead.

Now subclasses a new class called caselessDict. This should add various dictionary methods that could have caused errors before.

It also preserves the original casing of keywords when writing them back out.

Comments are also saved using a ``caselessDict``.

Using a non-string key will now raise a ``TypeError`` rather than converting the key.

Added an exceptions keyword for *\*much\** better handling of errors.

Made ``creatempty=False`` the default.

Now checks indict *\*and\** any keyword args. Keyword args take precedence over indict.

``'`, `!`, `!`, `!`, `` and ``\t`` are now all valid dividers where the keyword is unquoted.

ConfigObj now does no type checking against configspec when you set items.

delete and add methods removed (they were unnecessary).

Docs rewritten to include all this gumph and more; actually ConfigObj is *\*really\** easy to use.

Support for stdout was removed.

A few new methods added.

Charmap is now incorporated into ConfigObj.

2004/03/14 - Version 2.0.0 beta

-----

Re-written it to subclass dict. My first forays into inheritance and operator overloading.

The config object now behaves like a dictionary.

I've completely broken the interface, but I don't think anyone was really using it anyway.

This new version is much more 'classy'.

It will also read straight from/to a filename and completely parse a config file without you *\*having\** to supply a config spec.

Uses listparse, so can handle nested list items as values.

No longer has getval and setval methods: use normal dictionary methods, or add and delete.

2004/01/29 - Version 1.0.5

-----

Version 1.0.5 has a couple of bugfixes as well as a couple of useful additions over previous versions.

Since 1.0.0 the buildconfig function has been moved into this distribution, and the methods reset, verify, getval and setval have been added.

A couple of bugs have been fixed.

Origins

-----

ConfigObj originated in a set of functions for reading config files in the `atlantibots <<http://www.voidspace.org.uk/atlantibots/>>`\_ project. The original functions were written by Rob McNeur.

-----

Footnotes

=====

.. [#] And if you discover any bugs, let us know. We'll fix them quickly.

.. [#] If you specify a filename that doesn't exist, ConfigObj will assume you are creating a new one. See the *\*create\_empty\** and *\*file\_error\** options.

.. [#] They can be byte strings (*\*ordinary\** strings) or Unicode.

.. [#] Except we don't support the RFC822 style line continuations, nor ':' as a divider.

.. [#] This is a change in ConfigObj 4.2.0. Note that ConfigObj doesn't call the seek method of any file like object you pass in. You may want to call ``file\_object.seek(0)`` yourself, first.

.. [#] A side effect of this is that it enables you to copy a ConfigObj :

```
.. code-block:: python
```

```
# only copies members
# not attributes/comments
config2 = ConfigObj(config1)
```

Since ConfigObj 4.7.0 the order of members and sections will be preserved when copying a ConfigObj instance.

.. [#] Other than lists of strings.

.. [#] The exception is if it detects a ``UTF16`` encoded file which it must decode before parsing.

.. [#] The method signature shows that this method takes two arguments. The second is the section to be written. This is because the ``write`` method is called recursively.

.. [#] The dict method doesn't actually use the deepcopy mechanism. This means if you add nested lists (etc) to your ConfigObj, then the dictionary returned by dict may contain some references. For all \*normal\* ConfigObjs it will return a deepcopy.

.. [#] Passing ``(section, key)`` rather than ``(value, key)`` allows you to change the value by setting ``section[key] = newval``. It also gives you access to the \*rename\* method of the section.

.. [#] Minimum required version of \*validate.py\* 0.2.0 .

.. \_listquote: <http://www.voidspace.org.uk/python/modules.shtml#listquote>

.. \_Michael Foord: <http://www.voidspace.org.uk/python/weblog/index.shtml>

.. \_Nicola Larosa: <http://www.teknico.net>

Found in path(s):

```
* /opt/cola/permits/1136595909_1613806141.16/0/python-configobj-4.7.2-7.el7-1.src.rpm-cosi-expand-archive-4PfyR1xo/configobj-4.7.2.zip-cosi-expand-archive-BQiS1vdQ/configobj-4.7.2/docs/configobj.txt
```

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

```
/*
:Authors: Ian Bicking, Michael Foord
:Contact: fuzzyman@voidspace.org.uk
:Date: 2005/08/26
:Version: 0.1.0
:Copyright: This stylesheet has been placed in the public domain.
```

Stylesheet for Docutils.

Based on ``blue\_box.css`` by Ian Bicking  
and ``default.css`` revision 3442

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1136595909_1613806141.16/0/python-configobj-4.7.2-7.el7-1.src.rpm-cosi-expand-archive-4PfyR1xo/configobj-4.7.2.zip-cosi-expand-archive-BQiS1vdQ/configobj-4.7.2/docs/docutils.css
```

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

License: BSD

Found in path(s):

```
* /opt/cola/permits/1136595909_1613806141.16/0/python-configobj-4.7.2-7.el7-1.src.rpm-cosi-expand-archive-4PfyR1xo/python-configobj.spec
```

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

```
/*
```

```
:Author: David Goodger (goodger@python.org)
:Id: $Id: html4css1.css 5951 2009-05-18 18:03:10Z milde $
:Copyright: This stylesheet has been placed in the public domain.
```

Default cascading style sheet for the HTML output of Docutils.

See <http://docutils.sf.net/docs/howto/html-stylesheets.html> for how to  
customize this style sheet.

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1136595909_1613806141.16/0/python-configobj-4.7.2-7.el7-1.src.rpm-cosi-expand-archive-4PfyR1xo/configobj-4.7.2.zip-cosi-expand-archive-BQiS1vdQ/configobj-4.7.2/docs/default.css
```

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Found in path(s):

```
* /opt/cola/permits/1136595909_1613806141.16/0/python-configobj-4.7.2-7.el7-1.src.rpm-cosi-expand-archive-4PfyR1xo/configobj-4.7.2.zip-cosi-expand-archive-BQiS1vdQ/configobj-4.7.2/tests/test_configobj.py
```

```
* /opt/cola/permits/1136595909_1613806141.16/0/python-configobj-4.7.2-7.el7-1.src.rpm-cosi-expand-archive-4PfyR1xo/configobj-4.7.2.zip-cosi-expand-archive-BQiS1vdQ/configobj-4.7.2/configobj.py
```

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```
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```

Found in path(s):

```
* /opt/cola/permits/1136595909_1613806141.16/0/python-configobj-4.7.2-7.el7-1.src.rpm-cosi-expand-archive-4PfyR1xo/configobj-4.7.2.zip-cosi-expand-archive-BQiS1vdQ/configobj-4.7.2/setup.py
```

```
* /opt/cola/permits/1136595909_1613806141.16/0/python-configobj-4.7.2-7.el7-1.src.rpm-cosi-expand-archive-4PfyR1xo/configobj-4.7.2.zip-cosi-expand-archive-BQiS1vdQ/configobj-4.7.2/validate.py
```

## 1.23 sudo 1.8.23-10.el7

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Todd C. Miller <Todd.Miller@sudo.ws>

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

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

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Allbery, Russ  
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Andrew, Nick  
Andric, Dimitry  
Barron, Danny  
Bates, Tom  
Behan, Zdenk  
Bellis, Ray  
Benali, Elias  
Beverly, Jamie  
Boardman, Spider  
Bostley, P.J.  
Bowes, Keith  
Boyce, Keith Garry  
Brantley, Michael  
Braun, Rob  
Bezina, Pavel  
Brooks, Piete  
Brown, Jerry  
Burr, Michael E  
Burton, Ross  
Bussjaeger, Andreas  
Calvin, Gary  
Campbell, Aaron  
Chazelas, Stephane  
ek, Vtzslav  
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Corzine, Deven T.  
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Dai, Wei  
Dill, David  
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Eckhardt, Drew  
Edgington, Ben  
Esipovich, Marc

Espie, Marc  
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Frysinger, Mike  
G., Daniel Richard  
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Hieb, Dave  
Holloway, Nick  
Hoover, Adam  
Hunter, Michael T.  
Hutchings, Ben  
Irrgang, Eric  
Jackson, Brian  
Jackson, John R.  
Jackson, Richard L., Jr.  
Janssen, Mark  
Jepeway, Chris  
Jorge, Joel Pele  
Juhani, Timo  
Kikuchi, Ayamura  
Kadow, Kevin  
Kasal, Stepan  
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Kopeek, Daniel  
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Krause, David  
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Larsen, Case  
Levin, Dmitry V.  
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Lobbes, Phillip E.  
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MacKenzie, David J.

McLaughlin, Tom  
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Martinian, Emin  
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Michael, David  
Miller, Todd C.  
Minier, Loc  
Moffat, Darren  
Moldung, Jan Thomas  
Morris, Charles  
Mueller, Andreas  
Mller, Dworkin  
Nieusma, Jeff  
Nikitser, Peter A.  
Nussel, Ludwig  
Ouellet, Jean-Philippe  
Paquet, Eric  
Paradis, Chantal  
Percival, Ted  
Perera, Andres  
Peron, Christian S.J.  
Peschel, Aaron  
Peslyak, Alexander  
Peterson, Toby  
Petten, Diego Elio  
Pickett, Joel  
Plotnick, Alex  
de Raadt, Theo  
Rasch, Gudleik  
Reid, Steve  
Richards, Matt  
Rossum, Guido van  
Rouillard, John P.  
Rowe, William A., Jr.  
Roy, Alain  
Ruusame, Elan  
Ryabinkin, Eygene  
Sato, Yuichi  
Snchez, Wilfredo  
Saucier, Jean-Francois  
Schoenfeld, Patrick  
Schuring, Arno  
Schwarze, Ingo  
Scott, Dougal  
Sieger, Nick  
Simon, Thor Lancelot

Slemko, Marc  
Smith, Andy  
Sobrado, Igor  
Soulen, Steven  
Spangler, Aaron  
Spradling, Cloyce D.  
Stier, Matthew  
Stoeckmann, Tobias  
Street, Russell  
Stritzky, Tilo  
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Tarrall, Robert  
Thomas, Matthew  
Todd, Giles  
Toft, Martin  
Torek, Chris  
Tucker, Darren  
Uhl, Robert  
Uzel, Petr  
Valery, Reznic  
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Venckus, Martynas  
de Vries, Maarten  
Wagner, Klaus  
Walsh, Dan  
Warburton, John  
Webb, Kirk  
Wetzel, Timm  
Wieringen, Marco van  
Wilk, Jakub  
Winiger, Gary  
Wood, David  
Zacarias, Gustavo  
Zolnowsky, John

The following people have worked to translate sudo into other languages:

Blttermann, Mario  
Bogusz, Jakub  
Buo-ren, Lin  
Casagrande, Milo  
Castro, Felipe  
Cho, Seong-ho  
Chornoivan, Yuri  
Diguez, Francisco  
Fontenelle, Rafael  
Garca-Fontes, Walter

Gezer, Volkan  
Hamasaki, Takeshi  
Hamming, Peter  
Hansen, Joe  
Hantrais, Frdric  
Hein, Jochen  
Hufthammer, Karl Ove  
Jerovek, Damir  
Karvonen, Jorma  
Kazik, Duan  
Kelemen, Gbor  
Keeci, Mehmet  
Koir, Klemen  
Kozlov, Yuri  
Kramer, Jakob  
Krznar, Tomislav  
Marchal, Frdric  
Margeviius, Algimantas  
Maryanov, Pavel  
Nikoli, Miroslav  
Nylander, Daniel  
Psa, Petr  
Putanec, Boidar  
Qun, Trn Ngc  
Rasmussen, Sebastian  
Regueiro, Leandro  
Sarer, zgr  
Sendn, Abel  
Sikrom, ka  
Spingos, Dimitris  
Taniguchi, Yasuaki  
Tomat, Fbio  
r, Balzs  
Uranga, Mikel Olasagasti  
Vorotnikov, Artem  
Wang, Wylmer

## 1.24 postfix 2.10.1 9.el7

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Included for the use of the fix\_strcasecmp.c module which works around a Solaris problem.

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# 1.25 wsd14j 1.6.2

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Version 2, June 1991

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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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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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## 1.28 sed 4.2.2-7.el7

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## 1.30 icu 50.2 3.e17

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"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
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<title>ICU License - ICU 1.8.1 and later</title>
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### <h3>2. Chinese/Japanese Word Break Dictionary Data (cjdict.txt)</h3>

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#

#

# The word list in cjdict.txt are generated by combining three word lists listed

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#

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#

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```

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<pre>

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</html>

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```
## *-makefile*-
```

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

```
## Copyright (c) 1999-2009, International Business Machines Corporation and
```

```
## others. All Rights Reserved.
```

```
## 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^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

## Versioned libraries rules

%. $(SO).$(SO_TARGET_VERSION_MAJOR): %. $(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%. $(SO): %. $(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}. $(SO).$(SO_TARGET_VERSION) $@

## End FreeBSD-specific setup

```

## 1.31 sdk 4.2.0.alpha2

## 1.32 fluent-hc 4.3

### 1.32.1 Available under license :

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## 1.33 perl-filter 1.49-3.el7

### 1.33.1 Available under license :

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```
---
abstract: 'Source Filters'
author:
- 'Paul Marquess <pmqs@cpan.org>'
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.64, CPAN::Meta::Converter version 2.120630'
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:
  Filter::Simple: 0.88
  Filter::Simple::Compile: 0.02
requires: {}
resources:
  license: http://dev.perl.org/licenses/
  repository: https://github.com/rurban/Filter
version: 1.49
```

Found in path(s):

```
* /opt/cola/permits/1000849030_1646171520.04/0/perl-Filter-1.49-3.el7.src.rpm-cosi-expand-archive-ZTmD2BdE/Filter-1.49.tar.gz-cosi-expand-archive-iNJ8NX82/Filter-1.49/META.yml
```

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Found in path(s):

\* /opt/cola/permits/1000849030\_1646171520.04/0/perl-Filter-1.49-3.el7.src.rpm-cosi-expand-archive-ZTmD2BdE/perl-Filter.spec

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Found in path(s):

\* /opt/cola/permits/1000849030\_1646171520.04/0/perl-Filter-1.49-3.el7.src.rpm-cosi-expand-archive-ZTmD2BdE/Filter-1.49.tar.gz-cosi-expand-archive-iNJ8NX82/Filter-1.49/Call/Call.pm

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=head1 NAME

perlfiter - 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 a 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:

=over 5

=item 1.

Although there can be any number of source streams in existence at any given time, only one will be active.

=item 2.

Every source stream is associated with only one file.

=back

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 I<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
```

=head1 USING FILTERS

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, `C<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.

```
.-> cpp --.
|       |
|       |
|   <-'
```

```
cpp_test -----> cpp filter ----> parser
```

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 C<cpp> filter does not apply to the text of the Fred module, only to the text of the file that used it (C<cpp\_test>). Although the use statement on line 3 will pass through the cpp filter, the module that gets included (C<Fred>) will not. The source streams look like this after line 3 has been parsed and before line 4 is parsed:

```
cpp_test ---> cpp filter ---> parser (INACTIVE)
```

```
Fred.pm ----> parser
```

As you can see, a new stream has been created for reading the source from C<Fred.pm>. This stream will remain active until all of C<Fred.pm> has been parsed. The source stream for C<cpp\_test> will still exist, but is inactive. Once the parser has finished reading Fred.pm, the source stream associated with it will be destroyed. The source stream for C<cpp\_test> then becomes active again and the parser reads line 4 and subsequent lines from C<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 uuencode filter and an uncompression filter like this:

```
use Filter::uuencode; use Filter::uncompress;
M'XL("H<US4"V9I;F%L)Q;>7/;1I;_>_I3=&E=%:F*I"T?22Q/
M6]9*<IQCO*XFT"0[PL.%%'Y+IG?WN^ZYN-$J.[.JES,20/?K=_[>
...
```

Once the first line has been processed, the flow will look like this:

```
file ---> uuencode ---> uncompress ---> parser
      filter      filter
```

Data flows through filters in the same order they appear in the source file. The uuencode 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).

=over 5

## =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.



=back

## =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: C<Filter::exec> and 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 C<Filter::exec> spawns the external command directly, while 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 C<Filter::sh>:

```
use Filter::sh 'tr XYZ PQR';
$a = 1;
print "XYZ a = $a\n";
```

The output you'll get when the script is executed:

```
PQR a = 1
```

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 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.)

```
package Rot13;

use Filter::Util::Call;

sub import {
    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.

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:

```
## 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 <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:

```
## DEBUG_BEGIN
#if ($year > 1999) {
#    warn "Debug: millennium bug in year $year\n";
#}
## DEBUG_END
```

Here is the complete Debug filter:

```
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,
    );
    filter_add(bless \%context);
}

sub Die {
    my ($self) = shift;
    my ($message) = shift;
    my ($line_no) = shift || $self->{LastBegin};
    die "$message at $self->{Filename} line $line_no.\n"
}

sub filter {
    my ($self) = @_;
    my ($status);
    $status = filter_read();
    ++ $self->{LineNo};

    # deal with EOF/error first
    if ($status <= 0) {
        $self->Die("DEBUG_BEGIN has no DEBUG_END")
        if $self->{InTraceBlock};
        return $status;
    }

    if ($self->{InTraceBlock}) {
        if (/^\s*##\s*DEBUG_BEGIN/) {
            $self->Die("Nested DEBUG_BEGIN", $self->{LineNo})
        } elsif (/^\s*##\s*DEBUG_END/) {
            $self->{InTraceBlock} = FALSE;
        }

        # comment out the debug lines when the filter is disabled
        s/^\#/ if ! $self->{Enabled};
    } elsif (/^\s*##\s*DEBUG_BEGIN/) {
        $self->{InTraceBlock} = TRUE;
        $self->{LastBegin} = $self->{LineNo};
    } elsif (/^\s*##\s*DEBUG_END/) {

```

```

    $self->Die("DEBUG_END has no DEBUG_BEGIN", $self->{LineNo});
}
return $status;
}

1;

```

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 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:

```
sub MySub ($first, $second, @rest) { ... }
```

into this:

```
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 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.

=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

Paul Marquess E<lt>Paul.Marquess@btinternet.comE<gt>

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Found in path(s):

\* /opt/cola/permits/1000849030\_1646171520.04/0/perl-Filter-1.49-3.el7.src.rpm-cosi-expand-archive-ZTmD2BdE/Filter-1.49.tar.gz-cosi-expand-archive-iNJ8NX82/Filter-1.49/perlfilter.pod

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/\*

\* Filename : Call.xs

\*

\* Author : Paul Marquess

\* Date : 2013-03-29 09:04:42 rurban

\* Version : 1.49

\*

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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/1000849030\_1646171520.04/0/perl-Filter-1.49-3.el7.src.rpm-cosi-expand-archive-ZTmD2BdE/Filter-1.49.tar.gz-cosi-expand-archive-iNJ8NX82/Filter-1.49/Call/Call.xs

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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

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.16

=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.

=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::PPPport> 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 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.

| Function / Variable  | Static Request          | Global Request                 |
|----------------------|-------------------------|--------------------------------|
| PL_parser            | NEED_PL_parser          | NEED_PL_parser_GLOBAL          |
| PL_signals           | NEED_PL_signals         | NEED_PL_signals_GLOBAL         |
| eval_pv()            | NEED_eval_pv            | NEED_eval_pv_GLOBAL            |
| grok_bin()           | NEED_grok_bin           | NEED_grok_bin_GLOBAL           |
| grok_hex()           | NEED_grok_hex           | NEED_grok_hex_GLOBAL           |
| grok_number()        | NEED_grok_number        | NEED_grok_number_GLOBAL        |
| grok_numeric_radix() | NEED_grok_numeric_radix | NEED_grok_numeric_radix_GLOBAL |
| grok_oct()           | NEED_grok_oct           | NEED_grok_oct_GLOBAL           |
| load_module()        | NEED_load_module        | NEED_load_module_GLOBAL        |
| my_snprintf()        | NEED_my_snprintf        | NEED_my_snprintf_GLOBAL        |
| 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        |
| 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_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              |
| warn()                   | 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<newSVpv<pv> function, use:

```
perl ppport.h --api-info=newSVpv<pv>
```

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::PPP<pv> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPP<pv> 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::PPort> 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::PPort>.

=cut

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,
);

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 $rce = 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|||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|||p
DEFSV|5.004050||p
END_EXTERN_C|5.005000||p
ENTER|||
ERRSV|5.004050||p
EXTEND|||
EXTERN_C|5.005000||p
F0convert|||n
FREEMPS|||

```

GIMME\_V|5.004000|n  
GIMME||n  
GROK\_NUMERIC\_RADIX|5.007002||p  
G\_ARRAY|||  
G\_DISCARD|||  
G\_EVAL|||  
G\_METHOD|||p  
G\_NOARGS|||  
G\_SCALAR|||  
G\_VOID|5.004000|  
GetVars|||  
GvSV|||  
Gv\_AMupdate|||  
HEf\_SVKEY|5.004000|  
HeHASH|5.004000|  
HeKEY|5.004000|  
HeKLEN|5.004000|  
HePV|5.004000|  
HeSVKEY\_force|5.004000|  
HeSVKEY\_set|5.004000|  
HeSVKEY|5.004000|  
HeUTF8|5.011000|  
HeVAL|5.004000|  
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|||  
LVRET|||  
MARK|||  
MULTICALL|5.011000|  
MY\_CXT\_CLONE|5.009002||p  
MY\_CXT\_INIT|5.007003||p  
MY\_CXT|5.007003||p  
MoveD|5.009002||p  
Move|||  
NOOP|5.005000||p

NUM2PTR|5.006000||p  
NVTYPE|5.006000||p  
NVef|5.006001||p  
NVff|5.006001||p  
NVgf|5.006001||p  
Newxc|5.009003||p  
Newxz|5.009003||p  
Newx|5.009003||p  
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\_SV1|||  
PAD\_SV|||  
PERLIO\_FUNCS\_CAST|5.009003||p  
PERLIO\_FUNCS\_DECL|5.009003||p  
PERL\_ABS|5.008001||p  
PERL\_BCDVERSION|5.011000||p  
PERL\_GCC\_BRACE\_GROUPS\_FORBIDDEN|5.008001||p  
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  
PERL\_MAGIC\_arylen|5.007002||p  
PERL\_MAGIC\_backref|5.007002||p  
PERL\_MAGIC\_bm|5.007002||p  
PERL\_MAGIC\_collxfrm|5.007002||p  
PERL\_MAGIC\_dbfile|5.007002||p  
PERL\_MAGIC\_dbline|5.007002||p  
PERL\_MAGIC\_defelem|5.007002||p

PERL\_MAGIC\_envelem|5.007002||p  
PERL\_MAGIC\_env|5.007002||p  
PERL\_MAGIC\_ext|5.007002||p  
PERL\_MAGIC\_fm|5.007002||p  
PERL\_MAGIC\_glob|5.011000||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\_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|||p  
PERL\_PV\_ESCAPE\_FIRSTCHAR|||p  
PERL\_PV\_ESCAPE\_NOBACKSLASH|||p  
PERL\_PV\_ESCAPE\_NOCLEAR|||p  
PERL\_PV\_ESCAPE\_QUOTE|||p  
PERL\_PV\_ESCAPE\_RE|||p  
PERL\_PV\_ESCAPE\_UNI\_DETECT|||p  
PERL\_PV\_ESCAPE\_UNI|||p  
PERL\_PV\_PRETTY\_DUMP|||p  
PERL\_PV\_PRETTY\_ELLIPSES|||p  
PERL\_PV\_PRETTY\_LTGT|||p  
PERL\_PV\_PRETTY\_NOCLEAR|||p  
PERL\_PV\_PRETTY\_QUOTE|||p  
PERL\_PV\_PRETTY\_REGPROP|||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\_UCHAR\_MAX|5.004000||p  
PERL\_UCHAR\_MIN|5.004000||p  
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|||p  
PL\_bufptr|||p  
PL\_compiling|5.004050||p  
PL\_copline|5.011000||p  
PL\_curcop|5.004050||p  
PL\_curstash|5.004050||p  
PL\_debstash|5.004050||p  
PL\_defgv|5.004050||p  
PL\_diehook|5.004050||p  
PL\_dirty|5.004050||p  
PL\_dowarn|||pn  
PL\_errgv|5.004050||p  
PL\_expect|5.011000||p  
PL\_hexdigit|5.005000||p  
PL\_hints|5.005000||p  
PL\_last\_in\_gv|||n  
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|||n  
PL\_parser|||p  
PL\_perl\_destruct\_level|5.004050|p  
PL\_perldb|5.004050|p  
PL\_ppaddr|5.006000|p  
PL\_rsfilters|5.004050|p  
PL\_rsfpl|5.004050|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|||p  
POP\_MULTICALL||5.011000|  
POPi|||n  
POPl|||n  
POPn|||n  
POPpbytex||5.007001|n  
POPpx||5.005030|n  
POPp|||n  
POPs|||n  
PTR2IV|5.006000|p  
PTR2NV|5.006000|p  
PTR2UV|5.006000|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\_ptrcnt|5.007003|  
PerlIO\_setlinebuf|5.007003|  
PerlIO\_stderr|5.007003|  
PerlIO\_stdin|5.007003|  
PerlIO\_stdout|5.007003|  
PerlIO\_tell|5.007003|  
PerlIO\_unread|5.007003|  
PerlIO\_write|5.007003|  
Perl\_signbit|5.009005|n  
PoisonFree|5.009004|p  
PoisonNew|5.009004|p  
PoisonWith|5.009004|p  
Poison|5.008000|p  
RETVL||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  
STR\_WITH\_LEN|5.009003|p  
ST||  
SV\_CONST\_RETURN|5.009003|p  
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```

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xmldump_packsubs|||
xmldump_sub|||
xmldump_vindent|||
yyerror|||
yylex|||
yyparse|||
yywarn|||
);

if (exists $opt{'list-unsupported'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};
        print "$f ", 'x'(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
    }
    exit 0;
}

# Scan for possible replacement candidates

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

sub find_api
{
    my $code = shift;
    $code =~ s{
        /(?: \^[^*]*\*(?:\^[^$ccs][^*]*\*)* / | /[\r\n]*
        | "[^"\\]*(?:\\.[^"\\]*)*"
        | '[^"\\]*(?:\\.[^"\\]*)*' }{ }egsx;
    grep { exists $API{$_} } $code =~ /(\w+)/mg;
}

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

```

```

$hint = [$1, [split /,?\s+/, $2]]
  if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,\s+\w+)*)\s*$};

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

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

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

$function = [$1, ""] if m{^DPPP_(my_(\w+))};

$replace = $1 if m{^\s*$rccs\s+Replace:\s+(\d+)\s+$rcces\s*$};
$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+$rcces};
$replace{$1} = $2 if m{^\s*$rccs\s+Replace (\w+) with (\w+)\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{^#\s+defined\((NEED_(\w+)(?:_GLOBAL)?)\)};
}

```

```

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

if (exists $opt{'api-info'}) {
    my $f;
    my $count = 0;
    my $match = $opt{'api-info'} =~ m!^(.*)/$! ? $1 : "\Q$opt{'api-info'}\E\$";
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $f =~ /$match/;
        print "\n=== $f ===\n\n";
        my $info = 0;
        if ($API{$f}{base} || $API{$f}{todo}) {
            my $base = format_version($API{$f}{base} || $API{$f}{todo});
            print "Supported at least starting from perl-$base.\n";
            $info++;
        }
        if ($API{$f}{provided}) {
            my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
            print "Support by $ppport provided back to perl-$todo.\n";
            print "Support needs to be explicitly requested by NEED_$f.\n" if exists $need{$f};
            print "Depends on: ", join(', ', @{$depends{$f}}), ".\n" if exists $depends{$f};
            print "\n$hints{$f}" if exists $hints{$f};
            print "\nWARNING:\n$warnings{$f}" if exists $warnings{$f};
            $info++;
        }
        print "No portability information available.\n" unless $info;
        $count++;
    }
    $count or print "Found no API matching '$opt{'api-info'}'.";
    print "\n";
    exit 0;
}

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 $xsc{$_} || /\bQ$ppport\E$/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]*
    | "[^\\]*(?:\\\[^\r\n]*)*"
    | '[^\\]*(?:\\\[^\r\n]*)*'
    | /(?: \*[^\r\n]*\*+(?:\^[^$ccs][^\r\n]*\*+)* /|/[^\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} > $opt{'compat-version'}) {
    if ($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;
    }
}

$file{$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 $file{$_}{needed_global}{$need}, @targets;
        @targets = @t if @t;
        @t = grep /\.xs$/i, @targets;
        @targets = @t if @t;
        my $target = shift @targets;
    }
}

```



```

$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
    $files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}

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

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

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

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

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

for $func (sort keys %{$file{uses_provided}}) {
    if ($file{uses}{$func}) {
        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 $cpc = 0;
my @ccom = @ { $file{ccom} };
for $ix (0 .. $#ccom) {
    if (! $opt{cplusplus} && $ccom[$ix] =~ s!^/!!) {
        $cpc++;
    }
}

```

```

$file{changes} += $c =~ s/$rcs$ix$rcce/$ccs$com[$ix] $cce/;
}
else {
    $c =~ s/$rcs$ix$rcce/$com[$ix]/;
}
}

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

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

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

```

```

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

```

```
close PATCH if $patch_opened;
```

```
exit 0;
```

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

```
sub mydiff
```

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

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

```

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

```

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

```

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

```

```

}

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

print F $diff;
}

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

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

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

        if (open F, "$prog $file $tmp |") {
            while (<F>) {
                s/\Q$tmp\E/$file.patched/;
                $diff .= $_;
            }
            close F;
            unlink $tmp;
            return $diff;
        }

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

    return undef;
}

sub rec_depend
{
    my($func, $seen) = @_;
    return () unless exists $depends{$func};
}

```

```

$seen = {% {$seen|{ }}};
return () if $seen->{$func}++;
my %s;
grep !${s[$_]++}, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
}

```

```

sub parse_version

```

```

{
my $ver = shift;

if ($ver =~ /^(d+)\.(d+)\.(d+)$/) {
return ($1, $2, $3);
}
elsif ($ver !~ /^(d+)\.[d_]+$/) {
die "cannot parse version '$ver'\n";
}

```

```

$ver =~ s/_//g;

```

```

$ver =~ s/$/000000/;

```

```

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

```

```

$v = int $v;

```

```

$s = int $s;

```

```

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

```

```

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

```

```

}

```

```

sub format_version

```

```

{
my $ver = shift;

```

```

$ver =~ s/$/000000/;

```

```

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

```

```

$v = int $v;

```

```

$s = int $s;

```

```

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

```

```

$s /= 10;

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

return $ver;
}

return sprintf "%d.%d.%d", $r, $v, $s;
}

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

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

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

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

my %given_hints;
my %given_warnings;
sub hint
{
    $opt{quiet} and return;
    my $func = shift;
    my $rv = 0;
    if (exists $warnings{$func} && !$given_warnings{$func}++) {
        my $warn = $warnings{$func};
        $warn =~ s/^\!*** !mg;
        print "*** WARNING: $func\n", $warn;
        $rv++;
    }
    if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {

```



```

my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}

```

sub usage

```

{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'T' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([>]+)>/M{$1}$2M{$1}/g;

```

```
print <<ENDUSAGE;
```

Usage: \$usage

See perldoc \$0 for details.

ENDUSAGE

```

exit 2;
}

```

sub strip

```

{
my $self = do { local(@ARGV,$/)=($0); <> };
my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^=\w+/ms;
$copy =~ s/^(?=\S+)/ /gms;
$self =~ s/^\$HS+Do NOT edit.*?(?=\^)/$copy/ms;
$self =~ s/^\$SKIP.*(?=\^__DATA__)/SKIP
if (\@ARGV && \$_[0] eq '--unstrip') {
eval { require Devel::PPPport };
\$_ and die "Cannot require Devel::PPPport, please install.\n";
if (eval \$_[0]::VERSION < $VERSION) {
die "$0 was originally generated with Devel::PPPport $VERSION.\n"
. "Your Devel::PPPport is only version \$_[0]::VERSION.\n"
. "Please install a newer version, or --unstrip will not work.\n";
}
Devel::PPPport::WriteFile(\$_);
exit 0;
}
print <<END;

```

Sorry, but this is a stripped version of \\$\_.

To be able to use its original script and doc functionality,

please try to regenerate this file using:

```
\$^X \$0 --unstrip

END

/ms;
my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
$c =~ s{
  /(?:\[^\]*\*+(?:\[^\$ccs][^\]*\*+)* /|/^\r\n)*
  | ("^\[\]*(?:\.[^\[\]]*)*"
  | '^\[\]*(?:\.[^\[\]]*)*' )
  | ($HS+) }{ defined $2 ? '' : ($1 || ") }gsex;
$c =~ s!\s+#!mg;
$c =~ s!^\$LF!!mg;
$c =~ s!\s*#\s*#!mg;
$c =~ s!\s+!!mg;

open OUT, ">$0" or die "cannot strip $0: $!\n";
print OUT "$pl$c\n";

exit 0;
}
```

```
__DATA__
*/
```

Found in path(s):

```
* /opt/cola/permits/1000849030_1646171520.04/0/perl-Filter-1.49-3.el7.src.rpm-cosi-expand-archive-
ZTmD2BdE/Filter-1.49.tar.gz-cosi-expand-archive-iNJ8NX82/Filter-1.49/Call/ppport.h
```

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

Source Filters

Version 1.49

2013-04-01 rurban

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modify it under the same terms as Perl itself.

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/>

## PREREQUISITES

-----

Before you can build the Source Filters you need to have the following installed on your system:

\* Perl 5.005 or better. 5.6.0 or better is recommended for Win32.

If your Perl is less than version 5.004\_55, the "order" test harness will be skipped.

## 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

## UPDATES

-----

The most recent version of the Filters is always available at

<http://www.cpan.org/modules/by-module/Filter>

Found in path(s):

\* /opt/cola/permits/1000849030\_1646171520.04/0/perl-Filter-1.49-3.el7.src.rpm-cosi-expand-archive-ZTmD2BdE/Filter-1.49.tar.gz-cosi-expand-archive-iNJ8NX82/Filter-1.49/README

# 1.34 log-rotate 3.8.6 19.el7

## 1.34.1 Available under license :

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Version 2, June 1991

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## 1.36 cryptsetup 2.0.3 6.el7

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## 1.40 libyami 0.1.4-11.el7\_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 from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

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\* `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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-
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-->

<!-- $Id$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->
```

```

<xsl:stylesheet version="1.0"
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
  xmlns:xi="http://www.w3.org/2001/XInclude"
  xmlns:db="http://docbook.org/ns/docbook">

  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '#10;'))"/>
    <xsl:text>#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '#10;')"/>
    <xsl:if test="translate($rest, '#9;#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
  </xsl:template>

  <xsl:variable name="isc.copyright.text">
    <xsl:text>
      This Source Code Form is subject to the terms of the Mozilla Public
      License, v. 2.0. If a copy of the MPL was not distributed with this
      file, You can obtain one at http://mozilla.org/MPL/2.0/.
    </xsl:text>
  </xsl:variable>

  <xsl:variable name="isc.copyright">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text">
        <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
          <xsl:text>Copyright (C) </xsl:text>
          <xsl:call-template name="copyright.years">
            <xsl:with-param name="years" select="year"/>
          </xsl:call-template>
          <xsl:text> </xsl:text>
          <xsl:value-of select="holder"/>
          <xsl:value-of select="$isc.copyright.breakline"/>
          <xsl:text>#10;</xsl:text>
        </xsl:for-each>
        <xsl:value-of select="$isc.copyright.text"/>
      </xsl:with-param>
    </xsl:call-template>
  </xsl:variable>
</xsl:stylesheet>

<!--
- Local variables:
- mode: sgml

```

- End:

-->

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## 1.47 activation 1.1

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/*
* @(#)SecuritySupport.java 1.3 05/11/16
*
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*/
```

Found in path(s):

```
*/opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
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* @(#)CommandInfo.java 1.11 05/11/16
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```
/*
* @(#)ImageViewerCanvas.java 1.3 05/11/16
*
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*/
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Found in path(s):

```
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
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/*
* @(#)DataContentHandlerFactory.java 1.6 05/11/16
*
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*/
```

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```
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
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/*
```

\* @(#)URLDataSource.java 1.10 05/11/16  
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\* /opt/cola/permits/1200523838\_1654022813.457056/0/activation-1-1-sources-11-jar/javax/activation/URLDataSource.java

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\* @(#)MailcapCommandMap.java 1.40 05/11/16  
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\* /opt/cola/permits/1200523838\_1654022813.457056/0/activation-1-1-sources-11-jar/javax/activation/MailcapCommandMap.java

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/*
* @(#)MimeTypeParameterList.java 1.11 05/11/16
*
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*/
```

Found in path(s):

```
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
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/*
* @(#)CommandMap.java 1.19 05/11/16
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\* @(#)MimeTypeParseException.java 1.6 05/11/16

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/*
* @(#)DataHandler.java 1.39 05/11/16
*
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*/
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```
*/opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
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* @(#)UnsupportedDataException.java 1.9 05/11/16
*
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*/
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\* /opt/cola/permits/1200523838\_1654022813.457056/0/activation-1-1-sources-11-jar/javax/activation/UnsupportedDataTypeException.java

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\* @(#)FileTypeMap.java 1.8 05/11/16

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* @(#)MimeType.java 1.19 05/11/16
*
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*/
```

Found in path(s):

```
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
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```

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/*
* @(#)MimeTypeEntry.java 1.4 05/11/16
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```

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```
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
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@(#)TextViewer.java 1.9 05/11/16
 *
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 */
```

Found in path(s):

```
*/opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
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Found in path(s):

```
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jar/javax/activation/DataContentHandler.java
```

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* @(#)ActivationDataFlavor.java 1.14 05/11/16
*
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*/
```

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* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
jar/javax/activation/ActivationDataFlavor.java
```

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```
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* @(#)MimeTypeFile.java 1.8 05/11/16
*
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*/
```

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```
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
jar/com/sun/activation/registries/MimeTypeFile.java
```

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* @(#)TextEditor.java 1.8 05/11/16
*
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*/
```

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```
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
jar/com/sun/activation/viewers/TextEditor.java
```

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```
* @(#)MailcapFile.java 1.23 05/11/16
*
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*/
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```
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
jar/com/sun/activation/registries/MailcapFile.java
```

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```

```
*/
```

```
/*
```

```
* @(#)MailcapTokenizer.java 1.6 05/11/16
*
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*/
```

Found in path(s):

```
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
jar/com/sun/activation/registries/MailcapTokenizer.java
```

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@(#)package.html 1.1 05/11/16

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-->

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/\*

\* @(#)MailcapParseException.java 1.4 05/11/16

\*

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\* @(#)MimetypesFileTypeMap.java 1.17 05/11/16

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\* /opt/cola/permits/1200523838\_1654022813.457056/0/activation-1-1-sources-11-jar/javax/activation/MimetypesFileTypeMap.java

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* @(#)DataSource.java 1.11 05/11/16
*
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```
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```

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*
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* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-  
jar/com/sun/activation/viewers/ImageViewer.java
```

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*/
```

```
/*
```

```
* @(#)CommandObject.java 1.9 05/11/16
```

```
/*
```

```
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```

```
*/
```

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```
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-  
jar/javax/activation/CommandObject.java
```

## 1.48 libnl3 3.2.28-4.el7

### 1.48.1 Available under license :

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## 1.49 lvm2 2.02.187-6.el7

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## 1.53 quartz 2.1.7

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# 1.54 util-linux 2.23.2-65.el7

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

```
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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

Device	Boot	Start	End	Blocks	Id	System
--------	------	-------	-----	--------	----	--------

-----

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

Device	Boot	Start	End	Blocks	Id	System
__ts_dev__1		2048	4095	1024	83	Linux

-----

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

Device	Boot	Start	End	Blocks	Id	System
__ts_dev__1		2048	4095	1024	83	Linux
__ts_dev__2		4096	20479	8192	a5	FreeBSD

-----

Create default BSD  
2e1cee529cb59c9341afef0443f196a1 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	

```
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):

## 1.55 jclouds-vcloud 1.0-beta-7



# 1.56 commons-compress 1.9

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# 1.57 commons-http-client 3.1

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## 1.58 axis-saaj 1.4

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## 1.59 perl-time-hires 1.9725-3.el7

### 1.59.1 Available under license :

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

/\*

-----

ppport.h -- Perl/Pollution/Portability Version 3.13

Automatically created by Devel::PPPport running under perl 5.008008.

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 3.13

## =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 automatically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

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

```
=head2 --diff=I<program>
```

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

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

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

```
=head2 --cplusplus
```

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

```
=head2 --quiet
```

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

```
=head2 --nodiag
```

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

=head2 --nohints

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

=head2 --nochanges

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

=head2 --nofilter

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

=head2 --strip

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

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

=head2 --list-provided

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

=head2 --list-unsupported

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

=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 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.

Function / Variable	Static Request	Global Request
PL_signals	NEED_PL_signals	NEED_PL_signals_GLOBAL
eval_pv()	NEED_eval_pv	NEED_eval_pv_GLOBAL
grok_bin()	NEED_grok_bin	NEED_grok_bin_GLOBAL
grok_hex()	NEED_grok_hex	NEED_grok_hex_GLOBAL
grok_number()	NEED_grok_number	NEED_grok_number_GLOBAL
grok_numeric_radix()	NEED_grok_numeric_radix	NEED_grok_numeric_radix_GLOBAL
grok_oct()	NEED_grok_oct	NEED_grok_oct_GLOBAL
load_module()	NEED_load_module	NEED_load_module_GLOBAL
my_snprintf()	NEED_my_snprintf	NEED_my_snprintf_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
newSVpv_n_share()	NEED_newSVpv_n_share	NEED_newSVpv_n_share_GLOBAL
sv_2pv_flags()	NEED_sv_2pv_flags	NEED_sv_2pv_flags_GLOBAL
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
warn()	NEED_warn	NEED_warn_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::PPPport> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPport> 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::PPPport> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2007, 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.

=head1 SEE ALSO

See L<Devel::PPort>.

=cut

use strict;

# Disable broken TRIE-optimization

BEGIN { eval '\${^RE\_TRIE\_MAXBUF} = -1' if \$] >= 5.009004 && \$] <= 5.009005 }

my \$VERSION = 3.13;

```
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 $rce = 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
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|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\_NOARGS|||  
G\_SCALAR|||  
G\_VOID||5.004000|  
GetVars|||  
GvSV|||  
Gv\_AMupdate|||  
HEf\_SVKEY|5.004000|  
HeHASH|5.004000|  
HeKEY|5.004000|  
HeKLEN|5.004000|  
HePV|5.004000|  
HeSVKEY\_force|5.004000|  
HeSVKEY\_set|5.004000|  
HeSVKEY|5.004000|  
HeVAL|5.004000|  
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|||  
LVRET|||  
MARK|||  
MULTICALL||5.009005|  
MY\_CXT\_CLONE|5.009002||p  
MY\_CXT\_INIT|5.007003||p  
MY\_CXT|5.007003||p  
MoveD|5.009002||p  
Move|||  
NOOP|5.005000||p  
NUM2PTR|5.006000||p  
NVTYPE|5.006000||p  
NVef|5.006001||p  
NVff|5.006001||p  
NVgf|5.006001||p  
Newxc|5.009003||p  
Newxz|5.009003||p  
Newx|5.009003||p  
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\_RESTORE\_LOCAL|||  
PAD\_SAVE\_LOCAL|||  
PAD\_SAVE\_SETNULLPAD|||  
PAD\_SETSV|||  
PAD\_SET\_CUR\_NOSAVE|||  
PAD\_SET\_CUR|||  
PAD\_SV1|||  
PAD\_SV|||  
PERL\_ABS|5.008001||p  
PERL\_BCDVERSION|5.009005||p  
PERL\_GCC\_BRACE\_GROUPS\_FORBIDDEN|5.008001||p  
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  
PERL\_MAGIC\_arylen|5.007002||p  
PERL\_MAGIC\_backref|5.007002||p  
PERL\_MAGIC\_bm|5.007002||p  
PERL\_MAGIC\_collxfrm|5.007002||p  
PERL\_MAGIC\_dbfile|5.007002||p  
PERL\_MAGIC\_dbline|5.007002||p  
PERL\_MAGIC\_defelem|5.007002||p  
PERL\_MAGIC\_envelem|5.007002||p  
PERL\_MAGIC\_env|5.007002||p  
PERL\_MAGIC\_ext|5.007002||p  
PERL\_MAGIC\_fm|5.007002||p  
PERL\_MAGIC\_glob|5.009005||p  
PERL\_MAGIC\_isaelem|5.007002||p  
PERL\_MAGIC\_isa|5.007002||p  
PERL\_MAGIC\_mutex|5.009005||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\_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\_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\_UCHAR\_MAX|5.004000||p  
PERL\_UCHAR\_MIN|5.004000||p  
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\_compiling|5.004050||p  
PL\_copline|5.009005||p  
PL\_curcop|5.004050||p  
PL\_curstash|5.004050||p  
PL\_debstash|5.004050||p  
PL\_defgv|5.004050||p  
PL\_diehook|5.004050||p  
PL\_dirty|5.004050||p  
PL\_dowarn|||pn  
PL\_errgv|5.004050||p  
PL\_expect|5.009005||p  
PL\_hexdigit|5.005000||p  
PL\_hints|5.005000||p  
PL\_last\_in\_gv|||n  
PL\_laststatval|5.005000||p  
PL\_modglobal||5.005000)n  
PL\_na|5.004050||pn  
PL\_no\_modify|5.006000||p  
PL\_ofs\_sv|||n  
PL\_perl\_destruct\_level|5.004050||p  
PL\_perldb|5.004050||p  
PL\_ppaddr|5.006000||p  
PL\_rsfilters|5.004050||p

PL\_rsfpl|5.004050||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  
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sv\_isa|||  
sv\_isobject|||  
sv\_iv|5.005000|  
sv\_kill\_backrefs|||  
sv\_len\_utf8|5.006000|  
sv\_len|||  
sv\_magic\_portable|5.009005|5.004000|p  
sv\_magicext|5.007003|  
sv\_magic|||  
sv\_mortalcop|||  
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\_midway|||  
sv\_pos\_b2u|5.006000|  
sv\_pos\_u2b\_cached|||  
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||p  
sv\_pvn|||  
sv\_pvutf8n\_force|5.006000|

sv\_pvutf8n|5.006000|  
sv\_pvutf8|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\_rvweaken|5.006000|  
sv\_setiv\_mg|5.004050|p  
sv\_setiv|||  
sv\_setnv\_mg|5.006000|p  
sv\_setnv|||  
sv\_setpv\_mg|5.004050|p  
sv\_setpvf\_mg\_nocontext|||pvn  
sv\_setpvf\_mg|5.006000|5.004000|pv  
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|5.009004|p  
sv\_setpv|||  
sv\_setref\_iv|||  
sv\_setref\_nv|||  
sv\_setref\_pvn|||  
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\_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|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||  
swap\_match\_buff||  
swash\_fetch|5.007002|  
swash\_get||  
swash\_init|5.006000|  
sys\_intern\_clear||  
sys\_intern\_dup||  
sys\_intern\_init||  
taint\_env||  
taint\_proper||  
tmps\_grow|5.006000|  
toLOWER||  
toUPPER||  
to\_byte\_substr||  
to\_uni\_fold|5.007003|  
to\_uni\_lower\_lc|5.006000|  
to\_uni\_lower|5.007003|  
to\_uni\_title\_lc|5.006000|  
to\_uni\_title|5.007003|  
to\_uni\_upper\_lc|5.006000|  
to\_uni\_upper|5.007003|  
to\_utf8\_case|5.007003|  
to\_utf8\_fold|5.007003|  
to\_utf8\_lower|5.007003|  
to\_utf8\_substr||  
to\_utf8\_title|5.007003|  
to\_utf8\_upper|5.007003|  
token\_free||  
token\_getmad||  
tokenize\_use||  
tokeq||  
tokereport||

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too\_many\_arguments||  
uiv\_2buf||n  
unlnk||  
unpack\_rec||  
unpack\_str|5.007003|  
unpackstring|5.008001|  
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unshare\_hek||  
unsharepvn|5.004000|  
unwind\_handler\_stack||  
update\_debugger\_info||  
upg\_version|5.009005|  
usage||  
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|  
vcroak|5.006000|  
vdeb|5.007003|  
vdie\_common||  
vdie\_croak\_common||  
vdie||  
vform|5.006000|  
visit||  
vivify\_defelem||  
vivify\_ref||  
vload\_module|5.006000|p  
vmess|5.006000|  
vnewSVpvf|5.006000|5.004000|p  
vnormal|5.009002|  
vnumify|5.009000|  
vstringify|5.009000|

```

vverify||5.009003|
vwarner||5.006000|
vwarn||5.006000|
wait4pid|||
warn_nocontext|||vn
warner_nocontext|||vn
warner|5.006000|5.004000|pv
warn|||v
watch|||
whichsig|||
write_no_mem|||
write_to_stderr|||
xmldump_all|||
xmldump_attr|||
xmldump_eval|||
xmldump_form|||
xmldump_indent|||v
xmldump_packsubs|||
xmldump_sub|||
xmldump_vindent|||
yyerror|||
yylex|||
yyparse|||
yywarn|||
);

if (exists $opt{ 'list-unsupported' }) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};
        print "$f ", '!x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
    }
    exit 0;
}

# Scan for possible replacement candidates

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

sub find_api
{
    my $code = shift;
    $code =~ s{
        / (? : \*[^\*]*\*+(?:[^\$ccs][^\*]*\*+)* / | /[\r\n]*
        | "[^\\"\\]*(?:\\\[^\\"\\])*"
        | '[^\']*?(?:\\\[^\'\\])*' }{ }egsx;

```

```

grep { exists $API{$_} } $code =~ /(\w+)/mg;
}

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

$function = [$1, ""] if m{^DPPP_\(my_(\w+)\)};

```

```

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

```

```

if (m{^\s*$rcce\s+(\w+)\s+depends\s+on\s+(\w+(\s*,\s*\w+)*)\s+$rcce\s*$}) {
    push @{$depends{$1}}, map { s/\s+//g; $_ } split /,/, $2;
}

```

```

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

```

```

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

```

```

if (exists $opt{'api-info'}) {
    my $f;
    my $count = 0;
    my $match = $opt{'api-info'} =~ m!^(.+)/$! ? $1 : "\Q$opt{'api-info'}\E\$";
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $f =~ /$match/;
        print "\n=== $f ===\n\n";
        my $info = 0;
        if ($API{$f}{base} || $API{$f}{todo}) {
            my $base = format_version($API{$f}{base} || $API{$f}{todo});
            print "Supported at least starting from perl-$base.\n";
            $info++;
        }
        if ($API{$f}{provided}) {
            my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
            print "Support by $ppport provided back to perl-$todo.\n";
            print "Support needs to be explicitly requested by NEED_$.f.\n" if exists $need{$f};
            print "Depends on: ", join(', ', @{$depends{$f}}), ".\n" if exists $depends{$f};
            print "\n$hints{$f}" if exists $hints{$f};
            print "\nWARNING:\n$warnings{$f}" if exists $warnings{$f};
            $info++;
        }
        print "No portability information available.\n" unless $info;
        $count++;
    }
    $count or print "Found no API matching '$opt{'api-info'}'.";
    print "\n";
    exit 0;
}

```

```

if (exists $opt{'list-provided'}) {

```



```

my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
  next unless $API{$f}{provided};
  my @flags;
  push @flags, 'explicit' if exists $need{$f};
  push @flags, 'depend' if exists $depends{$f};
  push @flags, 'hint' if exists $hints{$f};
  push @flags, 'warning' if exists $warnings{$f};
  my $flags = @flags ? ' [' . join(', ', @flags) . ']': '';
  print "$f$flags\n";
}
exit 0;
}

```

```

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

```

```

if (@ARGV) {
  my %seen;
  for (@ARGV) {
    if (-e) {
      if (-f) {
        push @files, $_ unless $seen{$_}++;
      }
      else { warn "'$_' is not a file.\n" }
    }
    else {
      my @new = grep { -f } glob $_
        or warn "'$_' does not exist.\n";
      push @files, grep { !$seen{$_}++ } @new;
    }
  }
}
else {
  eval {
    require File::Find;
    File::Find::find(sub {
      $File::Find::name =~ /($srcext)$/i
      and push @files, $File::Find::name;
    }, '.');
  };
  if ($?) {
    @files = map { glob ".*$_" } @srcext;
  }
}

```

```

if (!@ARGV || $opt{filter}) {

```

```

my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$.c" => 1, "$.cc" => 1) : () } @files;
for (@files) {
    my $out = exists $xsc{$_} || ^\b\Q$pport\E$/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*\#$HS*include\b[^\r\n]+\b(?:\Q$pport\E\XSUB\.h)\b[^\r\n]*
    | ^$HS*\#$HS*(?:define|elif|if(?:def?))\b[^\r\n]* )
    | ( ^$HS*\#[^\r\n]*
    | "[^"\\]*(?:\\.[^"\\])*"
    | '[^"\\]*(?:\\.[^"\\])*'
    | /(?: \*[^*]*\*+(?:[^\sccs][^*]*\*+)* /|/[^\r\n]* ) )
    ){ defined $2 and push @ccom, $2;
    defined $1 ? $1 : "$ccs#$ccom$cc" } mgsex;

```

\$file{ccom} = \@ccom;

\$file{code} = \$c;

\$file{has\_inc\_ppport} = \$c =~ /^\$HS\*\#\$HS\*include[^\r\n]+\b\Q\$pport\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} > $opt{'compat-version'}) {
            if ($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}) {
        my $changes = ($c =~ s{\b(Perl_$func\s*(\s*)(?!aTHX_?)(\)[^\s]*)})
          { $1 . ($2 eq ') ? 'aTHX' : 'aTHX_' } . $2 }ge);
        if ($changes) {
          warning("Doesn't pass interpreter argument aTHX to Perl_$func");
          $file{changes} += $changes;
        }
      }
    }
  }
  else {
    warning("Uses Perl_$func instead of $func");
    $file{changes} += ($c =~ s{\bPerl_$func(\s*)((\s*aTHX_?)?\s*}
      {$func$1}{g});
  }
}

for $func (sort keys %{$file{uses_replace}}) {
  warning("Uses $func instead of $replace{$func}");
}

```

```

$file{changes} += ($c =~ s/\b$func\b/$replace{$func}/g);
}

for $func (sort keys %{$file{uses_provided}}) {
  if ($file{uses}{$func}) {
    if (exists $file{uses_deps}{$func}) {
      diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
    }
    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_\w+.*?)/$1$pp/ms);
}
}

$file{needs_inc_ppport} = keys %{$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)/$pp/m);
}
}
else {
    if ($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 $cpc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^/!!) {
        $cpc++;
        $file{changes} += $c =~ s/$rcs$ix$rcce/$ccs$ccom[$ix] $cce/;
    }
    else {
        $c =~ s/$rcs$ix$rcce/$ccom[$ix]/;
    }
}

if ($cpc) {
    my $s = $cpc != 1 ? 's' : '';
    warning("Uses $cpc C++ style comment$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 !${$_}++, 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/^\s+ /mg;
        print " --- hint for $func ---\n", $hint;
    }
    $rv;
}

```

sub usage

```

{
    my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
    my %M = ( 'T' => '*' );
    $usage =~ s/^\s*perl\s+\S+/$X $0/;
    $usage =~ s/([A-Z])<([>]+)>/M{$1}$2M{$1}/g;

```

print <<ENDUSAGE;

Usage: \$usage

See perldoc \$0 for details.

ENDUSAGE

```

exit 2;
}

```

sub strip

```

{
    my $self = do { local(@ARGV,$/)=($0); <> };
    my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^\s+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::PPPport };
        \@ and die "Cannot require Devel::PPPport, please install.\n";
        if (\$Devel::PPPport::VERSION < $VERSION) {
            die "$0 was originally generated with Devel::PPPport $VERSION.\n"

```

```

    . "Your Devel::PPPport is only version \${Devel::PPPport::VERSION}.\n"
    . "Please install a newer version, or --unstrip will not work.\n";
}
Devel::PPPport::WriteFile(\$0);
exit 0;
}
print <<END;

```

Sorry, but this is a stripped version of \\$0.

To be able to use its original script and doc functionality,  
please try to regenerate this file using:

```
\$^X \$0 --unstrip
```

```
END
```

```
/ms;
```

```
my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
```

```
$c =~ s{
```

```
 /(?: \*[^\*]*\*+(?:[^\$ccs][^\*]*\*+)* /|/[\r\n]*
```

```
| ("["\]*"(?:\\.["\])*"*
```

```
| '["\]*'?(?:\\.["\])*'*)
```

```
| ($HS+) ){ defined $2 ? ' ' : ($1 || " ) }gsex;
```

```
$c =~ s!\s+!!mg;
```

```
$c =~ s!^$LF!!mg;
```

```
$c =~ s!\s*#\s*!#!mg;
```

```
$c =~ s!\s+!!mg;
```

```
open OUT, ">$0" or die "cannot strip $0: $!\n";
```

```
print OUT "$pl$c\n";
```

```
exit 0;
```

```
}
```

```
__DATA__
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1000848959_1646171515.33/0/perl-Time-HiRes-1.9725-3.el7.src.rpm-cosi-expand-archive-BZgHOcfH/Time-HiRes-1.9725.tar.gz-cosi-expand-archive-jECbbpLO/Time-HiRes-1.9725/ppport.h
```

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

```
---
```

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 6.62, CPAN::Meta::Converter version 2.112621'  
license: unknown  
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  
DynaLoader: 0  
Exporter: 0  
ExtUtils::MakeMaker: 0  
Test::More: 0.82  
strict: 0  
version: 1.9725

Found in path(s):

\* /opt/cola/permits/1000848959\_1646171515.33/0/perl-Time-HiRes-1.9725-3.el7.src.rpm-cosi-expand-archive-BZgHOcfH/Time-HiRes-1.9725.tar.gz-cosi-expand-archive-jECbbpLO/Time-HiRes-1.9725/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/1000848959\_1646171515.33/0/perl-Time-HiRes-1.9725-3.el7.src.rpm-cosi-expand-archive-BZgHOcfH/perl-Time-HiRes.spec

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

=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 );
```

```
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 );

my @stat = stat("file");
my @stat = stat(FH);

=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 `I<hard realtime>` system, any clocks and timers will be imprecise, especially so if you are working in a pre-emptive multiuser system. Understand the difference between `I<wallclock time>` and process time (in UNIX-like systems the sum of `I<user>` and `I<system>` times). Any attempt to sleep for `X` seconds will most probably end up sleeping `B<more>` than that, but don't be surprised if you end up sleeping slightly `B<less>`.

The following functions can be imported from this module.  
No functions are exported by default.

=over 4

=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 `I<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 `I<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>`.

=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 `$which` is the "clock id", as with `clock_gettime()` and `clock_getres()`. The flags default to zero but `C<TIMER_ABSTIME>` can be specified (must be exported explicitly) which means that `C<$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

As L<perlfunc/stat> 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 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>.

=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;
Time::HiRes::sleep (2.5);
Time::HiRes::alarm (10.6666666);

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_getres(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:

name	C prototype
-----	-----
Time::NVtime	double (*)( )
Time::U2time	void (*)(pTHX_ UV ret[2])

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<gettimeofday> is Unix-centric, though some platforms like Win32 and VMS have emulations for it.)

Here is an example of using C<NVtime> from C:

```

double (*myNVtime)(); /* Returns -1 on failure. */
SV **svp = hv_fetch(PL_modglobal, "Time::NVtime", 12, 0);
if (!svp) croak("Time::HiRes is required");
if (!SvIOK(*svp)) croak("Time::NVtime isn't a function pointer");
myNVtime = INT2PTR(double(*)(), SvIV(*svp));
printf("The current time is: %f\n", (*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<time()> maybe rounding rather than truncating. What this means is that the core C<time()> may be reporting the time as one second later than C<gettimeofday()> and C<Time::HiRes::time()>.

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.

=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>.



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=cut

Found in path(s):

\* /opt/cola/permits/1000848959\_1646171515.33/0/perl-Time-HiRes-1.9725-3.el7.src.rpm-cosi-expand-archive-BZgHOcfH/Time-HiRes-1.9725.tar.gz-cosi-expand-archive-jECbbpLO/Time-HiRes-1.9725/HiRes.pm

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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## 1.60 axis 1.5.6

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```

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## 1.64 keyutils 1.5.8-3.el7

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\* @version 3.0 (December 2000)

\*

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

\*

\* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

\* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

\* @author Paulo Barreto <paulo.barreto@terra.com.br>

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7) The following files (originally from <https://github.com/marianobarrios/tls-channel>):

AsynchronousTlsChannel.java  
AsynchronousTlsChannelGroup.java  
BufferAllocator.java  
BufferHolder.java  
ByteBufferSet.java  
ByteBufferUtil.java  
ClientTlsChannel.java  
DirectBufferAllocator.java  
DirectBufferDeallocator.java  
ExtendedAsynchronousByteChannel.java  
HeapBufferAllocator.java  
NeedsReadException.java  
NeedsTaskException.java  
NeedsWriteException.java  
ServerTlsChannel.java  
SniSslContextFactory.java  
TlsChannel.java  
TlsChannelBuilder.java  
TlsChannelCallbackException.java  
TlsChannelFlowControlException.java  
TlsChannelImpl.java  
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## 1.79 libuser 0.60-9.e17

### 1.79.1 Available under license :

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 */
```

```
package io.swagger.annotations;
```

```
import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;
```

```
/**
 * License metadata available within the info section of a Swagger definition, see
```



```
* https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
*
* @since 1.5.0
*/
```

```
@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {

    /**
     * The name of the license.
     *
     * @return the name of the license
     */
    String name();

    /**
     * An optional URL for the license.
     *
     * @return an optional URL for the license.
     */
    String url() default "";
}
```

# 1.81 qrencode 3.4.1-3.e17

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#

include ../../src/common.inc

CFLAGS += -std=gnu99

CFLAGS += -Wall

CFLAGS += -Werror

CFLAGS += -Wmissing-prototypes

```
CFLAGS += -Wpointer-arith
CFLAGS += -Wunused-macros
CFLAGS += -Wmissing-field-initializers
CFLAGS += -Wsign-conversion
CFLAGS += -Wsign-compare

ifeq ($(WCONVERSION_AVAILABLE), y)
CFLAGS += -Wconversion
endif

CFLAGS += -fno-common

ifeq ($(WUNREACHABLE_CODE_RETURN_AVAILABLE), y)
CFLAGS += -Wunreachable-code-return
endif

ifeq ($(WMISSING_VARIABLE_DECLARATIONS_AVAILABLE), y)
CFLAGS += -Wmissing-variable-declarations
endif

ifeq ($(WFLOAT_EQUAL_AVAILABLE), y)
CFLAGS += -Wfloat-equal
endif

ifeq ($(WSWITCH_DEFAULT_AVAILABLE), y)
CFLAGS += -Wswitch-default
endif

ifeq ($(WCAST_FUNCTION_TYPE_AVAILABLE), y)
CFLAGS += -Wcast-function-type
endif

TARGET=check-license

all: $(TARGET)

$(TARGET): $(TARGET).o

clean:
$(RM) -f *.o

clobber: clean
$(RM) -f $(TARGET)

.PHONY: all clean clobber
check-license
```

# 1.83 swagger-annotations 2.1.1

## 1.83.1 Available under license :

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```
/**
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 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1048377619_1591391943.83/0/swagger-annotations-2-1-1-sources-
jar/io/swagger/v3/oas/annotations/links/Link.java
* /opt/ws_local/PERMITS_SQL/1048377619_1591391943.83/0/swagger-annotations-2-1-1-sources-
jar/io/swagger/v3/oas/annotations/servers/Server.java
* /opt/ws_local/PERMITS_SQL/1048377619_1591391943.83/0/swagger-annotations-2-1-1-sources-
jar/io/swagger/v3/oas/annotations/security/SecurityScheme.java
* /opt/ws_local/PERMITS_SQL/1048377619_1591391943.83/0/swagger-annotations-2-1-1-sources-
jar/io/swagger/v3/oas/annotations/links/LinkParameter.java
* /opt/ws_local/PERMITS_SQL/1048377619_1591391943.83/0/swagger-annotations-2-1-1-sources-
jar/io/swagger/v3/oas/annotations/security/SecurityRequirement.java
* /opt/ws_local/PERMITS_SQL/1048377619_1591391943.83/0/swagger-annotations-2-1-1-sources-
jar/io/swagger/v3/oas/annotations/media/Schema.java
* /opt/ws_local/PERMITS_SQL/1048377619_1591391943.83/0/swagger-annotations-2-1-1-sources-
jar/io/swagger/v3/oas/annotations/callbacks/Callback.java
* /opt/ws_local/PERMITS_SQL/1048377619_1591391943.83/0/swagger-annotations-2-1-1-sources-
jar/io/swagger/v3/oas/annotations/parameters/RequestBody.java
* /opt/ws_local/PERMITS_SQL/1048377619_1591391943.83/0/swagger-annotations-2-1-1-sources-
jar/io/swagger/v3/oas/annotations/media/Content.java
* /opt/ws_local/PERMITS_SQL/1048377619_1591391943.83/0/swagger-annotations-2-1-1-sources-
jar/io/swagger/v3/oas/annotations/ExternalDocumentation.java
* /opt/ws_local/PERMITS_SQL/1048377619_1591391943.83/0/swagger-annotations-2-1-1-sources-
jar/io/swagger/v3/oas/annotations/security/OAuthFlows.java
* /opt/ws_local/PERMITS_SQL/1048377619_1591391943.83/0/swagger-annotations-2-1-1-sources-
jar/io/swagger/v3/oas/annotations/tags/Tag.java
* /opt/ws_local/PERMITS_SQL/1048377619_1591391943.83/0/swagger-annotations-2-1-1-sources-
```



jar/io/swagger/v3/oas/annotations/security/SecuritySchemes.java  
\* /opt/ws\_local/PERMITS\_SQL/1048377619\_1591391943.83/0/swagger-annotations-2-1-1-sources-  
jar/io/swagger/v3/oas/annotations/info/License.java  
\* /opt/ws\_local/PERMITS\_SQL/1048377619\_1591391943.83/0/swagger-annotations-2-1-1-sources-  
jar/io/swagger/v3/oas/annotations/media/DiscriminatorMapping.java  
\* /opt/ws\_local/PERMITS\_SQL/1048377619\_1591391943.83/0/swagger-annotations-2-1-1-sources-  
jar/io/swagger/v3/oas/annotations/Hidden.java  
\* /opt/ws\_local/PERMITS\_SQL/1048377619\_1591391943.83/0/swagger-annotations-2-1-1-sources-  
jar/io/swagger/v3/oas/annotations/callbacks/Callbacks.java  
\* /opt/ws\_local/PERMITS\_SQL/1048377619\_1591391943.83/0/swagger-annotations-2-1-1-sources-  
jar/io/swagger/v3/oas/annotations/Operation.java  
\* /opt/ws\_local/PERMITS\_SQL/1048377619\_1591391943.83/0/swagger-annotations-2-1-1-sources-  
jar/io/swagger/v3/oas/annotations/responses/ApiResponse.java  
\* /opt/ws\_local/PERMITS\_SQL/1048377619\_1591391943.83/0/swagger-annotations-2-1-1-sources-  
jar/io/swagger/v3/oas/annotations/headers/Header.java  
\* /opt/ws\_local/PERMITS\_SQL/1048377619\_1591391943.83/0/swagger-annotations-2-1-1-sources-  
jar/io/swagger/v3/oas/annotations/Parameter.java  
\* /opt/ws\_local/PERMITS\_SQL/1048377619\_1591391943.83/0/swagger-annotations-2-1-1-sources-  
jar/io/swagger/v3/oas/annotations/tags/Tags.java  
\* /opt/ws\_local/PERMITS\_SQL/1048377619\_1591391943.83/0/swagger-annotations-2-1-1-sources-  
jar/io/swagger/v3/oas/annotations/info/Contact.java  
\* /opt/ws\_local/PERMITS\_SQL/1048377619\_1591391943.83/0/swagger-annotations-2-1-1-sources-  
jar/io/swagger/v3/oas/annotations/servers/ServerVariable.java  
\* /opt/ws\_local/PERMITS\_SQL/1048377619\_1591391943.83/0/swagger-annotations-2-1-1-sources-  
jar/io/swagger/v3/oas/annotations/responses/ApiResponse.java  
\* /opt/ws\_local/PERMITS\_SQL/1048377619\_1591391943.83/0/swagger-annotations-2-1-1-sources-  
jar/io/swagger/v3/oas/annotations/security/OAuthFlow.java  
\* /opt/ws\_local/PERMITS\_SQL/1048377619\_1591391943.83/0/swagger-annotations-2-1-1-sources-  
jar/io/swagger/v3/oas/annotations/security/SecurityRequirements.java  
\* /opt/ws\_local/PERMITS\_SQL/1048377619\_1591391943.83/0/swagger-annotations-2-1-1-sources-  
jar/io/swagger/v3/oas/annotations/servers/Servers.java  
\* /opt/ws\_local/PERMITS\_SQL/1048377619\_1591391943.83/0/swagger-annotations-2-1-1-sources-  
jar/io/swagger/v3/oas/annotations/media/Encoding.java  
\* /opt/ws\_local/PERMITS\_SQL/1048377619\_1591391943.83/0/swagger-annotations-2-1-1-sources-  
jar/io/swagger/v3/oas/annotations/Parameters.java  
\* /opt/ws\_local/PERMITS\_SQL/1048377619\_1591391943.83/0/swagger-annotations-2-1-1-sources-  
jar/io/swagger/v3/oas/annotations/extensions/Extensions.java  
\* /opt/ws\_local/PERMITS\_SQL/1048377619\_1591391943.83/0/swagger-annotations-2-1-1-sources-  
jar/io/swagger/v3/oas/annotations/media/ExampleObject.java  
\* /opt/ws\_local/PERMITS\_SQL/1048377619\_1591391943.83/0/swagger-annotations-2-1-1-sources-  
jar/io/swagger/v3/oas/annotations/info/Info.java  
\* /opt/ws\_local/PERMITS\_SQL/1048377619\_1591391943.83/0/swagger-annotations-2-1-1-sources-  
jar/io/swagger/v3/oas/annotations/security/OAuthScope.java  
\* /opt/ws\_local/PERMITS\_SQL/1048377619\_1591391943.83/0/swagger-annotations-2-1-1-sources-  
jar/io/swagger/v3/oas/annotations/OpenAPIDefinition.java

# 1.84 commons-http-client 3.0.1

## 1.84.1 Available under license :

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Version 2.0, January 2004

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```
/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/AutoCloseInputStream.java,v 1.9 2004/04/18 23:51:34
jsdever Exp $
 * $Revision: 291181 $
 * $Date: 2005-09-23 14:13:25 -0400 (Fri, 23 Sep 2005) $
 *
 * =====
 *
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 *
 */
```

```
package org.apache.commons.httpclient;
```

```
import java.io.FilterInputStream;
import java.io.IOException;
```

```

import java.io.InputStream;

/**
 * Closes an underlying stream as soon as the end of the stream is reached, and
 * notifies a client when it has done so.
 *
 * @author Ortwin Glueck
 * @author Eric Johnson
 * @author <a href="mailto:mbowler@GargoyleSoftware.com">Mike Bowler</a>
 *
 * @since 2.0
 */
class AutoCloseInputStream extends FilterInputStream {

    /**
     * True if this stream is open. Assume that the underlying stream
     * is open until we get an EOF indication.
     */
    private boolean streamOpen = true;

    /** True if the stream closed itself. */
    private boolean selfClosed = false;

    /**
     * The watcher is notified when the contents of the stream have
     * been exhausted
     */
    private ResponseConsumedWatcher watcher = null;

    /**
     * Create a new auto closing stream for the provided connection
     *
     * @param in the input stream to read from
     * @param watcher To be notified when the contents of the stream have been
     * consumed.
     */
    public AutoCloseInputStream(
        final InputStream in, final ResponseConsumedWatcher watcher) {
        super(in);
        this.watcher = watcher;
    }

    /**
     * Reads the next byte of data from the input stream.
     *
     * @throws IOException when there is an error reading
     * @return the character read, or -1 for EOF
     */

```

```

public int read() throws IOException {
    int l = -1;

    if (isReadAllowed()) {
        // underlying stream not closed, go ahead and read.
        l = super.read();
        checkClose(l);
    }

    return l;
}

/**
 * Reads up to <code>len</code> bytes of data from the stream.
 *
 * @param b a <code>byte</code> array to read data into
 * @param off an offset within the array to store data
 * @param len the maximum number of bytes to read
 * @return the number of bytes read or -1 for EOF
 * @throws IOException if there are errors reading
 */
public int read(byte[] b, int off, int len) throws IOException {
    int l = -1;

    if (isReadAllowed()) {
        l = super.read(b, off, len);
        checkClose(l);
    }

    return l;
}

/**
 * Reads some number of bytes from the input stream and stores them into the
 * buffer array b.
 *
 * @param b a <code>byte</code> array to read data into
 * @return the number of bytes read or -1 for EOF
 * @throws IOException if there are errors reading
 */
public int read(byte[] b) throws IOException {
    int l = -1;

    if (isReadAllowed()) {
        l = super.read(b);
        checkClose(l);
    }

    return l;
}

```



```

}

/**
 * Close the stream, and also close the underlying stream if it is not
 * already closed.
 * @throws IOException If an IO problem occurs.
 */
public void close() throws IOException {
    if (!selfClosed) {
        selfClosed = true;
        notifyWatcher();
    }
}

/**
 * Close the underlying stream should the end of the stream arrive.
 *
 * @param readResult The result of the read operation to check.
 * @throws IOException If an IO problem occurs.
 */
private void checkClose(int readResult) throws IOException {
    if (readResult == -1) {
        notifyWatcher();
    }
}

/**
 * See whether a read of the underlying stream should be allowed, and if
 * not, check to see whether our stream has already been closed!
 *
 * @return <code>true</code> if it is still OK to read from the stream.
 * @throws IOException If an IO problem occurs.
 */
private boolean isReadAllowed() throws IOException {
    if (!streamOpen && selfClosed) {
        throw new IOException("Attempted read on closed stream.");
    }
    return streamOpen;
}

/**
 * Notify the watcher that the contents have been consumed.
 * @throws IOException If an IO problem occurs.
 */
private void notifyWatcher() throws IOException {
    if (streamOpen) {
        super.close();
        streamOpen = false;
    }
}

```

```
        if (watcher != null) {
            watcher.responseConsumed();
        }
    }
}
```

# 1.85 yum-metadata-parser 1.1.4-10.el7

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 * Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA
 * 02111-1307, USA.
 */
```

Found in path(s):

```
* /opt/cola/permits/1136595876_1654023073.881817/0/yum-metadata-parser-1.1.4-10.el7-1.src.rpm-cosi-expand-
archive-jRbEhi8z/yum-metadata-parser-1.1.4.tar.gz-cosi-expand-archive-z7uqs49I/yum-metadata-parser-
1.1.4/package.c
* /opt/cola/permits/1136595876_1654023073.881817/0/yum-metadata-parser-1.1.4-10.el7-1.src.rpm-cosi-expand-
archive-jRbEhi8z/yum-metadata-parser-1.1.4.tar.gz-cosi-expand-archive-z7uqs49I/yum-metadata-parser-1.1.4/xml-
parser.h
* /opt/cola/permits/1136595876_1654023073.881817/0/yum-metadata-parser-1.1.4-10.el7-1.src.rpm-cosi-expand-
archive-jRbEhi8z/yum-metadata-parser-1.1.4.tar.gz-cosi-expand-archive-z7uqs49I/yum-metadata-parser-
1.1.4/sqlitecache.c
* /opt/cola/permits/1136595876_1654023073.881817/0/yum-metadata-parser-1.1.4-10.el7-1.src.rpm-cosi-expand-
archive-jRbEhi8z/yum-metadata-parser-1.1.4.tar.gz-cosi-expand-archive-z7uqs49I/yum-metadata-parser-1.1.4/db.h
* /opt/cola/permits/1136595876_1654023073.881817/0/yum-metadata-parser-1.1.4-10.el7-1.src.rpm-cosi-expand-
archive-jRbEhi8z/yum-metadata-parser-1.1.4.tar.gz-cosi-expand-archive-z7uqs49I/yum-metadata-parser-
1.1.4/package.h
* /opt/cola/permits/1136595876_1654023073.881817/0/yum-metadata-parser-1.1.4-10.el7-1.src.rpm-cosi-expand-
archive-jRbEhi8z/yum-metadata-parser-1.1.4.tar.gz-cosi-expand-archive-z7uqs49I/yum-metadata-parser-1.1.4/db.c
* /opt/cola/permits/1136595876_1654023073.881817/0/yum-metadata-parser-1.1.4-10.el7-1.src.rpm-cosi-expand-
```

archive-jRbEhi8z/yum-metadata-parser-1.1.4.tar.gz-cosi-expand-archive-z7uqs49I/yum-metadata-parser-1.1.4/xml-parser.c

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

Metadata-Version: 1.0

Name: yum-metadata-parser

Version: 1.1.4

Summary: A fast YUM meta-data parser

Home-page: UNKNOWN

Author: UNKNOWN

Author-email: UNKNOWN

License: UNKNOWN

Description: UNKNOWN

Platform: UNKNOWN

Found in path(s):

\* /opt/cola/permits/1136595876\_1654023073.881817/0/yum-metadata-parser-1.1.4-10.el7-1.src.rpm-cosi-expand-archive-jRbEhi8z/yum-metadata-parser-1.1.4.tar.gz-cosi-expand-archive-z7uqs49I/yum-metadata-parser-1.1.4/PKG-INFO

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Found in path(s):

\* /opt/cola/permits/1136595876\_1654023073.881817/0/yum-metadata-parser-1.1.4-10.el7-1.src.rpm-cosi-expand-archive-jRbEhi8z/yum-metadata-parser-1.1.4.tar.gz-cosi-expand-archive-z7uqs49I/yum-metadata-parser-1.1.4/sqlitecachec.py

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License: GPLv2

Found in path(s):

\* /opt/cola/permits/1136595876\_1654023073.881817/0/yum-metadata-parser-1.1.4-10.el7-1.src.rpm-cosi-expand-archive-jRbEhi8z/yum-metadata-parser.spec

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Found in path(s):

\* /opt/cola/permits/1136595876\_1654023073.881817/0/yum-metadata-parser-1.1.4-10.el7-1.src.rpm-cosi-expand-archive-jRbEhi8z/yum-metadata-parser-1.1.4.tar.gz-cosi-expand-archive-z7uqs49I/yum-metadata-parser-1.1.4/yum-metadata-parser.spec

# 1.86 net-tools 2.0 0.25.20131004git.el7

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Version 2, June 1991

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## 1.87 hawtbuf 1.11

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```
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```

Found in path(s):

```
* /opt/cola/permits/1000773954_1646171575.37/0/hawtbuf-1-11-sources-  
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```
* /opt/cola/permits/1000773954_1646171575.37/0/hawtbuf-1-11-sources-  
jar/org/fusesource/hawtbuf/codec/BytesCodec.java
```

```
* /opt/cola/permits/1000773954_1646171575.37/0/hawtbuf-1-11-sources-
```

jar/org/fusesource/hawtbuf/AsciiBuffer.java  
\* /opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/codec/ObjectCodec.java  
\* /opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/Buffer.java  
\* /opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/BufferEditor.java  
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\* /opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/ByteArrayOutputStream.java  
\* /opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/HexSupport.java  
\* /opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/codec/Codec.java  
\* /opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/UTF8Buffer.java  
\* /opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/codec/VarSignedLongCodec.java  
\* /opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/DataByteArrayOutputStream.java  
\* /opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/BufferInputStream.java  
\* /opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/codec/BufferCodec.java  
\* /opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/DataByteArrayInputStream.java  
\* /opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/codec/VarLongCodec.java  
\* /opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/codec/VariableCodec.java  
\* /opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/codec/IntegerCodec.java  
\* /opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/ByteArrayInputStream.java  
\* /opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/codec/StringCodec.java  
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\* /opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/codec/VarSignedIntegerCodec.java  
\* /opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/BufferOutputStream.java  
\* /opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/codec/AbstractBufferCodec.java

\* /opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/codec/FixedBufferCodec.java

# 1.88 libdaemon 0.14-7.el7

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## 1.96 txw2 20110809

## 1.97 jzlib 1.1.2

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/\*

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\*/

## 1.98 perl-constant 1.27-2.el7

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=head1 NAME

constant - Perl pragma to declare constants

=head1 SYNOPSIS

```
use constant PI => 4 * atan2(1, 1);
```

```
use constant DEBUG => 0;
```

```
print "Pi equals ", PI, "\n" if DEBUG;
```

```
use constant {  
    SEC => 0,  
    MIN => 1,  
    HOUR => 2,  
    MDAY => 3,  
    MON => 4,  
    YEAR => 5,
```

```

    WDAY => 6,
    YDAY => 7,
    ISDST => 8,
};

use constant WEEKDAYS => qw(
    Sunday Monday Tuesday Wednesday Thursday Friday Saturday
);

print "Today is ", (WEEKDAYS)[ (localtime)[WDAY] ], ".\n";

```

=head1 DESCRIPTION

This pragma allows you to declare constants at compile-time.

When you declare a constant such as C<PI> using the method shown above, each machine your script runs upon can have as many digits of accuracy as it can use. Also, your program will be easier to read, more likely to be maintained (and maintained correctly), and far less likely to send a space probe to the wrong planet because nobody noticed the one equation in which you wrote C<3.14195>.

When a constant is used in an expression, Perl replaces it with its value at compile time, and may then optimize the expression further. In particular, any code in an C<if (CONSTANT)> block will be optimized away if the constant is false.

=head1 NOTES

As with all C<use> directives, defining a constant happens at compile time. Thus, it's probably not correct to put a constant declaration inside of a conditional statement (like C<if (\$foo) { use constant ... }>).

Constants defined using this module cannot be interpolated into strings like variables. However, concatenation works just fine:

```

print "Pi equals PI...\n";    # WRONG: does not expand "PI"
print "Pi equals ".PI."...\n"; # right

```

Even though a reference may be declared as a constant, the reference may point to data which may be changed, as this code shows.

```

use constant ARRAY => [ 1,2,3,4 ];
print ARRAY->[1];
ARRAY->[1] = " be changed";
print ARRAY->[1];

```



Dereferencing constant references incorrectly (such as using an array subscript on a constant hash reference, or vice versa) will be trapped at compile time.

Constants belong to the package they are defined in. To refer to a constant defined in another package, specify the full package name, as in `C<Some::Package::CONSTANT>`. Constants may be exported by modules, and may also be called as either class or instance methods, that is, as `C<< Some::Package->CONSTANT >>` or as `C<< $obj->CONSTANT >>` where `C<$obj>` is an instance of `C<Some::Package>`. Subclasses may define their own constants to override those in their base class.

The use of all caps for constant names is merely a convention, although it is recommended in order to make constants stand out and to help avoid collisions with other barewords, keywords, and subroutine names. Constant names must begin with a letter or underscore. Names beginning with a double underscore are reserved. Some poor choices for names will generate warnings, if warnings are enabled at compile time.

=head2 List constants

Constants may be lists of more (or less) than one value. A constant with no values evaluates to `C<undef>` in scalar context. Note that constants with more than one value do *not* return their last value in scalar context as one might expect. They currently return the number of values, but *B<this may change in the future>*. Do not use constants with multiple values in scalar context.

*B<NOTE:>* This implies that the expression defining the value of a constant is evaluated in list context. This may produce surprises:

```
use constant TIMESTAMP => localtime;      # WRONG!
use constant TIMESTAMP => scalar localtime; # right
```

The first line above defines `C<TIMESTAMP>` as a 9-element list, as returned by `C<localtime()>` in list context. To set it to the string returned by `C<localtime()>` in scalar context, an explicit `C<scalar>` keyword is required.

List constants are lists, not arrays. To index or slice them, they must be placed in parentheses.

```
my @workdays = WEEKDAYS[1 .. 5];      # WRONG!
my @workdays = (WEEKDAYS)[1 .. 5];    # right
```

=head2 Defining multiple constants at once

Instead of writing multiple C<use constant> statements, you may define multiple constants in a single statement by giving, instead of the constant name, a reference to a hash where the keys are the names of the constants to be defined. Obviously, all constants defined using this method must have a single value.

```
use constant {
    FOO => "A single value",
    BAR => "This", "won't", "work!",    # Error!
};
```

This is a fundamental limitation of the way hashes are constructed in Perl. The error messages produced when this happens will often be quite cryptic -- in the worst case there may be none at all, and you'll only later find that something is broken.

When defining multiple constants, you cannot use the values of other constants defined in the same declaration. This is because the calling package doesn't know about any constant within that group until I<after> the C<use> statement is finished.

```
use constant {
    BITMASK => 0xAFBAEBA8,
    NEGMASK => ~BITMASK,    # Error!
};
```

=head2 Magic constants

Magical values and references can be made into constants at compile time, allowing for way cool stuff like this. (These error numbers aren't totally portable, alas.)

```
use constant E2BIG => ($! = 7);
print E2BIG, "\n";    # something like "Arg list too long"
print 0+E2BIG, "\n";    # "7"
```

You can't produce a tied constant by giving a tied scalar as the value. References to tied variables, however, can be used as constants without any problems.

=head1 TECHNICAL NOTES

In the current implementation, scalar constants are actually inlinable subroutines. As of version 5.004 of Perl, the appropriate scalar constant is inserted directly in place of some subroutine calls, thereby saving the overhead of a subroutine call. See L<perlsub/"Constant Functions"> for details about how and when this happens.

In the rare case in which you need to discover at run time whether a particular constant has been declared via this module, you may use this function to examine the hash C<%constant::declared>. If the given constant name does not include a package name, the current package is used.

```
sub declared ($) {
    use constant 1.01;          # don't omit this!
    my $name = shift;
    $name =~ s/^\s*/main::/;
    my $pkg = caller;
    my $full_name = $name =~ /::/ ? $name : "${pkg}::$name";
    $constant::declared{$full_name};
}
```

=head1 CAVEATS

In the current version of Perl, list constants are not inlined and some symbols may be redefined without generating a warning.

It is not possible to have a subroutine or a keyword with the same name as a constant in the same package. This is probably a Good Thing.

A constant with a name in the list C<STDIN STDOUT STDERR ARGV ARGVOUT ENV INC SIG> is not allowed anywhere but in package C<main::>, for technical reasons.

Unlike constants in some languages, these cannot be overridden on the command line or via environment variables.

You can get into trouble if you use constants in a context which automatically quotes barewords (as is true for any subroutine call). For example, you can't say C<\$hash{CONSTANT}> because C<CONSTANT> will be interpreted as a string. Use C<\$hash{CONSTANT()}> or C<\$hash{+CONSTANT}> to prevent the bareword quoting mechanism from kicking in. Similarly, since the C<<=>>> operator quotes a bareword immediately to its left, you have to say C<< CONSTANT() => 'value' >> (or simply use a comma in place of the big arrow) instead of C<< CONSTANT => 'value' >>.

=head1 SEE ALSO

L<Readonly> - Facility for creating read-only scalars, arrays, hashes.

L<Attribute::Constant> - Make read-only variables via attribute

L<Scalar::Readonly> - Perl extension to the C<SvREADONLY> scalar flag

L<Hash::Util> - A selection of general-utility hash subroutines (mostly to lock/unlock keys and values)

## =head1 BUGS

Please report any bugs or feature requests via the perlbug(1) utility.

## =head1 AUTHORS

Tom Phoenix, E<lt>F<rootbeer@redcat.com>E<gt>, with help from many other folks.

Multiple constant declarations at once added by Casey West, E<lt>F<casey@geeknest.com>E<gt>.

Documentation mostly rewritten by Ilmari Karonen, E<lt>F<perl@itz.pp.sci.fi>E<gt>.

This program is maintained by the Perl 5 Porters.  
The CPAN distribution is maintained by SE<eacute>bastien Aperghis-Tramoni E<lt>F<sebastien@aperghis.net>E<gt>.

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=cut

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\* /opt/cola/permits/1000848929\_1646171587.67/0/perl-constant-1.27-2.el7.src.rpm-cosi-expand-archive-TwFsgXwu/constant-1.27.tar.gz-cosi-expand-archive-SqgHML5Z/constant-1.27/lib/constant.pm

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---

abstract: 'Perl pragma to declare constants'

author:

- 'SÃ©bastien Aperghis-Tramoni <sebastien@aperghis.net>'

build\_requires:

Test::More: 0

configure\_requires:

Module::Build: 0.2808

dynamic\_config: 1

generated\_by: 'Module::Build version 0.4003, CPAN::Meta::Converter version 2.120921'

license: perl

meta-spec:  
url: <http://module-build.sourceforge.net/META-spec-v1.4.html>  
version: 1.4  
name: constant  
provides:  
constant:  
  file: lib/constant.pm  
  version: 1.27  
resources:  
  license: <http://dev.perl.org/licenses/>  
  version: 1.27

#### Found in path(s):

\* /opt/cola/permits/1000848929\_1646171587.67/0/perl-constant-1.27-2.el7.src.rpm-cosi-expand-archive-TwFsgXwu/constant-1.27.tar.gz-cosi-expand-archive-SqgHML5Z/constant-1.27/META.yml

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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:

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CPAN Ratings:

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```
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```

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```
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```

# 1.99 file 5.11-37.el7

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## 1.101 rsyslog 8.24.0-57.el7\_9

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## 1.102 bzip2 1.0.6 13.e17

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

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## 1.103 telnet 0.17-66.el7

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NeoSoft Tcl client extensions to Lightweight Directory Access Protocol.

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## 1.106 slf4j-log4j 1.7.25

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# 1.108 swagger-core 2.1.1

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

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

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

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

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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](mailto:nickc@redhat.com) and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

+++++

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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Version 3, 29 June 2007

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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 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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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

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

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

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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Version 2.1, February 1999

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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.

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

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

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot

effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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

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

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

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

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

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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 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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#### A. HISTORY OF THE SOFTWARE

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

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

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes

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2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
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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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\* `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 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

\* `atf-c++/detail/io.hpp`, `atf-c++/detail/io.cpp`, `atf-c++/detail/io_test.cpp`: These files were derived from the `file_handle`, `systembuf`, `pipe` and `pistream` classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

\* `admin/check-style.sh`, `admin/check-style-common.awk`, `admin/check-style-cpp.awk`, `admin/check-style-shell.awk`: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

=====  
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

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-->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

```
<xsl:stylesheet version="1.0"
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
  xmlns:xi="http://www.w3.org/2001/XInclude"
  xmlns:db="http://docbook.org/ns/docbook">

  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
  </xsl:template>

  <xsl:variable name="isc.copyright.text">
    <xsl:text>
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      License, v. 2.0. If a copy of the MPL was not distributed with this
      file, You can obtain one at http://mozilla.org/MPL/2.0/.
    </xsl:text>
  </xsl:variable>

  <xsl:variable name="isc.copyright">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text">
        <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
          <xsl:text>Copyright (C) </xsl:text>
          <xsl:call-template name="copyright.years">
            <xsl:with-param name="years" select="year"/>
          </xsl:call-template>
          <xsl:text> </xsl:text>
          <xsl:value-of select="holder"/>
          <xsl:value-of select="$isc.copyright.breakline"/>
          <xsl:text>&#10;</xsl:text>
        </xsl:for-each>
      </xsl:with-param>
    </xsl:call-template>
  </xsl:variable>
</xsl:stylesheet>

<!--
```

- Local variables:

- mode: sgml

- End:

-->

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# 1.122 joda-time 2.3

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# 1.124 jexcel-api 2.6.12

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## 1.125 smtp 1.4.2

## 1.126 hostname 3.13-3.el7\_7.1

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## 1.127 libutempter 1.1.6-4.el7

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Version 2, June 1991

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/\* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

\* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

\*

\* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

\* <http://www.hypermall.com/>

\* 10/1/97 - commented out CFG\_PHYIE bit - we don't care when the PHY

\* interrupts us (except possibly for removal/insertion of the cable?)

\* 10/4/97 - began heavy inline documentation of the code. Corrected typos

\* and spelling mistakes.

\* 10/5/97 - added code to handle PHY interrupts, disable PHY on

\* loss of link, and correctly re-enable PHY when link is

\* re-established. (put back CFG\_PHYIE)

\*

\* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

\*

```

* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*
*/

```

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(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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single nxt200x frontend driver.

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

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



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

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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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That's all there is to it!

# 1.132 pycurl 7.19.0-19.el7

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Upstream-Contact: Yann Collet <[Cyan4973@github.com](mailto:Cyan4973@github.com)>

Source: <https://github.com/lz4/lz4>

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Send patches to [sysvinit-devel@nongnu.org](mailto:sysvinit-devel@nongnu.org)

The of the start-stop-daemon

\* A rewrite of the original Debian's start-stop-daemon Perl script

- \* in C (faster - it is executed many times during system startup).
- \*
- \* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>.
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# 1.140 axis2-transport-local 1.5.6

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# 1.141 pkg-config 0.27.1 4.el7

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.ND 5th July, 1983  
.TL  
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The quota system will warn users when they exceed their allotted limit, but allow some extra space for current work.

Repeatedly remaining over quota at logout, will cause a fatal over quota condition eventually.

.PP

The quota system is an optional part of `\s-2VMUNIX\` that may be included when the system is configured.

.AE

.NH 1

Users' view of disc quotas

.PP

To most users, disc quotas will either be of no concern, or a fact of life that cannot be avoided.

The

`\fquota\fp|(1)`

command will provide information on any disc quotas that may have been imposed upon a user.

.PP

There are two individual possible quotas that may be imposed, usually if one is, both will be.

A limit can be set on the amount of space a user can occupy, and there may be a limit on the number of files (inodes) he can own.

.PP

.I Quota

provides information on the quotas that have been set by the system administrators, in each of these areas, and current usage.

.PP

There are four numbers for each limit, the current usage, soft limit (quota), hard limit, and number of remaining login warnings.

The soft limit is the number of 1K blocks (or files) that the user is expected to remain below.

Each time the user's usage goes past this limit, he will be warned.

The hard limit cannot be exceeded.

If a user's usage reaches this number, further requests for space (or attempts to create a file) will fail with an EDQUOT error, and the first time this occurs, a message will be written to the user's terminal.

Only one message will be output, until space occupied is reduced below the limit, and reaches it again, in order to avoid continual noise from those programs that ignore write errors.

.PP

Whenever a user logs in with a usage greater than his soft limit, he will be warned, and his login warning count decremented.

When he logs in under quota, the counter is reset to its maximum value (which is a system configuration parameter, that is typically 3).

If the warning count should ever reach zero (caused by three successive logins over quota), the particular limit that has been exceeded will be treated as if the hard limit has been reached, and no more resources will be allocated to the user.

The \fBonly\fP way to reset this condition is to reduce usage below quota, then log in again.

.NH 2

Surviving when quota limit is reached

.PP

In most cases, the only way to recover from over quota conditions, is to abort whatever activity was in progress on the filesystem that has reached its limit, remove sufficient files to bring the limit back below quota, and retry the failed program.

.PP

However, if you are in the editor and a write fails because of an over quota situation, that is not a suitable course of action, as it is most likely that initially attempting to write the file

will have truncated its previous contents, so should the editor be aborted without correctly writing the file not only will the recent changes be lost, but possibly much, or even all, of the data that previously existed.

.PP

There are several possible safe exits for a user caught in this situation.

He may use the editor `\fB!\fP` shell escape command to examine his file space, and remove surplus files.

Alternatively, using `\fIcsh\fP`, he may suspend the editor, remove some files, then resume it.

A third possibility, is to write the file to some other filesystem (perhaps to a file on `/tmp`) where the user's quota has not been exceeded.

Then after rectifying the quota situation, the file can be moved back to the filesystem it belongs on.

.NH 1

Administering the quota system

.PP

To set up and establish the disc quota system, there are several steps necessary to be performed by the system administrator.

.PP

First, the system must be configured to include the disc quota sub-system.

This is done by including the line:

.DS

options QUOTA

.DE

in the system configuration file, then running

`\fIconfig\fP\|(8)`

followed by a system configuration `\s-3\u*\d\s0`.

.FS

\* See also the document ``Building 4.2BSD UNIX Systems with Config''.

.FE

.PP

Second, a decision as to what filesystems need to have quotas applied needs to be made.

Usually, only filesystems that house users' home directories, or other user files, will need to be subjected to the quota system, though it may also prove useful to also include `\fB/usr\fR`.

If possible, `\fB/tmp\fP` should usually be free of quotas.

.PP

Having decided on which filesystems quotas need to be set upon, the administrator should then allocate the

available space amongst the competing needs. How this should be done is (way) beyond the scope of this document.

.PP

Then, the

`\fledquota`[\fP](#)[\](#)(8)

command can be used to actually set the limits desired upon each user. Where a number of users are to be given the same quotas (a common occurrence) the `\fB`[\](#)-p[\fP](#) switch to `edquota` will allow this to be easily accomplished.

.PP

Once the quotas are set, ready to operate, the system must be informed to enforce quotas on the desired filesystems.

This is accomplished with the

`\fIquotaon`[\fP](#)[\](#)(8)

command.

.I Quotaon

will either enable quotas for a particular filesystem, or with the `\fB`[\](#)-a[\fP](#) switch, will enable quotas for each filesystem indicated in `\fB/etc/fstab`[\fP](#) as using quotas.

See

`\fIfstab`[\fP](#)[\](#)(5)

for details.

Most sites using the quota system, will include the line

.DS C

`/etc/quotaon -a`

.DE

in `\fB/etc/rc.local`[\fP](#).

.PP

Should quotas need to be disabled, the

`\fIquotaoff`[\fP](#)[\](#)(8)

command will do that, however, should the filesystem be about to be dismounted, the

`\fUmount`[\fP](#)[\](#)(8)

command will disable quotas immediately before the filesystem is unmounted.

This is actually an effect of the

`\fUmount`[\fP](#)[\](#)(2)

system call, and it guarantees that the quota system will not be disabled if the umount would fail because the filesystem is not idle.

.PP

Periodically (certainly after each reboot, and when quotas are first enabled for a filesystem), the records retained in the quota file should be checked for consistency with the actual number of blocks and files allocated to the user.

The



`\fquotacheck`(8)

command can be used to accomplish this.

It is not necessary to dismount the filesystem, or disable the quota system to run this command, though on active filesystems inaccurate results may occur.

This does no real harm in most cases, another run of

`.I quotacheck`

when the filesystem is idle will certainly correct any inaccuracy.

.PP

The super-user may use the

`\fquota`(1)

command to examine the usage and quotas of any user, and the

`\frepquota`(8)

command may be used to check the usages and limits for all users on a filesystem.

.NH 1

Some implementation detail.

.PP

Disc quota usage and information is stored in a file on the filesystem that the quotas are to be applied to.

Conventionally, this file is `\fBquotas` in the root of the filesystem.

While this name is not known to the system in any way, several of the user level utilities "know" it, and choosing any other name would not be wise.

.PP

The data in the file comprises an array of structures, indexed by uid, one structure for each user on the system (whether the user has a quota on this filesystem or not).

If the uid space is sparse, then the file may have holes in it, which would be lost by copying, so it is best to avoid this.

.PP

The system is informed of the existence of the quota file by the

`\fIsetquota`(2)

system call.

It then reads the quota entries for each user currently active, then for any files open owned by users who are not currently active.

Each subsequent open of a file on the filesystem, will be accompanied by a pairing with its quota information.

In most cases this information will be retained in core, either because the user who owns the file is running some process, because other files are open owned by the same user, or because some file (perhaps this one) was recently accessed.

In memory, the quota information is kept hashed by user-id and filesystem, and retained in an LRU chain so recently released data can be easily reclaimed.

Information about those users whose last process has recently terminated is also retained in this way.

.PP

Each time a block is accessed or released, and each time an inode is allocated or freed, the quota system gets told about it, and in the case of allocations, gets the opportunity to object.

.PP

Measurements have shown that the quota code uses a very small percentage of the system cpu time consumed in writing a new block to disc.

.NH 1

Acknowledgments

.PP

The current disc quota system is loosely based upon a very early scheme implemented at the University of New South Wales, and Sydney University in the mid 70's. That system implemented a single combined limit for both files and blocks on all filesystems.

.PP

A later system was implemented at the University of Melbourne by the author, but was not kept highly accurately, eg: chown's (etc) did not affect quotas, nor did i/o to a file other than one owned by the instigator.

.PP

The current system has been running (with only minor modifications) since January 82 at Melbourne.

It is actually just a small part of a much broader resource control scheme, which is capable of controlling almost anything that is usually uncontrolled in unix. The rest of this is, as yet, still in a state where it is far too subject to change to be considered for distribution.

.PP

For the 4.2BSD release, much work has been done to clean up and sanely incorporate the quota code by Sam Leffler and Kirk McKusick at The University of California at Berkeley.

Found in path(s):

```
* /opt/cola/permits/1008492310_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/doc/quotas.ms
```

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

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Found in path(s):

```
* /opt/cola/permits/1008492310_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-
mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/po/de.po
* /opt/cola/permits/1008492310_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-
mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/pot.po
No license file was found, but licenses were detected in source scan.
```

```
/*
```

```
* Copyright (c) 1980, 1990 Regents of the University of California. All
* rights reserved.
```

```
*
```

```
* This code is derived from software contributed to Berkeley by Robert Elz at
* The University of Melbourne.
```

```
*
```

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*
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* SUCH DAMAGE.
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1008492310_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-
mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/quota.c
* /opt/cola/permits/1008492310_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-
mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/quotaon.c
* /opt/cola/permits/1008492310_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-
mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/quotaio_v1.c
* /opt/cola/permits/1008492310_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-
```

mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/edquota.c  
\* /opt/cola/permits/1008492310\_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-  
mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/quotaops.c  
No license file was found, but licenses were detected in source scan.

```
/*
* QUOTA  An implementation of the diskquota system for the LINUX operating
*        system. QUOTA is implemented using the BSD syscall interface
*        as the means of communication with the user level. Should work for
*        all filesystems because of integration into the VFS layer of the
*        operating system. This is based on the Melbourne quota system wich
*        uses both user and group quota files.
*
*        Program to mail to users that they are over there quota.
*
* Author: Marco van Wieringen <mvw@planets.elm.net>
*
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*        modify it under the terms of the GNU General Public License as
*        published by the Free Software Foundation; either version 2 of
*        the License, or (at your option) any later version.
*/
```

Found in path(s):

\* /opt/cola/permits/1008492310\_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-  
mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/warnquota.c  
No license file was found, but licenses were detected in source scan.

.\ " Released under the Gnu GPL

Found in path(s):

\* /opt/cola/permits/1008492310\_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-  
mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/xqmstats.8  
\* /opt/cola/permits/1008492310\_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-  
mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/quotastats.8  
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (c) 1980, 1990 Regents of the University of California.
* Copyright (C) 2000, 2001 Silicon Graphics, Inc. [SGI]
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*
* [Extensions to support XFS are copyright SGI]
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 \* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF  
 \* SUCH DAMAGE.  
 \*/

Found in path(s):

\* /opt/cola/permits/1008492310\_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-  
 mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/quot.h  
 \* /opt/cola/permits/1008492310\_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-  
 mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/quot.c

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

/\*

\* QUOTA An implementation of the diskquota system for the LINUX operating  
 \* system. QUOTA is implemented using the BSD syscall interface  
 \* as the means of communication with the user level. Should work for  
 \* all filesystems because of integration into the VFS layer of the  
 \* operating system. This is based on the Melbourne quota system wich  
 \* uses both user and group quota files.

\*

\* Program to query for the internal statistics.

\*

\* Author: Marco van Wieringen <mvw@planets.elm.net>

\*

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 \* the License, or (at your option) any later version.

\*/

Found in path(s):

```
* /opt/cola/permits/1008492310_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-
mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/quotastats.c
```

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

```
/* Copyright (C) 2002 Free Software Foundation, Inc.
```

```
This file is part of the GNU C Library.
```

```
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```

```
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License along with the GNU C Library; if not, write to the Free
Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA
02111-1307 USA. */
```

Found in path(s):

```
* /opt/cola/permits/1008492310_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-
mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/svc_socket.c
```

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

```
/*
```

```
* QUOTA  An implementation of the diskquota system for the LINUX operating
*        system. QUOTA is implemented using the BSD syscall interface
*        as the means of communication with the user level. Should work for
*        all filesystems because of integration into the VFS layer of the
*        operating system. This is based on the Melbourne quota system which
*        uses both user and group quota files.
```

```
*
```

```
*        Rquota service handlers.
```

```
*
```

```
* Author: Marco van Wieringen <mvw@planets.elm.net>
*         changes for new utilities by Jan Kara <jack@suse.cz>
*         patches by Jani Jaakkola <jjaakkol@cs.helsinki.fi>
```

```
*
```

```
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*        published by the Free Software Foundation; either version 2 of
*        the License, or (at your option) any later version.
```

```
*/
```

Found in path(s):

\* /opt/cola/permits/1008492310\_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/rquota\_svc.c

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

/\*

\* A daemon to read quota warning messages from the kernel netlink socket  
\* and either pipe them to the system DBUS or write them to user's console

\*

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Found in path(s):

\* /opt/cola/permits/1008492310\_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/quota\_nld.c

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

/\*

\* QUOTA An implementation of the diskquota system for the LINUX  
\* operating system. QUOTA is implemented using the BSD syscall  
\* interface as the means of communication with the user level.  
\* Should work for all filesystems because of integration into the  
\* VFS layer of the operating system.

\* This is based on the Melbourne quota system which uses both user and  
\* group quota files.

\*

\* This part does the rpc-communication with the rquotad.

\*

\* Author: Marco van Wieringen <mvw@planets.elm.net>

\*

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\* 2 of the License, or (at your option) any later version.

\*/

Found in path(s):

\* /opt/cola/permits/1008492310\_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-

mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/rquota\_client.c

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

# msgids are distributed under the same license as particular source files.

# msgstrs (i.e. translations) are distributed under GPLv2+.

Found in path(s):

\* /opt/cola/permits/1008492310\_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/po/cs.po

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

License: BSD and LGPLv2+ and GPLv2 and GPLv2+

Found in path(s):

\* /opt/cola/permits/1008492310\_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-mSjAC3Ah/quota.spec

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

# Options to pass to rpc.rquotad daemon. See rpc.rquotad(8) manual page for

# more details.

# -I, --autofs Ignore autofs mount points

# -p port, --port port Listen on alternative port

# -s, --no-setquota Don't allow setting quotas with RPC (default)

# -S, --setquota Allow setting quotas with RPC

# -x path, --xtab path Use alternative NFS export table

RPCRQUOTADOPTS=""

Found in path(s):

\* /opt/cola/permits/1008492310\_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-mSjAC3Ah/rpc-rquotad.sysconfig

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

/\*

\* QUOTA An implementation of the diskquota system for the LINUX

\* operating system. QUOTA is implemented using the BSD syscall

\* interface as the means of communication with the user level.

\* Should work for all filesystems because of integration into the

\* VFS layer of the operating system.

\* This is based on the Melbourne quota system which uses both user and

\* group quota files.

\*

\* This part does the lookup of the info.

\*

\* Author: Marco van Wieringen <mvw@planets.elm.net>

\*

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\*/

Found in path(s):

\* /opt/cola/permits/1008492310\_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/rquota\_server.c

## 1.147 popt 1.13 16.el7

### 1.147.1 Available under license :

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## 1.148 httpclient-osgi 4.3

### 1.148.1 Available under license :

Apache HttpClient OSGi bundle

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# 1.156 dracut 033-572.el7

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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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agere\_sta\_fw.bin -- 9.48 Hermes I  
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Hope this helps.

Sincerely,

Viren Pathare  
Intellectual Property Licensing Manager  
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Firmware provided by Patrick Boettcher <pboettcher@dibcom.fr> to Devin Heitmueller <dheitmueller@kernellabs.com> on October 8, 2009.



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Firmware provided as part of an XC5000 Linux developers kit by Brian Mathews <bmathews@xceive.com> to Devin Heitmueller <dheitmueller@linuxtv.org> on July 1, 2009.

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Chelsio Communication Terminator 4 ethernet controller firmware

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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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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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"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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# 1.163 geronimo-jta 1.1.1

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## 1.164 rsync 3.1.2 10.e17

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# 1.165 vt-crypt 2.2

## 1.166 Ishw B.02.18-17.eI7

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# 1.169 log4j-api 2.13.1

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## 1.170 passwd 0.79 6.el7

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

```
This program is free software: you can redistribute it and/or modify  
it under the terms of the GNU General Public License as published by  
the Free Software Foundation, either version 3 of the License, or  
(at your option) any later version.
```

```
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MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
GNU General Public License for more details.
```

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

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## 1.172 iozone 3.408

### 1.172.1 Available under license :

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# 1.173 stix-fonts 1.1.0-5.el7

## 1.173.1 Available under license :

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

%global fontname stix

%global fontconf 61-%{fontname}

%global archivename STIXv%{version}

%global common\_desc \

The mission of the Scientific and Technical Information Exchange (STIX) font \ creation project is the preparation of a comprehensive set of fonts that serve \ the scientific and engineering community in the process from manuscript \ creation through final publication, both in electronic and print formats.

Name: %{fontname}-fonts

Version: 1.1.0

Release: 5%{?dist}

Summary: Scientific and engineering fonts

Group: User Interface/X

License: OFL

URL: <http://www.stixfonts.org/>

Source0: <http://downloads.sourceforge.net/stixfonts/%{archivename}.zip>

Source10: stix-fonts-fontconfig.conf

Source11: stix-fonts-math-fontconfig.conf

BuildArch: noarch

BuildRequires: fontpackages-devel

Requires: fontpackages-filesystem

Obsoletes: stix-fonts-doc < 1.1.0

%description

%common\_desc

This package includes base Unicode fonts containing most glyphs for standard use in the usual four styles.

%\_font\_pkg -f %{fontconf}.conf STIX-\*.otf

```
%doc License/*.pdf *.pdf
```

```
%package -n % {fontname}-math-fonts
```

```
Summary: Scientific and engineering fonts, PUA glyphs
```

```
Requires: % {name} = % {version}-% {release}
```

```
Obsoletes: stix-integrals-fonts < 1.1.0
```

```
Obsoletes: stix-pua-fonts < 1.1.0
```

```
Obsoletes: stix-sizes-fonts < 1.1.0
```

```
Obsoletes: stix-variants-fonts < 1.1.0
```

```
%description -n % {fontname}-math-fonts
```

```
%common_desc
```

This package includes one symbol font completing the four faces in the main % {name} package. It replaces the heap of confusing fontlets in the first Stix release.

```
_%font_pkg -n math -f % {fontconf}-math.conf STIXMath*.otf
```

```
%prep
```

```
%setup -q -c
```

```
%build
```

```
%install
```

```
rm -fr % {buildroot}
```

```
install -m 0755 -d % {buildroot}% {_fontdir}
```

```
install -m 0644 -p Fonts/STIX-Word/*.otf % {buildroot}% {_fontdir}
```

```
install -m 0755 -d % {buildroot}% {_fontconfig_templatedir} \
```

```
    % {buildroot}% {_fontconfig_confdir}
```

```
install -m 0644 -p % {SOURCE10} \
```

```
    % {buildroot}% {_fontconfig_templatedir}/% {fontconf}.conf
```

```
install -m 0644 -p % {SOURCE11} \
```

```
    % {buildroot}% {_fontconfig_templatedir}/% {fontconf}-math.conf
```

```
for fconf in % {fontconf}.conf \
```

```
    % {fontconf}-math.conf ; do
```

```
ln -s % {_fontconfig_templatedir}/$fconf \
```

```
    % {buildroot}% {_fontconfig_confdir}/$fconf
```

done

%clean

rm -fr % {buildroot}

%changelog

\* Fri Dec 27 2013 Daniel Mach <dmach@redhat.com> - 1.1.0-5

- Mass rebuild 2013-12-27

\* Fri Feb 15 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.1.0-4

- Rebuilt for [https://fedoraproject.org/wiki/Fedora\\_19\\_Mass\\_Rebuild](https://fedoraproject.org/wiki/Fedora_19_Mass_Rebuild)

\* Thu Nov 08 2012 Stanislav Ochotnicky <sochotnicky@redhat.com> - 1.1.0-3

- Upstream changed their tarball with new pdf, rebuild

\* Sat Jul 21 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.1.0-2

- Rebuilt for [https://fedoraproject.org/wiki/Fedora\\_18\\_Mass\\_Rebuild](https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild)

\* Sun Jul 8 2012 Nicolas Mailhot <nicolas.mailhot at laposte.net>

- 1.1.0-1

Update to new stable release

Major refactoring now that some sanity prevailed upstream in font naming

Be careful if you used the old font family names

\* Sat Jan 14 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.0.0-3

- Rebuilt for [https://fedoraproject.org/wiki/Fedora\\_17\\_Mass\\_Rebuild](https://fedoraproject.org/wiki/Fedora_17_Mass_Rebuild)

\* Wed Feb 09 2011 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.0.0-2

- Rebuilt for [https://fedoraproject.org/wiki/Fedora\\_15\\_Mass\\_Rebuild](https://fedoraproject.org/wiki/Fedora_15_Mass_Rebuild)

\* Sun Jul 25 2010 Nicolas Mailhot <nicolas.mailhot at laposte.net>

- 1.0.0-1

Update to non-beta release

Switch licensing to OFL

Add -doc subpackage

\* Sun Jul 26 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org>

- 0.9-13

Rebuilt for [https://fedoraproject.org/wiki/Fedora\\_12\\_Mass\\_Rebuild](https://fedoraproject.org/wiki/Fedora_12_Mass_Rebuild)

\* Wed Feb 25 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org>

- 0.9-12

Rebuilt for [https://fedoraproject.org/wiki/Fedora\\_11\\_Mass\\_Rebuild](https://fedoraproject.org/wiki/Fedora_11_Mass_Rebuild)

\* Mon Feb 16 2009 Nicolas Mailhot <nicolas.mailhot at laposte.net>

- 0.9-11

prepare for F11 mass rebuild, new rpm and new fontpackages

\* Fri Jan 16 2009 Nicolas Mailhot <nicolas.mailhot at laposte.net>

- 0.9-10

Convert to new naming guidelines

\* Sun Nov 23 2008 Nicolas Mailhot <nicolas.mailhot at laposte.net>

- 0.9-9

rpm-fonts renamed to fontpackages

\* Fri Nov 14 2008 Nicolas Mailhot <nicolas.mailhot at laposte.net>

- 0.9-8

Rebuild using new rpm-fonts

\* Fri Jul 11 2008 Nicolas Mailhot <nicolas.mailhot at laposte.net>

- 0.9-7

Fedora 10 alpha general package cleanup

\* Thu Nov 1 2007 Nicolas Mailhot <nicolas.mailhot at laposte.net>

0.9-6

Add some fontconfig aliasing rules

0.9-4

Initial experimental packaging

Found in path(s):

\* /opt/cola/permits/1001043378\_1607405198.9/0/stix-fonts-1.1.0-5.el7-1.src.rpm-cosi-expand-archive-xq9BqmGW/stix-fonts.spec

# 1.174 inetutils 0.17-66.el7

## 1.174.1 Available under license :

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Version 3, 29 June 2007

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## 1.176 loopy 0.5

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/*  
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\*/

Found in path(s):  
\* /opt/cola/permits/1428127090\_1664353145.306008/0/loopy-0-5-sources-2-

jar/org/kohsuke/loopy/iso9660/ISO9660FileSystem.java  
\* /opt/cola/permits/1428127090\_1664353145.306008/0/loopy-0-5-sources-2-  
jar/org/kohsuke/loopy/iso9660/ISO9660FileEntry.java  
\* /opt/cola/permits/1428127090\_1664353145.306008/0/loopy-0-5-sources-2-  
jar/org/kohsuke/loopy/iso9660/EntryInputStream.java  
\* /opt/cola/permits/1428127090\_1664353145.306008/0/loopy-0-5-sources-2-  
jar/org/kohsuke/loopy/util/BigEndian.java  
\* /opt/cola/permits/1428127090\_1664353145.306008/0/loopy-0-5-sources-2-jar/org/kohsuke/loopy/FileEntry.java  
\* /opt/cola/permits/1428127090\_1664353145.306008/0/loopy-0-5-sources-2-  
jar/org/kohsuke/loopy/iso9660/ISO9660VolumeDescriptorSet.java  
\* /opt/cola/permits/1428127090\_1664353145.306008/0/loopy-0-5-sources-2-  
jar/org/kohsuke/loopy/iso9660/Constants.java  
\* /opt/cola/permits/1428127090\_1664353145.306008/0/loopy-0-5-sources-2-jar/org/kohsuke/loopy/FileSystem.java  
\* /opt/cola/permits/1428127090\_1664353145.306008/0/loopy-0-5-sources-2-  
jar/org/kohsuke/loopy/AbstractFileSystem.java  
\* /opt/cola/permits/1428127090\_1664353145.306008/0/loopy-0-5-sources-2-  
jar/org/kohsuke/loopy/AbstractBlockFileSystem.java  
\* /opt/cola/permits/1428127090\_1664353145.306008/0/loopy-0-5-sources-2-  
jar/org/kohsuke/loopy/VolumeDescriptorSet.java  
\* /opt/cola/permits/1428127090\_1664353145.306008/0/loopy-0-5-sources-2-  
jar/org/kohsuke/loopy/iso9660/Util.java  
\* /opt/cola/permits/1428127090\_1664353145.306008/0/loopy-0-5-sources-2-  
jar/org/kohsuke/loopy/util/LittleEndian.java  
\* /opt/cola/permits/1428127090\_1664353145.306008/0/loopy-0-5-sources-2-  
jar/org/kohsuke/loopy/LoopyException.java

## 1.177 commons-lang3 3.2.1

## 1.178 jclouds-core 1.0-beta-7

## 1.179 xmlsec 1.2.20-7.el7\_4

### 1.179.1 Available under license :

xmlsec, xmlsec-openssl, xmlsec-gnutls, xmlsec-gcrypt libraries  
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#### References

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<http://www.aleksey.com/pipermail/xmlsec/2003/005488.html>

<http://www.aleksey.com/pipermail/xmlsec/attachments/20030729/0e25648e/attachment.htm>

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<http://www.aleksey.com/pipermail/xmlsec/2003/005581.html>

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# 1.180 newt 0.52.15 4.e17

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```

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## 1.183 perl-carp 1.26-244.e17

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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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```
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```

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=head1 NAME

Carp - alternative warn and die for modules

=head1 SYNOPSIS

```
use Carp;
```

```
# warn user (from perspective of caller)
carp "string trimmed to 80 chars";
```

```
# die of errors (from perspective of caller)
croak "We're outta here!";
```

```
# die of errors with stack backtrace
confess "not implemented";
```

```
# cluck not exported by default
use Carp qw(cluck);
cluck "This is how we got here!";
```

=head1 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 C<carp> or C<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 C<Carp> works, by changing some global variables in the C<Carp> namespace. See the section on C<GLOBAL VARIABLES> below.

Here is a more complete description of how C<carp> and C<croak> work. What they do is search the call-stack for a function call stack where they have not been told that there shouldn't be an error. If every call is marked safe, they give up and give a full stack backtrace instead. In other words they presume that the first likely looking potential suspect is guilty. Their rules for telling whether a call shouldn't generate errors work as follows:

=over 4

=item 1.

Any call from a package to itself is safe.

=item 2.

Packages claim that there won't be errors on calls to or from packages explicitly marked as safe by inclusion in C<@CARP\_NOT>, or (if that array is empty) C<@ISA>. The ability to override what @ISA says is new in 5.8.

=item 3.

The trust in item 2 is transitive. If A trusts B, and B trusts C, then A trusts C. So if you do not override C<@ISA> with C<@CARP\_NOT>, then this trust relationship is identical to, "inherits from".

=item 4.

Any call from an internal Perl module is safe. (Nothing keeps user modules from marking themselves as internal to Perl, but this practice is discouraged.)

=item 5.

Any call to Perl's warning system (eg Carp itself) is safe. (This rule is what keeps it from reporting the error at the point where you call `C<carp>` or `C<croak>`.)

=item 6.

`C<$Carp::CarpLevel>` can be set to skip a fixed number of additional call levels. Using this is not recommended because it is very difficult to get it to behave correctly.

=back

=head2 Forcing a Stack Trace

As a debugging aid, you can force Carp to treat a croak as a confess and a carp as a cluck across I<all> modules. In other words, force a detailed stack trace to be given. This can be very helpful when trying to understand why, or from where, a warning or error is being generated.

This feature is enabled by 'importing' the non-existent symbol 'verbose'. You would typically enable it by saying

```
perl -MCarp=verbose script.pl
```

or by including the string `C<-MCarp=verbose>` in the PERL5OPT environment variable.

Alternately, you can set the global variable `C<$Carp::Verbose>` to true. See the C<GLOBAL VARIABLES> section below.

=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 value of C<0> to show all arguments to a function call.

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_NOT
```

This variable, I<in your package>, says which packages are I<not> to be considered as the location of an error. The C<carp()> and C<cluck()> functions will skip over callers when reporting where an error occurred.

NB: This variable must be in the package's symbol table, thus:

```
# These work
our @CARP_NOT; # file scope
use vars qw(@CARP_NOT); # package scope
@My::Package::CARP_NOT = ... ; # explicit package variable
```

```
# These don't work
sub xyz { ... @CARP_NOT = ... } # w/o declarations above
my @CARP_NOT; # even at top-level
```

Example of use:

```
package My::Carping::Package;
use Carp;
our @CARP_NOT;
sub bar { ... or _error('Wrong input') }
sub _error {
    # temporary control of where'ness, __PACKAGE__ is implicit
    local @CARP_NOT = qw(My::Friendly::Caller);
    carp(@_)
}
```

```
}
```

This would make C<Carp> report the error as coming from a caller not in C<My::Carping::Package>, nor from C<My::Friendly::Caller>.

Also read the L<DESCRIPTION> section above, about how C<Carp> decides where the error is reported from.

Use C<@CARP\_NOT>, instead of C<\$Carp::CarpLevel>.

Overrides C<Carp>'s use of C<@ISA>.

```
=head2 %Carp::Internal
```

This says what packages are internal to Perl. C<Carp> will never report an error as being from a line in a package that is internal to Perl. For example:

```
$Carp::Internal{ (__PACKAGE__) }++;  
# time passes...  
sub foo { ... or confess("whatever") };
```

would give a full stack backtrace starting from the first caller outside of `__PACKAGE__`. (Unless that package was also internal to Perl.)

```
=head2 %Carp::CarpInternal
```

This says which packages are internal to Perl's warning system. For generating a full stack backtrace this is the same as being internal to Perl, the stack backtrace will not start inside packages that are listed in C<%Carp::CarpInternal>. But it is slightly different for the summary message generated by C<carp> or C<croak>. There errors will not be reported on any lines that are calling packages in C<%Carp::CarpInternal>.

For example C<Carp> itself is listed in C<%Carp::CarpInternal>. Therefore the full stack backtrace from C<confess> will not start inside of C<Carp>, and the short message from calling C<croak> is not placed on the line where 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 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 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 misleadingly very high in the call stack.

Therefore it is best to avoid C<\$Carp::CarpLevel>. Instead use C<@CARP\_NOT>, C<%Carp::Internal> and C<%Carp::CarpInternal>.

Defaults to C<0>.

=head1 BUGS

The Carp routines don't handle exception objects currently. If called with a first argument that is a reference, they simply call die() or warn(), as appropriate.

=head1 SEE ALSO

L<Carp::Always>,  
L<Carp::Clan>

=head1 AUTHOR

The Carp module first appeared in Larry Wall's perl 5.000 distribution. Since then it has been modified by several of the perl 5 porters. Andrew Main (Zefram) <zefram@fysh.org> divested Carp into an independent distribution.

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---

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 6.6302, 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: Carp  
no\_index:  
directory:  
- t  
- inc  
requires:  
Exporter: 0  
IPC::Open3: 1.0103  
Test::More: 0  
strict: 0  
warnings: 0  
version: 1.26

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# 1.184 javax-el 3.0.1-b08

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# 1.188 yavijava 6.0.04

## 1.188.1 Available under license :

```
/*=====
```

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=====\*/

```
package com.vmware.vim25;
```

```
/**
```

```
* @author Steve Jin (http://www.doublecloud.org)
```

```
* @version 5.1
```

```
*/
```

```
@SuppressWarnings("all")
```

```
public class ExpiredAddonLicense extends ExpiredFeatureLicense {
```

```
}
```

```
/*=====
```

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=====\*/

```
package com.vmware.vim25;
```

```
import java.util.Calendar;
```

```
/**
```

```
 * @author Steve Jin (http://www.doublecloud.org)
```

```
 * @version 5.1
```

```
 */
```

```
@SuppressWarnings("all")
```

```
public class ExpiredFeatureLicense extends NotEnoughLicenses {
```

```
    public String feature;
```

```
    public int count;
```

```
    public Calendar expirationDate;
```

```
    public String getFeature() {
```

```
        return this.feature;
```

```
    }
```

```
    public int getCount() {
```

```
        return this.count;
```

```
    }
```

```
    public Calendar getExpirationDate() {
```

```
        return this.expirationDate;
```

```
    }
```

```
    public void setFeature(String feature) {
```

```
        this.feature = feature;
```

```
    }
```

```
    public void setCount(int count) {
```

```
        this.count = count;
```

```
    }
```

```
    public void setExpirationDate(Calendar expirationDate) {
```

```
        this.expirationDate = expirationDate;
```

```
    }
```

```
}
```

/\*-----

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=====\*/

package com.vmware.vim25;

/\*\*

\* @author Steve Jin (<http://www.doublecloud.org>)

\* @version 5.1

\*/

@SuppressWarnings("all")

public class Permission extends DynamicData {

    public ManagedObjectReference entity;

    public String principal;

    public boolean group;

    public int roleId;

    public boolean propagate;

    public ManagedObjectReference getEntity() {

        return this.entity;

    }

```

public String getPrincipal() {
    return this.principal;
}

public boolean isGroup() {
    return this.group;
}

public int getRoleId() {
    return this.roleId;
}

public boolean isPropagate() {
    return this.propagate;
}

public void setEntity(ManagedObjectReference entity) {
    this.entity = entity;
}

public void setPrincipal(String principal) {
    this.principal = principal;
}

public void setGroup(boolean group) {
    this.group = group;
}

public void setRoleId(int roleId) {
    this.roleId = roleId;
}

public void setPropagate(boolean propagate) {
    this.propagate = propagate;
}
}
/*=====

```

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=====\*/

```
package com.vmware.vim25;
```

```
/**
```

```
 * @author Steve Jin (http://www.doublecloud.org)
```

```
 * @version 5.1
```

```
*/
```

```
@SuppressWarnings("all")
```

```
public class InvalidEditionLicense extends NotEnoughLicenses {
```

```
    public String feature;
```

```
    public String getFeature() {
```

```
        return this.feature;
```

```
    }
```

```
    public void setFeature(String feature) {
```

```
        this.feature = feature;
```

```
    }
```

```
}
```

```
/*=====
```

```
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```

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=====\*/

```
package com.vmware.vim25;
```

```
/**
```

```
* @author Steve Jin (http://www.doublecloud.org)
```

```
* @version 5.1
```

```
*/
```

```
@SuppressWarnings("all")
```

```
public class VramLimitLicense extends NotEnoughLicenses {
```

```
    public int limit;
```

```
    public int getLimit() {
```

```
        return this.limit;
```

```
    }
```

```
    public void setLimit(int limit) {
```

```
        this.limit = limit;
```

```
    }
```

```
}
```

```
/*=====
```

```
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```

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=====\*/

package com.vmware.vim25;

/\*\*

\* @author Steve Jin (<http://www.doublecloud.org>)

\* @version 5.1

\*/

@SuppressWarnings("all")

```
public class NotEnoughLicenses extends RuntimeException {  
}
```

/\*=====

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=====\*/

```
package com.vmware.vim25;
```

```
/**
```

```
 * @author Steve Jin (http://www.doublecloud.org)
```

```
 * @version 5.1
```

```
 */
```

```
@SuppressWarnings("all")
```

```
public class VmLimitLicense extends NotEnoughLicenses {
```

```
    public int limit;
```

```
    public int getLimit() {
```

```
        return this.limit;
```

```
    }
```

```
    public void setLimit(int limit) {
```

```
        this.limit = limit;
```

```
    }
```

```
}
```

```
/*=====
```

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=====\*/

```
package com.vmware.vim25;
```

```
/**
```

```
 * @author Steve Jin (http://www.doublecloud.org)
```

```
 * @version 5.1
```

```
 */
```

```
@SuppressWarnings("all")
```

```
public class ExpiredEditionLicense extends ExpiredFeatureLicense {
```

```
}
```

```
/*=====
```

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=====\*/

```
package com.vmware.vim25;
```

```
/**
```

```
 * @author Steve Jin (http://www.doublecloud.org)
```

```
 * @version 5.1
```

```
 */
```

```
@SuppressWarnings("all")
```

```
public class InvalidLicense extends VimFault {
```

```
    public String licenseContent;
```

```
    public String getLicenseContent() {
```

```
        return this.licenseContent;
```

```
    }
```

```
    public void setLicenseContent(String licenseContent) {
```

```
        this.licenseContent = licenseContent;
```

```
    }
```

```
}
```

## 1.189 commons-configuration 1.10

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## 1.190.1 Available under license :

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History:

Date	Who	What
28oct1999	dl	Created
14dec1999	dl	jmm snapshot
19apr2000	dl	use barrierLock
12jan2001	dl	public release
17nov2001	dl	Minor tunings
20may2002	dl	BarrierLock can now be serialized.
09dec2002	dl	Fix interference checks.

\*/

Found in path(s):

\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/ConcurrentReaderHashMap.java

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\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-

jar/org/dom4j/InvalidXPathException.java

\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/ProcessingInstruction.java

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 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-  
 jar/org/dom4j/xpath/DefaultNamespaceContext.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-  
 jar/org/dom4j/dom/DOMDocumentFactory.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-  
 jar/org/dom4j/io/SAXModifyException.java

\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/AbstractProcessingInstruction.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/xpath/XPathPattern.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/CDATA.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/AbstractCharacterData.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/SAXReader.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/rule/Mode.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/FlyweightCDATA.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/DefaultEntity.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/dom/DOMAttribute.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/SAXHelper.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/util/ProxyDocumentFactory.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/bean/BeanAttributeList.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/bean/BeanElement.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/AbstractCDATA.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/DocumentInputSource.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/SAXModifier.java

# 1.191 python-pyudev 0.15-9.el7

## 1.191.1 Available under license :

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Version 2.1, February 1999

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

# 1.192 perl-pathtools 3.40-5.el7

## 1.192.1 Available under license :

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

/\*

-----

ppport.h -- Perl/Pollution/Portability Version 3.20

Automatically created by Devel::PPPort running under perl 5.015005.

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 3.20

=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 automagially add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

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

=head2 --diff=I<program>

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

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

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

=head2 --cplusplus

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

=head2 --quiet

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

=head2 --nodiag

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

=head2 --nohints

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

=head2 --nochanges

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

=head2 --nofilter

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

=head2 --strip

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

increasing their distribution size too much.

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

`=head2 --list-provided`

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

`=head2 --list-unsupported`

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

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

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

Function / Variable	Static Request	Global Request
PL_parser	NEED_PL_parser	NEED_PL_parser_GLOBAL
PL_signals	NEED_PL_signals	NEED_PL_signals_GLOBAL
eval_pv()	NEED_eval_pv	NEED_eval_pv_GLOBAL
grok_bin()	NEED_grok_bin	NEED_grok_bin_GLOBAL
grok_hex()	NEED_grok_hex	NEED_grok_hex_GLOBAL
grok_number()	NEED_grok_number	NEED_grok_number_GLOBAL
grok_numeric_radix()	NEED_grok_numeric_radix	NEED_grok_numeric_radix_GLOBAL
grok_oct()	NEED_grok_oct	NEED_grok_oct_GLOBAL
load_module()	NEED_load_module	NEED_load_module_GLOBAL
my_snprintf()	NEED_my_snprintf	NEED_my_snprintf_GLOBAL
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

<code>newSVpvn_flags()</code>	<code>NEED_newSVpvn_flags</code>	<code>NEED_newSVpvn_flags_GLOBAL</code>
<code>newSVpvn_share()</code>	<code>NEED_newSVpvn_share</code>	<code>NEED_newSVpvn_share_GLOBAL</code>
<code>pv_display()</code>	<code>NEED_pv_display</code>	<code>NEED_pv_display_GLOBAL</code>
<code>pv_escape()</code>	<code>NEED_pv_escape</code>	<code>NEED_pv_escape_GLOBAL</code>
<code>pv_pretty()</code>	<code>NEED_pv_pretty</code>	<code>NEED_pv_pretty_GLOBAL</code>
<code>sv_2pv_flags()</code>	<code>NEED_sv_2pv_flags</code>	<code>NEED_sv_2pv_flags_GLOBAL</code>
<code>sv_2pvbyte()</code>	<code>NEED_sv_2pvbyte</code>	<code>NEED_sv_2pvbyte_GLOBAL</code>
<code>sv_catpvf_mg()</code>	<code>NEED_sv_catpvf_mg</code>	<code>NEED_sv_catpvf_mg_GLOBAL</code>
<code>sv_catpvf_mg_nocontext()</code>	<code>NEED_sv_catpvf_mg_nocontext</code>	<code>NEED_sv_catpvf_mg_nocontext_GLOBAL</code>
<code>sv_pvn_force_flags()</code>	<code>NEED_sv_pvn_force_flags</code>	<code>NEED_sv_pvn_force_flags_GLOBAL</code>
<code>sv_setpvf_mg()</code>	<code>NEED_sv_setpvf_mg</code>	<code>NEED_sv_setpvf_mg_GLOBAL</code>
<code>sv_setpvf_mg_nocontext()</code>	<code>NEED_sv_setpvf_mg_nocontext</code>	<code>NEED_sv_setpvf_mg_nocontext_GLOBAL</code>
<code>vload_module()</code>	<code>NEED_vload_module</code>	<code>NEED_vload_module_GLOBAL</code>
<code>vnewSVpvf()</code>	<code>NEED_vnewSVpvf</code>	<code>NEED_vnewSVpvf_GLOBAL</code>
<code>warn()</code>	<code>NEED_warner</code>	<code>NEED_warner_GLOBAL</code>

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<newSVpv> function, use:

```
perl ppport.h --api-info=newSVpv
```

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::PPP> are available on CPAN before sending a bug report.

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

Please include the following information:



=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

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

=item 4.

A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back

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

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2010, Marcus Holland-Moritz.

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

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

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

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization

BEGIN { eval '\${^RE\_TRIE\_MAXBUF} = -1' if \$] >= 5.009004 && \$] <= 5.009005 }

```

my $VERSION = 3.20;

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 $rce = 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|||
BhkDISABLE||5.014000|
BhkENABLE||5.014000|
BhkENTRY_set||5.014000|
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
CopFILESV|5.006000||p
CopFILE_set|5.006000||p
CopFILE|5.006000||p
CopSTASHPV_set|5.006000||p
CopSTASHPV|5.006000||p
CopSTASH_eq|5.006000||p
CopSTASH_set|5.006000||p
CopSTASH|5.006000||p
CopyD|5.009002||p
Copy|||
CvPADLIST|||
CvSTASH|||
CvWEAKOUTSIDE|||

```

DEFSV\_set|5.010001||p  
DEFSV|5.004050||p  
END\_EXTERN\_C|5.005000||p  
ENTER||  
ERRSV|5.004050||p  
EXTEND||  
EXTERN\_C|5.005000||p  
F0convert|||n  
FREETMPS||  
GIMME\_V|5.004000|n  
GIMME|||n  
GROK\_NUMERIC\_RADIX|5.007002||p  
G\_ARRAY||  
G\_DISCARD||  
G\_EVAL||  
G\_METHOD|5.006001||p  
G\_NOARGS||  
G\_SCALAR||  
G\_VOID|5.004000|  
GetVars||  
GvSVn|5.009003||p  
GvSV||  
Gv\_AMupdate|5.011000|  
Hef\_SVKEY|5.004000|  
HeHASH|5.004000|  
HeKEY|5.004000|  
HeKLEN|5.004000|  
HePV|5.004000|  
HeSVKEY\_force|5.004000|  
HeSVKEY\_set|5.004000|  
HeSVKEY|5.004000|  
HeUTF8|5.010001|  
HeVAL|5.004000|  
HvENAME|5.013007|  
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\_NAN|5.007003||p  
IS\_NUMBER\_NEG|5.007002||p  
IS\_NUMBER\_NOT\_INT|5.007002||p

IVSIZE|5.006000|p  
IVTYPE|5.006000|p  
IVdf|5.006000|p  
LEAVE|||  
LINKLIST||5.013006|  
LVRET|||  
MARK|||  
MULTICALL||5.014000|  
MY\_CXT\_CLONE|5.009002|p  
MY\_CXT\_INIT|5.007003|p  
MY\_CXT|5.007003|p  
MoveD|5.009002|p  
Move|||  
NOOP|5.005000|p  
NUM2PTR|5.006000|p  
NVTYPE|5.006000|p  
NVef|5.006001|p  
NVff|5.006001|p  
NVgf|5.006001|p  
Newxc|5.009003|p  
Newxz|5.009003|p  
Newx|5.009003|p  
Nullav|||  
Nullch|||  
Nullcv|||  
Nullhv|||  
Nullsv|||  
OP\_CLASS||5.013007|  
OP\_DESC||5.007003|  
OP\_NAME||5.007003|  
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\_SV1|||  
PAD\_SV|||

PERLIO\_FUNCS\_CAST|5.009003||p  
PERLIO\_FUNCS\_DECL|5.009003||p  
PERL\_ABS|5.008001||p  
PERL\_BCDVERSION|5.014000||p  
PERL\_GCC\_BRACE\_GROUPS\_FORBIDDEN|5.008001||p  
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  
PERL\_MAGIC\_arylen|5.007002||p  
PERL\_MAGIC\_backref|5.007002||p  
PERL\_MAGIC\_bm|5.007002||p  
PERL\_MAGIC\_collxfrm|5.007002||p  
PERL\_MAGIC\_dbfile|5.007002||p  
PERL\_MAGIC\_dbline|5.007002||p  
PERL\_MAGIC\_defelem|5.007002||p  
PERL\_MAGIC\_envelem|5.007002||p  
PERL\_MAGIC\_env|5.007002||p  
PERL\_MAGIC\_ext|5.007002||p  
PERL\_MAGIC\_fm|5.007002||p  
PERL\_MAGIC\_glob|5.014000||p  
PERL\_MAGIC\_isaelem|5.007002||p  
PERL\_MAGIC\_isa|5.007002||p  
PERL\_MAGIC\_mutex|5.014000||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\_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\_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  
PERL\_PV\_PRETTY\_QUOTE|5.009004||p  
PERL\_PV\_PRETTY\_REGPROP|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||5.014000|  
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\_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|5.014000||p  
PL\_bufptr|5.014000||p  
PL\_compiling|5.004050||p  
PL\_copline|5.014000||p  
PL\_curcop|5.004050||p  
PL\_curstash|5.004050||p  
PL\_debstash|5.004050||p  
PL\_defgv|5.004050||p  
PL\_diehook|5.004050||p  
PL\_dirty|5.004050||p  
PL\_dowarn|||pn  
PL\_errgv|5.004050||p  
PL\_error\_count|5.014000||p  
PL\_expect|5.014000||p  
PL\_hexdigit|5.005000||p  
PL\_hints|5.005000||p  
PL\_in\_my\_stash|5.014000||p  
PL\_in\_my|5.014000||p  
PL\_keyword\_plugin||5.011002|  
PL\_last\_in\_gv|||n  
PL\_laststatval|5.005000||p  
PL\_lex\_state|5.014000||p  
PL\_lex\_stuff|5.014000||p  
PL\_linestr|5.014000||p  
PL\_modglobal||5.005000|n  
PL\_na|5.004050||pn  
PL\_no\_modify|5.006000||p  
PL\_ofsgv|||n  
PL\_opfreehook||5.011000|n  
PL\_parser|5.009005|5.009005|p  
PL\_peekp||5.007003|n  
PL\_perl\_destruct\_level|5.004050||p  
PL\_perldb|5.004050||p  
PL\_ppaddr|5.006000||p  
PL\_rpeekp||5.013005|n  
PL\_rsfilters|5.014000||p  
PL\_rsfp|5.014000||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|5.014000|p  
POP\_MULTICALL||5.014000|  
POPi|||n  
POPi|||n  
POPn|||n  
POPpbytex||5.007001|n  
POPpx||5.005030|n  
POPp|||n  
POPs|||n  
PTR2IV|5.006000|p  
PTR2NV|5.006000|p  
PTR2UV|5.006000|p  
PTR2nat|5.009003|p  
PTR2ul|5.007001|p  
PTRV|5.006000|p  
PUSHMARK|||  
PUSH\_MULTICALL||5.014000|  
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\_ptrcnt||5.007003|  
PerlIO\_setlinebuf||5.007003|  
PerlIO\_stderr||5.007003|  
PerlIO\_stdin||5.007003|  
PerlIO\_stdout||5.007003|  
PerlIO\_tell||5.007003|

PerlIO\_unread|5.007003|  
PerlIO\_write|5.007003|  
Perl\_signbit|5.009005|n  
PoisonFree|5.009004||p  
PoisonNew|5.009004||p  
PoisonWith|5.009004||p  
Poison|5.008000||p  
RETVAl||n  
Renewc||  
Renew||  
SAVECLEARSV||  
SAVECOMPAD||  
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  
STR\_WITH\_LEN|5.009003||p  
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\_IV||  
SVt\_NV||  
SVt\_PVAV||  
SVt\_PVCV||  
SVt\_PVHV||  
SVt\_PVMG||  
SVt\_PV||  
Safefree||  
Slab\_Alloc||  
Slab\_Free||  
Slab\_to\_rw||  
StructCopy||

SvCUR\_set|||  
SvCUR|||  
SvEND|||  
SvGAMAGIC|5.006001|  
SvGETMAGIC|5.004050||p  
SvGROW|||  
SvIOK\_UV|5.006000|  
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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  
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```

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xs_apiversion_bootcheck|||
xs_version_bootcheck|||
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+/, $2]]
  if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,\s*\w+)*)\s*$};

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

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

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

$function = [$1, ""] if m{^DPPP_(my_(\w+))};

$replace = $1 if m{^\s*$rccs\s+Replace:\s+(\d+)\s+$rcces\s*$};
$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+$rcces};
$replace{$1} = $2 if m{^\s*$rccs\s+Replace (\w+) with (\w+)\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{^#\s+defined\((NEED_(\w+)(?:_GLOBAL)?)\)};
}

```

```

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

if (exists $opt{'api-info'}) {
    my $f;
    my $count = 0;
    my $match = $opt{'api-info'} =~ m!^(.*)/$! ? $1 : "\Q$opt{'api-info'}\E\$";
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $f =~ /$match/;
        print "\n=== $f ===\n\n";
        my $info = 0;
        if ($API{$f}{base} || $API{$f}{todo}) {
            my $base = format_version($API{$f}{base} || $API{$f}{todo});
            print "Supported at least starting from perl-$base.\n";
            $info++;
        }
        if ($API{$f}{provided}) {
            my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
            print "Support by $ppport provided back to perl-$todo.\n";
            print "Support needs to be explicitly requested by NEED_$.f.\n" if exists $need{$f};
            print "Depends on: ", join(', ', @{$depends{$f}}), ".\n" if exists $depends{$f};
            print "\n$hints{$f}" if exists $hints{$f};
            print "\nWARNING:\n$warnings{$f}" if exists $warnings{$f};
            $info++;
        }
        print "No portability information available.\n" unless $info;
        $count++;
    }
    $count or print "Found no API matching '$opt{'api-info'}'.";
    print "\n";
    exit 0;
}

```

```

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 $xsc{$_} || /\bQ$ppport\E$/i || !/($srcext)$/i;
push @ { $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
}

```

```

die "No input files given!\n" unless @files;

my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;

for $filename (@files) {
  unless (open IN, "<$filename") {
    warn "Unable to read from $filename: $!\n";
    next;
  }

  info("Scanning $filename ...");

  my $c = do { local $/; <IN> };
  close IN;

  my %file = (orig => $c, changes => 0);

  # Temporarily remove C/XS comments and strings from the code
  my @ccom;

  $c =~ s{
    ( ^$HS*#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
    | ^$HS*#$HS*(?:define|elif|if(?:def?))\b[^\r\n]* )
  | ( ^$HS*\#[^\r\n]*
    | "[^\\]*(?:\\.[^\\])*"
    | '[^\\]*(?:\\.[^\\])*'
    | /(?: \*[^\*]*\*+(?:\^[^$ccs][^*]*\*+)* /|/[^\r\n]* ) )
  }{ defined $2 and push @ccom, $2;
    defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;

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

  my $func;

  for $func (keys %API) {
    my $match = $func;
    $match .= "$revreplace{$func}" if exists $revreplace{$func};
    if ($c =~ /\b(?:Perl_)?($match)\b/) {
      $file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
      $file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
      if (exists $API{$func}{provided}) {
        $file{uses_provided}{$func}++;
      }
    }
  }
}

```

```

if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
    $file{uses}{$func}++;
    my @deps = rec_depend($func);
    if (@deps) {
        $file{uses_deps}{$func} = \@deps;
        for (@deps) {
            $file{uses}{$_} = 0 unless exists $file{uses}{$_};
        }
    }
    for ($func, @deps) {
        $file{needs}{$_} = 'static' if exists $need{$_};
    }
}
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
    if ($c =~ /\b$func\b/) {
        $file{uses_todo}{$func}++;
    }
}
}
}

while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
    if (exists $need{$2}) {
        $file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
    }
    else { warning("Possibly wrong #define $1 in $filename") }
}

for (qw(uses needs uses_todo needed_global needed_static)) {
    for $func (keys %{$file{$_}}) {
        push @{$global{$_}{$func}}, $filename;
    }
}

$file{$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 $file{$_}{needed_global}{$need}, @targets;
        @targets = @t if @t;
        @t = grep /\.xs$/i, @targets;
        @targets = @t if @t;
        my $target = shift @targets;
    }
}

```

```

$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
    $files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}

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

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

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

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

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

for $func (sort keys %{$file{uses_provided}}) {
    if ($file{uses}{$func}) {
        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 'Spport'\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 $cpc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^/!!) {
        $cpc++;
    }
}

```



```

$file{changes} += $c =~ s/$rcs$ix$rcce/$ccs$com[$ix] $cce/;
}
else {
    $c =~ s/$rcs$ix$rcce/$com[$ix]/;
}
}

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

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

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

```

```

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

```

```
close PATCH if $patch_opened;
```

```
exit 0;
```

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

```
sub mydiff
```

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

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

```

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

```

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

```

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

```

```

}

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

print F $diff;
}

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

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

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

        if (open F, "$prog $file $tmp |") {
            while (<F>) {
                s/\Q$tmp\E/$file.patched/;
                $diff .= $_;
            }
            close F;
            unlink $tmp;
            return $diff;
        }

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

    return undef;
}

sub rec_depend
{
    my($func, $seen) = @_;
    return () unless exists $depends{$func};
}

```

```

$seen = {% {$seen|{ }}};
return () if $seen->{$func}++;
my %s;
grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
}

```

```

sub parse_version

```

```

{
my $ver = shift;

if ($ver =~ /^(d+)\.(d+)\.(d+)$/) {
return ($1, $2, $3);
}
elsif ($ver !~ /^(d+)\.[d_]+$/) {
die "cannot parse version '$ver'\n";
}

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

sub format_version

```

```

{
my $ver = shift;

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

```

```

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

```

```

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

```

```

$s /= 10;

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

return $ver;
}

return sprintf "%d.%d.%d", $r, $v, $s;
}

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

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

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

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

my %given_hints;
my %given_warnings;
sub hint
{
    $opt{quiet} and return;
    my $func = shift;
    my $rv = 0;
    if (exists $warnings{$func} && !$given_warnings{$func}++) {
        my $warn = $warnings{$func};
        $warn =~ s/^\!*** !mg;
        print "*** WARNING: $func\n", $warn;
        $rv++;
    }
    if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {

```

```

my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}

```

sub usage

```

{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'T' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([>]+)>/M{$1}$2M{$1}/g;

```

```
print <<ENDUSAGE;
```

Usage: \$usage

See perldoc \$0 for details.

ENDUSAGE

```

exit 2;
}

```

sub strip

```

{
my $self = do { local(@ARGV,$/)=($0); <> };
my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^=\w+/ms;
$copy =~ s/^(?=\S+)/ /gms;
$self =~ s/^\$HS+Do NOT edit.*?(?=\^)/$copy/ms;
$self =~ s/^\$SKIP.*(?:\^__DATA__)/SKIP
if (\@ARGV && \$_[0] eq '--unstrip') {
eval { require Devel::PPPport };
\$_ and die "Cannot require Devel::PPPport, please install.\n";
if (eval \$_[0]::VERSION < $VERSION) {
die "$0 was originally generated with Devel::PPPport $VERSION.\n"
. "Your Devel::PPPport is only version \$_[0]::VERSION.\n"
. "Please install a newer version, or --unstrip will not work.\n";
}
Devel::PPPport::WriteFile(\$_);
exit 0;
}
print <<END;

```

Sorry, but this is a stripped version of \\$\_.

To be able to use its original script and doc functionality,

please try to regenerate this file using:

```
\$^X \$0 --unstrip

END

/ms;
my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
$c =~ s{
  /(?: \*[^\*]*\*+(?:[^\$ccs][^\*]*\*+)* / | /[\r\n]*)
  | ("^\\"*(?:\\.["\])*")
  | '^\\"*(?:\\.["\])*')
  | ($HS+) }{ defined $2 ? '': ($1 || ") }gsex;
$c =~ s!\s+#!mg;
$c =~ s!^$LF!!mg;
$c =~ s!\s*#\s*#!mg;
$c =~ s!\s+!!mg;

open OUT, ">$0" or die "cannot strip $0: $!\n";
print OUT "$pl$c\n";

exit 0;
}
```

```
__DATA__
*/
```

Found in path(s):

```
* /opt/cola/permits/1000849036_1646171516.26/0/perl-PathTools-3.40-5.el7.src.rpm-cosi-expand-archive-1Qw75xNn/PathTools-3.40.tar.gz-cosi-expand-archive-ailvvQyw/PathTools-3.40/ppport.h
```

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

=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.

=head1 NOTES

Test::More is B<explicitly> tested all the way back to perl 5.004.

=head1 BUGS and CAVEATS

=over 4

=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 Making your own ok()

If you are trying to extend Test::More, don't. Use Test::Builder instead.

=item The eq\_\* family has some caveats.

=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 perl-ish.

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 and the perl-qa gang.

=head1 COPYRIGHT

Copyright 2001, 2002 by Michael G Schwern E<lt>schwern@pobox.comE<gt>.

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):

\* /opt/cola/permits/1000849036\_1646171516.26/0/perl-PathTools-3.40-5.el7.src.rpm-cosi-expand-archive-1Qw75xNn/PathTools-3.40.tar.gz-cosi-expand-archive-ailvvQyw/PathTools-3.40/t/lib/Test/More.pm  
No license file was found, but licenses were detected in source scan.

=head1 NAME

Test::Tutorial - A tutorial about writing really basic tests

=head1 DESCRIPTION

I<AHHHHHHH!!!! NOT TESTING! Anything but testing!  
Beat me, whip me, send me to Detroit, but don't make  
me write tests!>

I<\*sob\*>

I<Besides, I don't know how to write the damned things.>

Is this you? Is writing tests right up there with writing  
documentation and having your fingernails pulled out? Did you open up  
a test and read

##### We start with some black magic

and decide that's quite enough for you?

It's ok. That's all gone now. We've done all the black magic for  
you. And here are the tricks...

=head2 Nuts and bolts of testing.

Here's the most basic test program.

```
#!/usr/bin/perl -w
```

```
print "1..1\n";
```

```
print 1 + 1 == 2 ? "ok 1\n" : "not ok 1\n";
```

since 1 + 1 is 2, it prints:

```
1..1  
ok 1
```

What this says is: C<1..1> "I'm going to run one test." [1] C<ok 1> "The first test passed". And that's about all magic there is to testing. Your basic unit of testing is the I<ok>. For each thing you test, an C<ok> is printed. Simple. B<Test::Harness> interprets your test results to determine if you succeeded or failed (more on that later).

Writing all these print statements rapidly gets tedious. Fortunately, there's B<Test::Simple>. It has one function, C<ok()>.

```
#!/usr/bin/perl -w  
  
use Test::Simple tests => 1;  
  
ok( 1 + 1 == 2 );
```

and that does the same thing as the code above. C<ok()> is the backbone of Perl testing, and we'll be using it instead of roll-your-own from here on. If C<ok()> gets a true value, the test passes. False, it fails.

```
#!/usr/bin/perl -w  
  
use Test::Simple tests => 2;  
ok( 1 + 1 == 2 );  
ok( 2 + 2 == 5 );
```

from that comes

```
1..2  
ok 1  
not ok 2  
# Failed test (test.pl at line 5)  
# Looks like you failed 1 tests of 2.
```

C<1..2> "I'm going to run two tests." This number is used to ensure your test program ran all the way through and didn't die or skip some tests. C<ok 1> "The first test passed." C<not ok 2> "The second test failed". Test::Simple helpfully prints out some extra commentary about your tests.

It's not scary. Come, hold my hand. We're going to give an example of testing a module. For our example, we'll be testing a date library, B<Date::ICal>. It's on CPAN, so download a copy and follow along. [2]

=head2 Where to start?

This is the hardest part of testing, where do you start? People often get overwhelmed at the apparent enormity of the task of testing a whole module. Best place to start is at the beginning. Date::ICal is an object-oriented module, and that means you start by making an object. So we test C<new()>.

```
#!/usr/bin/perl -w

use Test::Simple tests => 2;

use Date::ICal;

my $ical = Date::ICal->new;    # create an object
ok( defined $ical );         # check that we got something
ok( $ical->isa('Date::ICal') ); # and it's the right class
```

run that and you should get:

```
1..2
ok 1
ok 2
```

congratulations, you've written your first useful test.

=head2 Names

That output isn't terribly descriptive, is it? When you have two tests you can figure out which one is #2, but what if you have 102?

Each test can be given a little descriptive name as the second argument to C<ok()>.

```
use Test::Simple tests => 2;

ok( defined $ical, 'new() returned something' );
ok( $ical->isa('Date::ICal'), " and it's the right class" );
```

So now you'd see...

1..2

ok 1 - new() returned something

ok 2 - and it's the right class

=head2 Test the manual

Simplest way to build up a decent testing suite is to just test what the manual says it does. [3] Let's pull something out of the L<Date::ICal/SYNOPSIS> and test that all its bits work.

```
#!/usr/bin/perl -w
```

```
use Test::Simple tests => 8;
```

```
use Date::ICal;
```

```
$ical = Date::ICal->new( year => 1964, month => 10, day => 16,  
                        hour => 16, min => 12, sec => 47,  
                        tz => '0530' );
```

```
ok( defined $ical,      'new() returned something' );  
ok( $ical->isa('Date::ICal'), " and it's the right class" );  
ok( $ical->sec  == 47,   ' sec()' );  
ok( $ical->min  == 12,   ' min()' );  
ok( $ical->hour == 16,   ' hour()' );  
ok( $ical->day  == 17,   ' day()' );  
ok( $ical->month == 10,  ' month()' );  
ok( $ical->year == 1964, ' year()' );
```

run that and you get:

1..8

ok 1 - new() returned something

ok 2 - and it's the right class

ok 3 - sec()

ok 4 - min()

ok 5 - hour()

not ok 6 - day()

# Failed test (- at line 16)

ok 7 - month()

ok 8 - year()

# Looks like you failed 1 tests of 8.

Whoops, a failure! [4] Test::Simple helpfully lets us know on what line the failure occurred, but not much else. We were supposed to get 17, but we didn't. What did we get?? Dunno. We'll have to re-run the

test in the debugger or throw in some print statements to find out.

Instead, we'll switch from `B<Test::Simple>` to `B<Test::More>`. `B<Test::More>` does everything `B<Test::Simple>` does, and more! In fact, `Test::More` does things I<exactly> the way `Test::Simple` does. You can literally swap `Test::Simple` out and put `Test::More` in its place. That's just what we're going to do.

`Test::More` does more than `Test::Simple`. The most important difference at this point is it provides more informative ways to say "ok". Although you can write almost any test with a generic `C<ok()>`, it can't tell you what went wrong. Instead, we'll use the `C<is()>` function, which lets us declare that something is supposed to be the same as something else:

```
#!/usr/bin/perl -w

use Test::More tests => 8;

use Date::ICal;

$ical = Date::ICal->new( year => 1964, month => 10, day => 16,
                      hour => 16, min => 12, sec => 47,
                      tz => '0530' );

ok( defined $ical,      'new() returned something' );
ok( $ical->isa('Date::ICal'), " and it's the right class" );
is( $ical->sec,    47,    ' sec()' );
is( $ical->min,   12,    ' min()' );
is( $ical->hour,  16,    ' hour()' );
is( $ical->day,   17,    ' day()' );
is( $ical->month, 10,    ' month()' );
is( $ical->year, 1964,   ' year()' );
```

"Is `C<$ical-E<gt>sec> 47?`" "Is `C<$ical-E<gt>min> 12?`" With `C<is()>` in place, you get some more information

```
1..8
ok 1 - new() returned something
ok 2 - and it's the right class
ok 3 - sec()
ok 4 - min()
ok 5 - hour()
not ok 6 - day()
# Failed test (- at line 16)
# got: '16'
# expected: '17'
ok 7 - month()
```

```
ok 8 - year()
# Looks like you failed 1 tests of 8.
```

letting us know that `C<$ical->day>` returned 16, but we expected 17. A quick check shows that the code is working fine, we made a mistake when writing up the tests. Just change it to:

```
is( $ical->day, 16, ' day()' );
```

and everything works.

So any time you're doing a "this equals that" sort of test, use `C<is()>`. It even works on arrays. The test is always in scalar context, so you can test how many elements are in a list this way. [5]

```
is( @foo, 5, 'foo has 5 elements' );
```

=head2 Sometimes the tests are wrong

Which brings us to a very important lesson. Code has bugs. Tests are code. Ergo, tests have bugs. A failing test could mean a bug in the code, but don't discount the possibility that the test is wrong.

On the flip side, don't be tempted to prematurely declare a test incorrect just because you're having trouble finding the bug. Invalidating a test isn't something to be taken lightly, and don't use it as a cop out to avoid work.

=head2 Testing lots of values

We're going to be wanting to test a lot of dates here, trying to trick the code with lots of different edge cases. Does it work before 1970? After 2038? Before 1904? Do years after 10,000 give it trouble? Does it get leap years right? We could keep repeating the code above, or we could set up a little try/expect loop.

```
use Test::More tests => 32;
use Date::ICal;
```

```
my %ICal_Dates = (
    # An ICal string    And the year, month, date
    #                  hour, minute and second we expect.
    '19971024T120000' => # from the docs.
        [ 1997, 10, 24, 12, 0, 0 ],
    '20390123T232832' => # after the Unix epoch
        [ 2039, 1, 23, 23, 28, 32 ],
```

```

'19671225T000000' => # before the Unix epoch
    [ 1967, 12, 25, 0, 0, 0 ],
'18990505T232323' => # before the MacOS epoch
    [ 1899, 5, 5, 23, 23, 23 ],
);

```

```

while( my($ical_str, $expect) = each %ICal_Dates ) {
    my $ical = Date::ICal->new( ical => $ical_str );

    ok( defined $ical,      "new(ical => '$ical_str')" );
    ok( $ical->isa('Date::ICal'), " and it's the right class" );

    is( $ical->year,  $expect->[0],  ' year()' );
    is( $ical->month, $expect->[1],  ' month()' );
    is( $ical->day,   $expect->[2],  ' day()' );
    is( $ical->hour,  $expect->[3],  ' hour()' );
    is( $ical->min,   $expect->[4],  ' min()' );
    is( $ical->sec,   $expect->[5],  ' sec()' );
}

```

So now we can test bunches of dates by just adding them to C<%ICal\_Dates>. Now that it's less work to test with more dates, you'll be inclined to just throw more in as you think of them.

Only problem is, every time we add to that we have to keep adjusting the C<use Test::More tests => E<gt> ##> line. That can rapidly get annoying. There's two ways to make this work better.

First, we can calculate the plan dynamically using the C<plan()> function.

```

use Test::More;
use Date::ICal;

my %ICal_Dates = (
    ...same as before...
);

# For each key in the hash we're running 8 tests.
plan tests => keys %ICal_Dates * 8;

```

Or to be even more flexible, we use C<no\_plan>. This means we're just running some tests, don't know how many. [6]

```

use Test::More 'no_plan'; # instead of tests => 32

```

now we can just add tests and not have to do all sorts of math to figure out how many we're running.



=head2 Informative names

Take a look at this line here

```
ok( defined $ical,      "new(ical => '$ical_str')" );
```

we've added more detail about what we're testing and the ICal string itself we're trying out to the name. So you get results like:

```
ok 25 - new(ical => '19971024T120000')
ok 26 - and it's the right class
ok 27 - year()
ok 28 - month()
ok 29 - day()
ok 30 - hour()
ok 31 - min()
ok 32 - sec()
```

if something in there fails, you'll know which one it was and that will make tracking down the problem easier. So try to put a bit of debugging information into the test names.

Describe what the tests test, to make debugging a failed test easier for you or for the next person who runs your test.

=head2 Skipping tests

Poking around in the existing Date::ICal tests, I found this in F<t/01sanity.t> [7]

```
#!/usr/bin/perl -w

use Test::More tests => 7;
use Date::ICal;

# Make sure epoch time is being handled sanely.
my $t1 = Date::ICal->new( epoch => 0 );
is( $t1->epoch, 0,      "Epoch time of 0" );

# XXX This will only work on unix systems.
is( $t1->ical, '19700101Z', " epoch to ical" );

is( $t1->year, 1970,    " year()" );
is( $t1->month, 1,     " month()" );
is( $t1->day, 1,      " day()" );
```

```

# like the tests above, but starting with ical instead of epoch
my $t2 = Date::ICal->new( ical => '19700101Z' );
is( $t2->ical, '19700101Z', "Start of epoch in ICal notation" );

is( $t2->epoch, 0,      " and back to ICal" );

```

The beginning of the epoch is different on most non-Unix operating systems [8]. Even though Perl smooths out the differences for the most part, certain ports do it differently. MacPerl is one off the top of my head. [9] We I<know> this will never work on MacOS. So rather than just putting a comment in the test, we can explicitly say it's never going to work and skip the test.

```

use Test::More tests => 7;
use Date::ICal;

# Make sure epoch time is being handled sanely.
my $t1 = Date::ICal->new( epoch => 0 );
is( $t1->epoch, 0,      "Epoch time of 0" );

SKIP: {
    skip('epoch to ICal not working on MacOS', 6)
        if $^O eq 'MacOS';

    is( $t1->ical, '19700101Z', " epoch to ical" );

    is( $t1->year, 1970,      " year()" );
    is( $t1->month, 1,        " month()" );
    is( $t1->day, 1,          " day()" );

    # like the tests above, but starting with ical instead of epoch
    my $t2 = Date::ICal->new( ical => '19700101Z' );
    is( $t2->ical, '19700101Z', "Start of epoch in ICal notation" );

    is( $t2->epoch, 0,      " and back to ICal" );
}

```

A little bit of magic happens here. When running on anything but MacOS, all the tests run normally. But when on MacOS, C<skip()> causes the entire contents of the SKIP block to be jumped over. It's never run. Instead, it prints special output that tells Test::Harness that the tests have been skipped.

```

1..7
ok 1 - Epoch time of 0
ok 2 # skip epoch to ICal not working on MacOS
ok 3 # skip epoch to ICal not working on MacOS

```

```
ok 4 # skip epoch to ICal not working on MacOS
ok 5 # skip epoch to ICal not working on MacOS
ok 6 # skip epoch to ICal not working on MacOS
ok 7 # skip epoch to ICal not working on MacOS
```

This means your tests won't fail on MacOS. This means less emails from MacPerl users telling you about failing tests that you know will never work. You've got to be careful with skip tests. These are for tests which don't work and I<never will>. It is not for skipping genuine bugs (we'll get to that in a moment).

The tests are wholly and completely skipped. [10] This will work.

```
SKIP: {
    skip("I don't wanna die!");

    die, die, die, die, die;
}
```

=head2 Todo tests

Thumbing through the Date::ICal man page, I came across this:

ical

```
$ical_string = $ical->ical;
```

Retrieves, or sets, the date on the object, using any valid ICal date/time string.

"Retrieves or sets". Hmm, didn't see a test for using C<ical()> to set the date in the Date::ICal test suite. So I'll write one.

```
use Test::More tests => 1;
use Date::ICal;

my $ical = Date::ICal->new;
$ical->ical('20201231Z');
is( $ical->ical, '20201231Z', 'Setting via ical()' );
```

run that and I get

```
1..1
not ok 1 - Setting via ical()
# Failed test (- at line 6)
# got: '20010814T233649Z'
# expected: '20201231Z'
```

```
# Looks like you failed 1 tests of 1.
```

Whoops! Looks like it's unimplemented. Let's assume we don't have the time to fix this. [11] Normally, you'd just comment out the test and put a note in a todo list somewhere. Instead, we're going to explicitly state "this test will fail" by wrapping it in a C<TODO> block.

```
use Test::More tests => 1;

TODO: {
    local $TODO = 'ical($ical) not yet implemented';

    my $ical = Date::ICal->new;
    $ical->ical('20201231Z');

    is( $ical->ical, '20201231Z', 'Setting via ical()' );
}
```

Now when you run, it's a little different:

```
1..1
not ok 1 - Setting via ical() # TODO ical($ical) not yet implemented
#     got: '20010822T201551Z'
#     expected: '20201231Z'
```

Test::More doesn't say "Looks like you failed 1 tests of 1". That '# TODO' tells Test::Harness "this is supposed to fail" and it treats a failure as a successful test. So you can write tests even before you've fixed the underlying code.

If a TODO test passes, Test::Harness will report it "UNEXPECTEDLY SUCCEEDED". When that happens, you simply remove the TODO block with C<local \$TODO> and turn it into a real test.

=head2 Testing with taint mode.

Taint mode is a funny thing. It's the globalest of all global features. Once you turn it on, it affects I<all> code in your program and I<all> modules used (and all the modules they use). If a single piece of code isn't taint clean, the whole thing explodes. With that in mind, it's very important to ensure your module works under taint mode.

It's very simple to have your tests run under taint mode. Just throw a C<-T> into the C<#!> line. Test::Harness will read the switches in C<#!> and use them to run your tests.

```
#!/usr/bin/perl -Tw
```

...test normally here...

So when you say C<make test> it will be run with taint mode and warnings on.

=head1 FOOTNOTES

=over 4

=item 1

The first number doesn't really mean anything, but it has to be 1. It's the second number that's important.

=item 2

For those following along at home, I'm using version 1.31. It has some bugs, which is good -- we'll uncover them with our tests.

=item 3

You can actually take this one step further and test the manual itself. Have a look at B<Test::Inline> (formerly B<Pod::Tests>).

=item 4

Yes, there's a mistake in the test suite. What! Me, contrived?

=item 5

We'll get to testing the contents of lists later.

=item 6

But what happens if your test program dies halfway through?! Since we didn't say how many tests we're going to run, how can we know it failed? No problem, Test::More employs some magic to catch that death and turn the test into a failure, even if every test passed up to that point.

=item 7

I cleaned it up a little.

=item 8

Most Operating Systems record time as the number of seconds since a certain date. This date is the beginning of the epoch. Unix's starts at midnight January 1st, 1970 GMT.

=item 9

MacOS's epoch is midnight January 1st, 1904. VMS's is midnight, November 17th, 1858, but vmsperl emulates the Unix epoch so it's not a problem.

=item 10

As long as the code inside the SKIP block at least compiles. Please don't ask how. No, it's not a filter.

=item 11

Do NOT be tempted to use TODO tests as a way to avoid fixing simple bugs!

=back

=head1 AUTHORS

Michael G Schwern E<lt>schwern@pobox.comE<gt> and the perl-qa dancers!

=head1 COPYRIGHT

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=cut

Found in path(s):

\* /opt/cola/permits/1000849036\_1646171516.26/0/perl-PathTools-3.40-5.el7.src.rpm-cosi-expand-archive-1Qw75xNn/PathTools-3.40.tar.gz-cosi-expand-archive-ailvvQyw/PathTools-3.40/t/lib/Test/Tutorial.pod  
No license file was found, but licenses were detected in source scan.

=head1 NAME

File::Spec::Functions - portably perform operations on file names

=head1 SYNOPSIS

```
use File::Spec::Functions;
$x = catfile('a','b');
```

=head1 DESCRIPTION

This module exports convenience functions for all of the class methods provided by File::Spec.

For a reference of available functions, please consult L<File::Spec::Unix>, which contains the entire set, and which is inherited by the modules for other platforms. For further information, please see L<File::Spec::Mac>, L<File::Spec::OS2>, L<File::Spec::Win32>, or L<File::Spec::VMS>.

=head2 Exports

The following functions are exported by default.

- canonpath
- catdir
- catfile
- curdir
- rootdir
- updir
- no\_upwards
- file\_name\_is\_absolute
- path

The following functions are exported only by request.

- devnull
- tmpdir
- splitpath
- splitdir
- catpath
- abs2rel
- rel2abs
- case\_tolerant

All the functions may be imported using the C<:ALL> tag.

=head1 COPYRIGHT

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=head1 SEE ALSO

File::Spec, File::Spec::Unix, File::Spec::Mac, File::Spec::OS2,  
File::Spec::Win32, File::Spec::VMS, ExtUtils::MakeMaker

=cut

Found in path(s):

\* /opt/cola/permits/1000849036\_1646171516.26/0/perl-PathTools-3.40-5.el7.src.rpm-cosi-expand-archive-1Qw75xNn/PathTools-3.40.tar.gz-cosi-expand-archive-ailvvQyw/PathTools-3.40/lib/File/Spec/Functions.pm

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/\* See

\* <http://www.xray.mpe.mpg.de/mailling-lists/perl5-porters/2004-11/msg00979.html>

\* for the details of why the BSD license is compatible with the

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\*/

/\*

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Found in path(s):

\* /opt/cola/permits/1000849036\_1646171516.26/0/perl-PathTools-3.40-5.el7.src.rpm-cosi-expand-archive-1Qw75xNn/PathTools-3.40.tar.gz-cosi-expand-archive-ailvvQyw/PathTools-3.40/Cwd.xs

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\* /opt/cola/permits/1000849036\_1646171516.26/0/perl-PathTools-3.40-5.el7.src.rpm-cosi-expand-archive-1Qw75xNn/perl-PathTools.spec

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 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: PathTools

no\_index:

directory:

- t

- inc  
requires:  
Carp: 0  
File::Basename: 0  
Scalar::Util: 0  
Test: 0  
version: 3.40

Found in path(s):

\* /opt/cola/permits/1000849036\_1646171516.26/0/perl-PathTools-3.40-5.el7.src.rpm-cosi-expand-archive-1Qw75xNn/PathTools-3.40.tar.gz-cosi-expand-archive-ailvvQyw/PathTools-3.40/META.yml

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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
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

Test::Simple, Test::More, Test::Harness

=head1 AUTHORS

Original code by chromatic, maintained by Michael G Schwern  
E<lt>schwern@pobox.comE<gt>

=head1 COPYRIGHT

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See F<http://www.perl.com/perl/misc/Artistic.html>

=cut

Found in path(s):

\* /opt/cola/permits/1000849036\_1646171516.26/0/perl-PathTools-3.40-5.el7.src.rpm-cosi-expand-archive-1Qw75xNn/PathTools-3.40.tar.gz-cosi-expand-archive-ailvvQyw/PathTools-3.40/t/lib/Test/Builder.pm  
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) and 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.

=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

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=cut

Found in path(s):

```
* /opt/cola/permits/1000849036_1646171516.26/0/perl-PathTools-3.40-5.el7.src.rpm-cosi-expand-archive-1Qw75xNn/PathTools-3.40.tar.gz-cosi-expand-archive-ailvvQyw/PathTools-3.40/t/lib/Test/Simple.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);
```

=head1 DESCRIPTION

This module provides functions for determining the pathname of the  
current working directory. It is recommended that `getcwd` (or another  
`*cwd()` function) be used in I<all> code to ensure portability.

By default, it exports the functions `cwd()`, `getcwd()`, `fastcwd()`, and

fastgetcwd() (and, on Win32, getdcwd()) into the caller's namespace.

=head2 getcwd and friends

Each of these functions are called without arguments and return the absolute path of the current working directory.

=over 4

=item getcwd

```
my $cwd = getcwd();
```

Returns the current working directory.

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 getcwd

```
my $cwd = getcwd();  
my $cwd = getcwd('C:');
```

The `getcwd()` 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 `_getcwd()` function.

=back

=head2 `abs_path` and friends

These functions are exported only on request. They each take a single argument and return the absolute pathname for it. If no argument is given they'll use the current working directory.

=over 4

=item `abs_path`

```
my $abs_path = abs_path($file);
```

Uses the same algorithm as `getcwd()`. Symbolic links and relative-path components (".", "..") are resolved to return the canonical pathname, just like `realpath(3)`.

=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`.

=back

=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>

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=head1 SEE ALSO

L<File::chdir>

=cut

Found in path(s):

\* /opt/cola/permits/1000849036\_1646171516.26/0/perl-PathTools-3.40-5.el7.src.rpm-cosi-expand-archive-1Qw75xNn/PathTools-3.40.tar.gz-cosi-expand-archive-ailvvQyw/PathTools-3.40/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

L<[http://h71000.www7.hp.com/doc/731FINAL/4506/4506pro\\_014.html#apps\\_locating\\_naming\\_files](http://h71000.www7.hp.com/doc/731FINAL/4506/4506pro_014.html#apps_locating_naming_files)>.

=cut

Found in path(s):

\* /opt/cola/permits/1000849036\_1646171516.26/0/perl-PathTools-3.40-5.el7.src.rpm-cosi-expand-archive-1Qw75xNn/PathTools-3.40.tar.gz-cosi-expand-archive-ailvvQyw/PathTools-3.40/lib/File/Spec/VMS.pm

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=head1 NAME

File::Spec::OS2 - methods for OS/2 file specs

=head1 SYNOPSIS

require File::Spec::OS2; # Done internally by File::Spec if needed

=head1 DESCRIPTION

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

Amongst the changes made for OS/2 are...

=over 4

=item tmpdir

Modifies the list of places temp directory information is looked for.

`$ENV{TMPDIR}`

`$ENV{TEMP}`

`$ENV{TMP}`

`/tmp`

`/`

=item splitpath

Volumes can be drive letters or UNC sharenames (`\\server\share`).

=back

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=cut

Found in path(s):

\* `/opt/cola/permits/1000849036_1646171516.26/0/perl-PathTools-3.40-5.el7.src.rpm-cosi-expand-archive-1Qw75xNn/PathTools-3.40.tar.gz-cosi-expand-archive-ailvvQyw/PathTools-3.40/lib/File/Spec/OS2.pm`

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=head2 Note For File::Spec::Win32 Maintainers

Novell NetWare inherits its File::Spec behaviour from File::Spec::Win32.

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=head1 SEE ALSO

See `L<File::Spec>` and `L<File::Spec::Unix>`. This package overrides the

implementation of these methods, not the semantics.

=cut

Found in path(s):

\* /opt/cola/permits/1000849036\_1646171516.26/0/perl-PathTools-3.40-5.el7.src.rpm-cosi-expand-archive-1Qw75xNn/PathTools-3.40.tar.gz-cosi-expand-archive-ailvvQyw/PathTools-3.40/lib/File/Spec/Win32.pm  
No license file was found, but licenses were detected in source scan.

=pod

=head1 AUTHOR

o.flebbe@gmx.de

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=head1 SEE ALSO

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=cut

Found in path(s):

\* /opt/cola/permits/1000849036\_1646171516.26/0/perl-PathTools-3.40-5.el7.src.rpm-cosi-expand-archive-1Qw75xNn/PathTools-3.40.tar.gz-cosi-expand-archive-ailvvQyw/PathTools-3.40/lib/File/Spec/Epoc.pm  
No license file was found, but licenses were detected in source scan.

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=head1 AUTHORS

See the authors list in I<File::Spec>. Mac OS support by Paul Schinder <schinder@pobox.com> and Thomas Wegner <wegner\_thomas@yahoo.com>.

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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/cola/permits/1000849036\_1646171516.26/0/perl-PathTools-3.40-5.el7.src.rpm-cosi-expand-archive-1Qw75xNn/PathTools-3.40.tar.gz-cosi-expand-archive-ailvvQyw/PathTools-3.40/lib/File/Spec/Mac.pm  
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Please submit bug reports and patches to perlbug@perl.org.

=head1 SEE ALSO

L<File::Spec>

=cut

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\* /opt/cola/permits/1000849036\_1646171516.26/0/perl-PathTools-3.40-5.el7.src.rpm-cosi-expand-archive-1Qw75xNn/PathTools-3.40.tar.gz-cosi-expand-archive-ailvvQyw/PathTools-3.40/lib/File/Spec/Unix.pm  
No license file was found, but licenses were detected in source scan.

=head1 NAME

File::Spec - portably perform operations on file names

=head1 SYNOPSIS

```
use File::Spec;
```

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

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

```
use File::Spec::Functions;
```

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

## =head1 DESCRIPTION

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

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

```
File::Spec::Unix  
File::Spec::Mac  
File::Spec::OS2  
File::Spec::Win32  
File::Spec::VMS
```

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

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

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

but rather as class methods:

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

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

## =head1 METHODS

=over 2

=item canonpath  
X<canonpath>

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

```
$spath = 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 :-)

```
$spath = 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

```
$spath = 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 file names, strip out those that refer to a parent directory. (Does not strip symlinks, only '!', '..', and equivalents.)

```
@paths = File::Spec->no_upwards( @paths );
```

=item case\_tolerant

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

```
$is_case_tolerant = File::Spec->case_tolerant();
```

=item file\_name\_is\_absolute

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

```
$is_absolute = File::Spec->file_name_is_absolute( $path );
```

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

=item path

X<path>

Takes no argument. Returns the environment variable C<PATH> (or the local



platform's equivalent) as a list.

```
@PATH = File::Spec->path();
```

=item join

```
X<join, path>
```

join is the same as catfile.

=item splitpath

```
X<splitpath> X<split, path>
```

Splits a path in to volume, directory, and filename portions. On systems with no concept of volume, returns "" for volume.

```
( $volume, $directories, $file ) =  
    File::Spec->splitpath( $path );  
( $volume, $directories, $file ) =  
    File::Spec->splitpath( $path, $no_file );
```

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

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

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

=item splitdir

```
X<splitdir> X<split, dir>
```

The opposite of L</catdir>.

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

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

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

=item catpath()

Takes volume, directory and file portions and returns an entire path. Under

Unix, C<\$volume> is ignored, and directory and file are concatenated. A '/' is inserted if need be. On other OSes, C<\$volume> is significant.

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

=item abs2rel

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

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

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

If C<\$base> is not present or "", then L<Cwd::cwd()|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()|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()|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()|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()|Cwd>.

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

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

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

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

Based on code written by Shigio Yamaguchi.

=back

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

=head1 SEE ALSO

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

=head1 AUTHOR

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splitpath(), splitdir(), catpath() and catdir() by Barrie Slaymaker.

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# 1.193 texinfo 5.1-5.el7

## 1.193.1 Available under license :

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Version 3, 29 June 2007

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## 1.200 bouncy-castle 1.66

### 1.200.1 Available under license :

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```
public DomainParameters(BigInteger p, BigInteger g, BigInteger q, BigInteger j,
```

Found in path(s):

```
* /opt/cola/permits/1073667234_1609801741.08/0/bcprov-jdk15to18-1-66-sources-jar/org/bouncycastle/asn1/x9/DomainParameters.java
```

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```
/**
```

```
* Poly1305 message authentication code, designed by D. J. Bernstein.
```

```
* <p>
```

```
* Poly1305 computes a 128-bit (16 bytes) authenticator, using a 128 bit nonce and a 256 bit key
```

```
* consisting of a 128 bit key applied to an underlying cipher, and a 128 bit key (with 106
```

```
* effective key bits) used in the authenticator.
```

```
* <p>
```

```
* The polynomial calculation in this implementation is adapted from the public domain <a
```

```
* href="https://github.com/floodyberry/poly1305-donna">poly1305-donna-unrolled</a> C implementation
```

```
* by Andrew M (@floodyberry).
```

```
* @see Poly1305KeyGenerator
```

```
*/
```

Found in path(s):

\* /opt/cola/permits/1073667234\_1609801741.08/0/bcprov-jdk15to18-1-66-sources-jar/org/bouncycastle/crypto/macs/Poly1305.java

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// now keep space is free to use

Found in path(s):

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/\*\*

\* SPHINCS-256 signer.

\* <p>

\* This implementation is heavily based on the reference implementation in SUPERCOP, the main difference being the digests used  
\* for message hashing and tree construction are now configurable (within limits...) and that the implementation produces  
\* detached signatures.  
\* </p>  
\* <p>  
\* The SPHINCS reference implementation is public domain, as per the statement in the second last paragraph of  
\* section 1 in <https://eprint.iacr.org/2014/795.pdf>  
\* </p>  
\*/

Found in path(s):

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/\*\*

\* Magic value for proprietary OpenSSH private key.

\*\*/

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\* /opt/cola/permits/1073667234\_1609801741.08/0/bcprov-jdk15to18-1-66-sources-jar/org/bouncycastle/crypto/util/OpenSSHPrivateKeyUtil.java  
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\* /opt/cola/permits/1073667234\_1609801741.08/0/bcprov-jdk15to18-1-66-sources-jar/org/bouncycastle/pqc/math/ntru/euclid/test/IntEuclideanTest.java

# 1.201 ant 1.8.4

## 1.201.1 Available under license :

Apache Ant

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The <sync> task is based on code Copyright (c) 2002, Landmark Graphics Corp that has been kindly donated to the Apache Software Foundation.

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## 1.203 yum-utils 1.1.31-54.el7\_8



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## 1.207 jnr-netdb 1.1.2

## 1.208 perl-text-parsewords 3.29-4.el7

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## 1.210 stax-api 1.0

### 1.210.1 Available under license :

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
```

```
<html>
```

```
<body>
```

```
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```
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<p>

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<p>

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<p>

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<p>

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<p>

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<p>

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<ul>

<li>

<p>

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

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<li>

<p>

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</li>

</ul>

<p>

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</p>

<p>

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</p>

<ul>

<li>

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</p>

</li>

</ul>

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</p>

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</p>

<ul>

<li>

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</p>

<p>

signature of Ty Coon, 1 April 1989<br />

Ty Coon, President of Vice

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</ul>

</body>

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# 1.211 perl-time-local 1.2300-2.el7

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```

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at assemblers) written by James Hacker.
```

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

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- 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.
- d) make other distribution arrangements with the Copyright Holder.

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The End

## 1.212 perl-podlators 2.5.1-3.el7

### 1.212.1 Available under license :

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

=head1 NAME

perlpodstyle - Perl POD style guide

=head1 DESCRIPTION

These are general guidelines for how to write POD documentation for Perl scripts and modules, based on general guidelines for writing good UNIX man pages. All of these guidelines are, of course, optional, but following them will make your documentation more consistent with other documentation on the system.

The name of the program being documented is conventionally written in bold (using `BE<lt>E<gt>`) wherever it occurs, as are all program options. Arguments should be written in italics (`IE<lt>E<gt>`). Function names are traditionally written in italics; if you write a function as `function()`, Pod::Man will take care of this for you. Literal code or commands should be in `CE<lt>E<gt>`. References to other man pages should be in the form `C<manpage(section)>` or `C<LE<lt>manpage(section)E<gt>>`, and Pod::Man will automatically format those appropriately. The second form, with `LE<lt>E<gt>`, is used to request that a POD formatter make a link to the man page if possible. As an exception, one normally omits the section when referring to module documentation since it's not clear what section module documentation will be in; use `C<LE<lt>Module::NameE<gt>>` for module references instead.

References to other programs or functions are normally in the form of man

page references so that cross-referencing tools can provide the user with links and the like. It's possible to overdo this, though, so be careful not to clutter your documentation with too much markup. References to other programs that are not given as man page references should be enclosed in `BE<lt>E<gt>`.

The major headers should be set out using a `C<=head1>` directive, and are historically written in the rather startling ALL UPPER CASE format; this is not mandatory, but it's strongly recommended so that sections have consistent naming across different software packages. Minor headers may be included using `C<=head2>`, and are typically in mixed case.

The standard sections of a manual page are:

`=over 4`

`=item NAME`

Mandatory section; should be a comma-separated list of programs or functions documented by this POD page, such as:

`foo, bar - programs to do something`

Manual page indexers are often extremely picky about the format of this section, so don't put anything in it except this line. Every program or function documented by this POD page should be listed, separated by a comma and a space. For a Perl module, just give the module name. A single dash, and only a single dash, should separate the list of programs or functions from the description. Do not use any markup such as `CE<lt>E<gt>` or `BE<lt>E<gt>` anywhere in this line. Functions should not be qualified with `C<(>>` or the like. The description should ideally fit on a single line, even if a man program replaces the dash with a few tabs.

`=item SYNOPSIS`

A short usage summary for programs and functions. This section is mandatory for section 3 pages. For Perl module documentation, it's usually convenient to have the contents of this section be a verbatim block showing some (brief) examples of typical ways the module is used.

`=item DESCRIPTION`

Extended description and discussion of the program or functions, or the body of the documentation for man pages that document something else. If particularly long, it's a good idea to break this up into subsections `C<=head2>` directives like:

`=head2 Normal Usage`



=head2 Advanced Features

=head2 Writing Configuration Files

or whatever is appropriate for your documentation.

For a module, this is generally where the documentation of the interfaces provided by the module goes, usually in the form of a list with an C<=item> for each interface. Depending on how many interfaces there are, you may want to put that documentation in separate METHODS, FUNCTIONS, CLASS METHODS, or INSTANCE METHODS sections instead and save the DESCRIPTION section for an overview.

=item OPTIONS

Detailed description of each of the command-line options taken by the program. This should be separate from the description for the use of parsers like L<Pod::Usage>. This is normally presented as a list, with each option as a separate C<=item>. The specific option string should be enclosed in BE<lt>E<gt>. Any values that the option takes should be enclosed in IE<lt>E<gt>. For example, the section for the option B<--section>=I<manext> would be introduced with:

=item B<--section>=I<manext>

Synonymous options (like both the short and long forms) are separated by a comma and a space on the same C<=item> line, or optionally listed as their own item with a reference to the canonical name. For example, since B<--section> can also be written as B<-s>, the above would be:

=item B<-s> I<manext>, B<--section>=I<manext>

Writing the short option first is recommended because it's easier to read. The long option is long enough to draw the eye to it anyway and the short option can otherwise get lost in visual noise.

=item RETURN VALUE

What the program or function returns, if successful. This section can be omitted for programs whose precise exit codes aren't important, provided they return 0 on success and non-zero on failure as is standard. It should always be present for functions. For modules, it may be useful to summarize return values from the module interface here, or it may be more useful to discuss return values separately in the documentation of each function or method the module provides.

=item ERRORS

Exceptions, error return codes, exit statuses, and errno settings.

Typically used for function or module documentation; program documentation uses `DIAGNOSTICS` instead. The general rule of thumb is that errors printed to `C<STDOUT>` or `C<STDERR>` and intended for the end user are documented in `DIAGNOSTICS` while errors passed internal to the calling program and intended for other programmers are documented in `ERRORS`. When documenting a function that sets `errno`, a full list of the possible `errno` values should be given here.

=item `DIAGNOSTICS`

All possible messages the program can print out and what they mean. You may wish to follow the same documentation style as the Perl documentation; see `perldiag(1)` for more details (and look at the POD source as well).

If applicable, please include details on what the user should do to correct the error; documenting an error as indicating "the input buffer is too small" without telling the user how to increase the size of the input buffer (or at least telling them that it isn't possible) aren't very useful.

=item `EXAMPLES`

Give some example uses of the program or function. Don't skimp; users often find this the most useful part of the documentation. The examples are generally given as verbatim paragraphs.

Don't just present an example without explaining what it does. Adding a short paragraph saying what the example will do can increase the value of the example immensely.

=item `ENVIRONMENT`

Environment variables that the program cares about, normally presented as a list using `C<=over>`, `C<=item>`, and `C<=back>`. For example:

=over 6

=item `HOME`

Used to determine the user's home directory. `F<.foorc>` in this directory is read for configuration details, if it exists.

=back

Since environment variables are normally in all uppercase, no additional special formatting is generally needed; they're glaring enough as it is.

## =item FILES

All files used by the program or function, normally presented as a list, and what it uses them for. File names should be enclosed in FE<lt>E<gt>. It's particularly important to document files that will be potentially modified.

## =item CAVEATS

Things to take special care with, sometimes called WARNINGS.

## =item BUGS

Things that are broken or just don't work quite right.

## =item RESTRICTIONS

Bugs you don't plan to fix. :-)

## =item NOTES

Miscellaneous commentary.

## =item AUTHOR

Who wrote it (use AUTHORS for multiple people). It's a good idea to include your current e-mail address (or some e-mail address to which bug reports should be sent) or some other contact information so that users have a way of contacting you. Remember that program documentation tends to roam the wild for far longer than you expect and pick a contact method that's likely to last.

## =item HISTORY

Programs derived from other sources sometimes have this. Some people keep a modification log here, but that usually gets long and is normally better maintained in a separate file.

## =item COPYRIGHT AND LICENSE

For copyright

Copyright YEAR(s) YOUR NAME(s)

(No, (C) is not needed. No, "all rights reserved" is not needed.)

For licensing the easiest way is to use the same licensing as Perl itself:

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

This makes it easy for people to use your module with Perl. Note that this licensing example is neither an endorsement or a requirement, you are of course free to choose any licensing.

=item SEE ALSO

Other man pages to check out, like man(1), man(7), makewhatis(8), or catman(8). Normally a simple list of man pages separated by commas, or a paragraph giving the name of a reference work. Man page references, if they use the standard C<name(section)> form, don't have to be enclosed in LE<lt>E<gt> (although it's recommended), but other things in this section probably should be when appropriate.

If the package has a mailing list, include a URL or subscription instructions here.

If the package has a web site, include a URL here.

=back

Documentation of object-oriented libraries or modules may want to use CONSTRUCTORS and METHODS sections, or CLASS METHODS and INSTANCE METHODS sections, for detailed documentation of the parts of the library and save the DESCRIPTION section for an overview. Large modules with a function interface may want to use FUNCTIONS for similar reasons. Some people use OVERVIEW to summarize the description if it's quite long.

Section ordering varies, although NAME must always be the first section (you'll break some man page systems otherwise), and NAME, SYNOPSIS, DESCRIPTION, and OPTIONS generally always occur first and in that order if present. In general, SEE ALSO, AUTHOR, and similar material should be left for last. Some systems also move WARNINGS and NOTES to last. The order given above should be reasonable for most purposes.

Some systems use CONFORMING TO to note conformance to relevant standards and MT-LEVEL to note safeness for use in threaded programs or signal handlers. These headings are primarily useful when documenting parts of a C library.

Finally, as a general note, try not to use an excessive amount of markup. As documented here and in L<Pod::Man>, you can safely leave Perl variables, function names, man page references, and the like unadorned by markup and the POD translators will figure it out for you. This makes it much easier to later edit the documentation. Note that many existing

translators will do the wrong thing with e-mail addresses when wrapped in LE<lt>E<gt>, so don't do that.

=head1 SEE ALSO

For additional information that may be more accurate for your specific system, see either L<man(5)> or L<man(7)> depending on your system manual section numbering conventions.

This documentation is maintained as part of the podlators distribution.

The current version is always available from its web site at

<<http://www.eyrie.org/~eagle/software/podlators/>>.

=head1 AUTHOR

Russ Allbery <[rra@stanford.edu](mailto:rra@stanford.edu)>, with large portions of this documentation taken from the documentation of the original B<pod2man> implementation by Larry Wall and Tom Christiansen.

=head1 COPYRIGHT AND LICENSE

Copyright 1999, 2000, 2001, 2004, 2006, 2008, 2010 Russ Allbery

<[rra@stanford.edu](mailto:rra@stanford.edu)>.

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

=cut

Found in path(s):

\* /opt/cola/permits/1000848966\_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-Z1NPhHxb/podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/podlators-2.5.1/pod/perlpodstyle.pod

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License: GPL+ or Artistic

Found in path(s):

\* /opt/cola/permits/1000848966\_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-Z1NPhHxb/perl-podlators.spec

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# under the same terms as Perl itself.

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\* /opt/cola/permits/1000848966\_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-Z1NPhHxb/podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/podlators-2.5.1/lib/Pod/ParseLink.pm

\* /opt/cola/permits/1000848966\_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-

Z1NPhHxb/podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/podlators-2.5.1/t/man-perlio.t  
\* /opt/cola/permits/1000848966\_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-Z1NPhHxb/podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/podlators-2.5.1/t/text-perlio.t  
\* /opt/cola/permits/1000848966\_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-Z1NPhHxb/podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/podlators-2.5.1/t/parselink.t  
\* /opt/cola/permits/1000848966\_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-Z1NPhHxb/podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/podlators-2.5.1/t/pod-parser.t  
\* /opt/cola/permits/1000848966\_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-Z1NPhHxb/podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/podlators-2.5.1/t/basic.t  
\* /opt/cola/permits/1000848966\_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-Z1NPhHxb/podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/podlators-2.5.1/t/pod-spelling.t  
\* /opt/cola/permits/1000848966\_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-Z1NPhHxb/podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/podlators-2.5.1/t/termcap.t  
\* /opt/cola/permits/1000848966\_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-Z1NPhHxb/podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/podlators-2.5.1/lib/Pod/Text/Color.pm  
\* /opt/cola/permits/1000848966\_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-Z1NPhHxb/podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/podlators-2.5.1/lib/Pod/Text.pm  
\* /opt/cola/permits/1000848966\_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-Z1NPhHxb/podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/podlators-2.5.1/t/man.t  
\* /opt/cola/permits/1000848966\_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-Z1NPhHxb/podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/podlators-2.5.1/t/man-utf8.t  
\* /opt/cola/permits/1000848966\_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-Z1NPhHxb/podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/podlators-2.5.1/t/man-options.t  
\* /opt/cola/permits/1000848966\_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-Z1NPhHxb/podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/podlators-2.5.1/t/filehandle.t  
\* /opt/cola/permits/1000848966\_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-Z1NPhHxb/podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/podlators-2.5.1/lib/Pod/Man.pm  
\* /opt/cola/permits/1000848966\_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-Z1NPhHxb/podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/podlators-2.5.1/t/overstrike.t  
\* /opt/cola/permits/1000848966\_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-Z1NPhHxb/podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/podlators-2.5.1/t/text-encoding.t  
\* /opt/cola/permits/1000848966\_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-Z1NPhHxb/podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/podlators-2.5.1/t/text-utf8.t  
\* /opt/cola/permits/1000848966\_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-Z1NPhHxb/podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/podlators-2.5.1/t/man-heading.t  
\* /opt/cola/permits/1000848966\_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-Z1NPhHxb/podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/podlators-2.5.1/t/color.t  
\* /opt/cola/permits/1000848966\_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-Z1NPhHxb/podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/podlators-2.5.1/t/pod.t  
\* /opt/cola/permits/1000848966\_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-Z1NPhHxb/podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/podlators-2.5.1/t/text.t  
\* /opt/cola/permits/1000848966\_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-Z1NPhHxb/podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/podlators-2.5.1/t/text-options.t

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

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

Found in path(s):

\* /opt/cola/permits/1000848966\_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-Z1NPhHxb/podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/podlators-2.5.1/lib/Pod/Text/Overstrike.pm

\* /opt/cola/permits/1000848966\_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-Z1NPhHxb/podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/podlators-2.5.1/lib/Pod/Text/Termcap.pm

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---

abstract: 'Convert POD data to various other formats'

author:

- 'Russ Allbery <rra@stanford.edu>'

build\_requires:

ExtUtils::MakeMaker: 0

configure\_requires:

ExtUtils::MakeMaker: 0

distribution\_type: module

dynamic\_config: 0

generated\_by: 'ExtUtils::MakeMaker version 6.57\_05'

license: perl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: 1.4

name: podlators

no\_index:

directory:

- t

- inc

requires:

Encode: 0

File::Spec: 0.8

Pod::Simple: 3.06

version: 2.5.1

Found in path(s):

\* /opt/cola/permits/1000848966\_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-Z1NPhHxb/podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/podlators-2.5.1/MYMETA.yml

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#!perl

# pod2man -- Convert POD data to formatted \*roff input.

#

# Copyright 1999, 2000, 2001, 2004, 2006, 2008, 2010, 2012, 2013

# Russ Allbery <rra@stanford.edu>

#

# This program is free software; you may redistribute it and/or modify it

# under the same terms as Perl itself.

```

require 5.004;

use Getopt::Long qw(GetOptions);
use Pod::Man ();
use Pod::Usage qw(pod2usage);

use strict;

# Clean up $0 for error reporting.
$0 =~ s%.*%/%%;

# Insert -- into @ARGV before any single dash argument to hide it from
# Getopt::Long; we want to interpret it as meaning stdin.
my $stdin;
@ARGV = map { $_ eq '-' && !$stdin++ ? ('-', $_) : $_ } @ARGV;

# Parse our options, trying to retain backward compatibility with pod2man but
# allowing short forms as well. --lax is currently ignored.
my %options;
Getopt::Long::config ('bundling_override');
GetOptions (\%options, 'center|c=s', 'date|d=s', 'errors=s', 'fixed=s',
           'fixedbold=s', 'fixeditalic=s', 'fixedbolditalic=s', 'help|h',
           'lax|l', 'name|n=s', 'nourls', 'official|o', 'quotes|q=s',
           'release|r:s', 'section|s=s', 'stderr', 'verbose|v', 'utf8|u')
    or exit 1;
pod2usage (0) if $options{help};

# Official sets --center, but don't override things explicitly set.
if ($options{official} && !defined $options{center}) {
    $options{center} = 'Perl Programmers Reference Guide';
}

# Verbose is only our flag, not a Pod::Man flag.
my $verbose = $options{verbose};
delete $options{verbose};

# This isn't a valid Pod::Man option and is only accepted for backward
# compatibility.
delete $options{lax};

# If neither stderr nor errors is set, default to errors = die.
if (!defined $options{stderr} && !defined $options{errors}) {
    $options{errors} = 'die';
}

# Initialize and run the formatter, pulling a pair of input and output off at
# a time. For each file, we check whether the document was completely empty

```



```

# and, if so, will remove the created file and exit with a non-zero exit
# status.
my $parser = Pod::Man->new (%options);
my $status = 0;
my @files;
do {
    @files = splice (@ARGV, 0, 2);
    print " $files[1]\n" if $verbose;
    $parser->parse_from_file (@files);
    if ($parser->{CONTENTLESS}) {
        $status = 1;
        warn "$0: unable to format $files[0]\n";
        if (defined ($files[1]) and $files[1] ne '-') {
            unlink $files[1] unless (-s $files[1]);
        }
    }
} while (@ARGV);
exit $status;

```

\_\_END\_\_

=for stopwords

en em --stderr stderr --utf8 UTF-8 overdo markup MT-LEVEL Allbery Solaris  
URL troff troff-specific formatters uppercased Christiansen --nourls

=head1 NAME

pod2man - Convert POD data to formatted \*roff input

=head1 SYNOPSIS

```

pod2man [B<--center>=I<string>] [B<--date>=I<string>] [B<--errors>=I<style>]
[B<--fixed>=I<font>] [B<--fixedbold>=I<font>] [B<--fixeditalic>=I<font>]
[B<--fixedbolditalic>=I<font>] [B<--name>=I<name>] [B<--nourls>]
[B<--official>] [B<--quotes>=I<quotes>] [B<--release>=I<version>]
[B<--section>=I<manext>] [B<--stderr>] [B<--utf8>] [B<--verbose>]
[I<input> [I<output>] ...]

```

pod2man B<--help>

=head1 DESCRIPTION

B<pod2man> is a front-end for Pod::Man, using it to generate \*roff input from POD source. The resulting \*roff code is suitable for display on a terminal using nroff(1), normally via man(1), or printing using troff(1).

I<input> is the file to read for POD source (the POD can be embedded in code). If I<input> isn't given, it defaults to C<STDIN>. I<output>, if

given, is the file to which to write the formatted output. If `I<output>` isn't given, the formatted output is written to `C<STDOUT>`. Several POD files can be processed in the same `B<pod2man>` invocation (saving module load and compile times) by providing multiple pairs of `I<input>` and `I<output>` files on the command line.

`B<--section>`, `B<--release>`, `B<--center>`, `B<--date>`, and `B<--official>` can be used to set the headers and footers to use; if not given, `Pod::Man` will assume various defaults. See below or `L<Pod::Man>` for details.

`B<pod2man>` assumes that your `*roff` formatters have a fixed-width font named `C<CW>`. If yours is called something else (like `C<CR>`), use `B<--fixed>` to specify it. This generally only matters for `troff` output for printing. Similarly, you can set the fonts used for bold, italic, and bold italic fixed-width output.

Besides the obvious pod conversions, `Pod::Man`, and therefore `pod2man` also takes care of formatting `func()`, `func(n)`, and simple variable references like `$foo` or `@bar` so you don't have to use code escapes for them; complex expressions like `C<$fred{'stuff'}>` will still need to be escaped, though. It also translates dashes that aren't used as hyphens into en dashes, makes long dashes--like this--into proper em dashes, fixes "paired quotes," and takes care of several other `troff`-specific tweaks. See `L<Pod::Man>` for complete information.

=head1 OPTIONS

=over 4

=item `B<-c> I<string>`, `B<--center>=I<string>`

Sets the centered page header to `I<string>`. The default is "User Contributed Perl Documentation", but also see `B<--official>` below.

=item `B<-d> I<string>`, `B<--date>=I<string>`

Set the left-hand footer string to this value. By default, the modification date of the input file will be used, or the current date if input comes from `C<STDIN>`.

=item `B<-errors>=I<style>`

Set the error handling style. `C<die>` says to throw an exception on any POD formatting error. `C<stderr>` says to report errors on standard error, but not to throw an exception. `C<pod>` says to include a POD ERRORS section in the resulting documentation summarizing the errors. `C<none>` ignores POD errors entirely, as much as possible.

The default is C<die>.

=item B<--fixed>=I<font>

The fixed-width font to use for verbatim text and code. Defaults to C<CW>. Some systems may want C<CR> instead. Only matters for troff(1) output.

=item B<--fixedbold>=I<font>

Bold version of the fixed-width font. Defaults to C<CB>. Only matters for troff(1) output.

=item B<--fixeditalic>=I<font>

Italic version of the fixed-width font (actually, something of a misnomer, since most fixed-width fonts only have an oblique version, not an italic version). Defaults to C<CI>. Only matters for troff(1) output.

=item B<--fixedbolditalic>=I<font>

Bold italic (probably actually oblique) version of the fixed-width font. Pod::Man doesn't assume you have this, and defaults to C<CB>. Some systems (such as Solaris) have this font available as C<CX>. Only matters for troff(1) output.

=item B<-h>, B<--help>

Print out usage information.

=item B<-l>, B<--lax>

No longer used. B<pod2man> used to check its input for validity as a manual page, but this should now be done by L<podchecker(1)> instead. Accepted for backward compatibility; this option no longer does anything.

=item B<-n> I<name>, B<--name>=I<name>

Set the name of the manual page to I<name>. Without this option, the manual name is set to the uppercased base name of the file being converted unless the manual section is 3, in which case the path is parsed to see if it is a Perl module path. If it is, a path like C<.../lib/Pod/Man.pm> is converted into a name like C<Pod::Man>. This option, if given, overrides any automatic determination of the name.

Note that this option is probably not useful when converting multiple POD files at once. The convention for Unix man pages for commands is for the man page title to be in all-uppercase even if the command isn't.

=item B<--nourls>

Normally, LZ<>> formatting codes with a URL but anchor text are formatted to show both the anchor text and the URL. In other words:

```
L<foo|http://example.com/>
```

is formatted as:

```
foo <http://example.com/>
```

This flag, if given, suppresses the URL when anchor text is given, so this example would be formatted as just C<foo>. This can produce less cluttered output in cases where the URLs are not particularly important.

=item B<-o>, B<--official>

Set the default header to indicate that this page is part of the standard Perl release, if B<--center> is not also given.

=item B<-q> I<quotes>, B<--quotes>=I<quotes>

Sets the quote marks used to surround CE<lt>> text to I<quotes>. If I<quotes> is a single character, it is used as both the left and right quote; if I<quotes> is two characters, the first character is used as the left quote and the second as the right quoted; and if I<quotes> is four characters, the first two are used as the left quote and the second two as the right quote.

I<quotes> may also be set to the special value C<none>, in which case no quote marks are added around CE<lt>> text (but the font is still changed for troff output).

=item B<-r>, B<--release>

Set the centered footer. By default, this is the version of Perl you run B<pod2man> under. Note that some system an macro sets assume that the centered footer will be a modification date and will prepend something like "Last modified: "; if this is the case, you may want to set B<--release> to the last modified date and B<--date> to the version number.

=item B<-s>, B<--section>

Set the section for the C<.TH> macro. The standard section numbering convention is to use 1 for user commands, 2 for system calls, 3 for functions, 4 for devices, 5 for file formats, 6 for games, 7 for miscellaneous information, and 8 for administrator commands. There is a lot

of variation here, however; some systems (like Solaris) use 4 for file formats, 5 for miscellaneous information, and 7 for devices. Still others use 1m instead of 8, or some mix of both. About the only section numbers that are reliably consistent are 1, 2, and 3.

By default, section 1 will be used unless the file ends in C<.pm>, in which case section 3 will be selected.

=item B<--stderr>

By default, B<pod2man> dies if any errors are detected in the POD input. If B<--stderr> is given and no B<--errors> flag is present, errors are sent to standard error, but B<pod2man> does not abort. This is equivalent to C<--errors=stderr> and is supported for backward compatibility.

=item B<-u>, B<--utf8>

By default, B<pod2man> produces the most conservative possible \*roff output to try to ensure that it will work with as many different \*roff implementations as possible. Many \*roff implementations cannot handle non-ASCII characters, so this means all non-ASCII characters are converted either to a \*roff escape sequence that tries to create a properly accented character (at least for troff output) or to C<X>.

This option says to instead output literal UTF-8 characters. If your \*roff implementation can handle it, this is the best output format to use and avoids corruption of documents containing non-ASCII characters. However, be warned that \*roff source with literal UTF-8 characters is not supported by many implementations and may even result in segfaults and other bad behavior.

Be aware that, when using this option, the input encoding of your POD source must be properly declared unless it is US-ASCII or Latin-1. POD input without an C<=encoding> command will be assumed to be in Latin-1, and if it's actually in UTF-8, the output will be double-encoded. See L<perlpod(1)> for more information on the C<=encoding> command.

=item B<-v>, B<--verbose>

Print out the name of each output file as it is being generated.

=back

=head1 EXIT STATUS

As long as all documents processed result in some output, even if that output includes errata (a C<POD ERRORS> section generated with C<--errors=pod>), B<pod2man> will exit with status 0. If any of the

documents being processed do not result in an output document, `B<pod2man>` will exit with status 1. If there are syntax errors in a POD document being processed and the error handling style is set to the default of `C<die>`, `B<pod2man>` will abort immediately with exit status 255.

## =head1 DIAGNOSTICS

If `B<pod2man>` fails with errors, see `L<Pod::Man>` and `L<Pod::Simple>` for information about what those errors might mean.

## =head1 EXAMPLES

```
pod2man program > program.1
pod2man SomeModule.pm /usr/perl/man/man3/SomeModule.3
pod2man --section=7 note.pod > note.7
```

If you would like to print out a lot of man page continuously, you probably want to set the C and D registers to set contiguous page numbering and even/odd paging, at least on some versions of `man(7)`.

```
troff -man -rC1 -rD1 perl.1 perldata.1 perlsyn.1 ...
```

To get index entries on `C<STDERR>`, turn on the F register, as in:

```
troff -man -rF1 perl.1
```

The indexing merely outputs messages via `C<.tm>` for each major page, section, subsection, item, and any `C<XE<lt>E<gt>>` directives. See `L<Pod::Man>` for more details.

## =head1 BUGS

Lots of this documentation is duplicated from `L<Pod::Man>`.

## =head1 SEE ALSO

`L<Pod::Man>`, `L<Pod::Simple>`, `L<man(1)>`, `L<nroff(1)>`, `L<perlpod(1)>`, `L<podchecker(1)>`, `L<perlpodstyle(1)>`, `L<troff(1)>`, `L<man(7)>`

The man page documenting the an macro set may be `L<man(5)>` instead of `L<man(7)>` on your system.

The current version of this script is always available from its web site at `L<http://www.eyrie.org/~eagle/software/podlators/>`. It is also part of the Perl core distribution as of 5.6.0.

## =head1 AUTHOR

Russ Allbery <rra@stanford.edu>, based I<very> heavily on the original B<pod2man> by Larry Wall and Tom Christiansen.

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=cut

Found in path(s):

\* /opt/cola/permits/1000848966\_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-Z1NPhHxb/podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/podlators-2.5.1/scripts/pod2man  
No license file was found, but licenses were detected in source scan.

#!perl

# pod2text -- Convert POD data to formatted ASCII text.

#

# Copyright 1999, 2000, 2001, 2004, 2006, 2008, 2010, 2012, 2013

# Russ Allbery <rra@stanford.edu>

#

# This program is free software; you may redistribute it and/or modify it

# under the same terms as Perl itself.

#

# The driver script for Pod::Text, Pod::Text::Termcap, and Pod::Text::Color,

# invoked by perldoc -t among other things.

require 5.004;

use Getopt::Long qw(GetOptions);

use Pod::Text ();

use Pod::Usage qw(pod2usage);

use strict;

# Clean up \$0 for error reporting.

\$0 =~ s%.\*%%;

# Take an initial pass through our options, looking for one of the form

# -<number>. We turn that into -w <number> for compatibility with the

# original pod2text script.

for (my \$i = 0; \$i < @ARGV; \$i++) {

last if \$ARGV[\$i] =~ /^--\$/;

if (\$ARGV[\$i] =~ /^-(\d+)/) {

```

    splice (@ARGV, $i++, 1, '-w', $1);
  }
}

# Insert -- into @ARGV before any single dash argument to hide it from
# Getopt::Long; we want to interpret it as meaning stdin (which Pod::Simple
# does correctly).
my $stdin;
@ARGV = map { $_ eq '-' && !$stdin++ ? ('-', $_) : $_ } @ARGV;

# Parse our options. Use the same names as Pod::Text for simplicity, and
# default to sentence boundaries turned off for compatibility.
my %options;
$options{sentence} = 0;
Getopt::Long::config ('bundling');
GetOptions (\%options, 'alt|a', 'code', 'color|c', 'errors=s', 'help|h',
           'indent|i=i', 'loose|l', 'margin|left-margin|m=i', 'nourls',
           'overstrike|o', 'quotes|q=s', 'sentence|s', 'stderr', 'termcap|t',
           'utf8|u', 'width|w=i')
    or exit 1;
pod2usage (1) if $options{help};

# Figure out what formatter we're going to use. -c overrides -t.
my $formatter = 'Pod::Text';
if ($options{color}) {
    $formatter = 'Pod::Text::Color';
    eval { require Term::ANSIColor };
    if ($?) { die "-c (--color) requires Term::ANSIColor be installed\n" }
    require Pod::Text::Color;
} elsif ($options{termcap}) {
    $formatter = 'Pod::Text::Termcap';
    require Pod::Text::Termcap;
} elsif ($options{overstrike}) {
    $formatter = 'Pod::Text::Overstrike';
    require Pod::Text::Overstrike;
}
delete @options{'color', 'termcap', 'overstrike'};

# If neither stderr nor errors is set, default to errors = die.
if (!defined $options{stderr} && !defined $options{errors}) {
    $options{errors} = 'die';
}

# Initialize and run the formatter.
my $parser = $formatter->new (%options);
my $status = 0;
do {
    my ($input, $output) = splice (@ARGV, 0, 2);

```



```

$parser->parse_from_file ($input, $output);
if ($parser->{CONTENTLESS}) {
    $status = 1;
    warn "$0: unable to format $input\n";
    if (defined ($output) and $output ne '-') {
        unlink $output unless (-s $output);
    }
}
} while (@ARGV);
exit $status;

```

\_\_END\_\_

=for stopwords

-aclostu --alt --stderr Allbery --overstrike overstrike --termcap --utf8

UTF-8 subclasses --nourls

=head1 NAME

pod2text - Convert POD data to formatted ASCII text

=head1 SYNOPSIS

```

pod2text [B<-aclostu>] [B<--code>] [B<--errors>=I<style>] [B<-i> I<indent>]
  S<[B<-q> I<quotes>]> [B<--nourls>] [B<--stderr>] S<[B<-w> I<width>]>
  [I<input> [I<output> ...]]

```

pod2text B<-h>

=head1 DESCRIPTION

B<pod2text> is a front-end for Pod::Text and its subclasses. It uses them to generate formatted ASCII text from POD source. It can optionally use either termcap sequences or ANSI color escape sequences to format the text.

I<input> is the file to read for POD source (the POD can be embedded in code). If I<input> isn't given, it defaults to C<STDIN>. I<output>, if given, is the file to which to write the formatted output. If I<output> isn't given, the formatted output is written to C<STDOUT>. Several POD files can be processed in the same B<pod2text> invocation (saving module load and compile times) by providing multiple pairs of I<input> and I<output> files on the command line.

=head1 OPTIONS

=over 4

=item B<-a>, B<--alt>

Use an alternate output format that, among other things, uses a different heading style and marks C<=item> entries with a colon in the left margin.

=item B<--code>

Include any non-POD text from the input file in the output as well. Useful for viewing code documented with POD blocks with the POD rendered and the code left intact.

=item B<-c>, B<--color>

Format the output with ANSI color escape sequences. Using this option requires that Term::ANSIColor be installed on your system.

=item B<-i> I<indent>, B<--indent=>I<indent>

Set the number of spaces to indent regular text, and the default indentation for C<=over> blocks. Defaults to 4 spaces if this option isn't given.

=item B<-errors>=I<style>

Set the error handling style. C<die> says to throw an exception on any POD formatting error. C<stderr> says to report errors on standard error, but not to throw an exception. C<pod> says to include a POD ERRORS section in the resulting documentation summarizing the errors. C<none> ignores POD errors entirely, as much as possible.

The default is C<die>.

=item B<-h>, B<--help>

Print out usage information and exit.

=item B<-l>, B<--loose>

Print a blank line after a C<=head1> heading. Normally, no blank line is printed after C<=head1>, although one is still printed after C<=head2>, because this is the expected formatting for manual pages; if you're formatting arbitrary text documents, using this option is recommended.

=item B<-m> I<width>, B<--left-margin>=I<width>, B<--margin>=I<width>

The width of the left margin in spaces. Defaults to 0. This is the margin for all text, including headings, not the amount by which regular text is indented; for the latter, see B<-i> option.

=item B<--nourls>

Normally, LZ<>> formatting codes with a URL but anchor text are formatted to show both the anchor text and the URL. In other words:

```
L<foo|http://example.com/>
```

is formatted as:

```
foo <http://example.com/>
```

This flag, if given, suppresses the URL when anchor text is given, so this example would be formatted as just C<foo>. This can produce less cluttered output in cases where the URLs are not particularly important.

=item B<-o>, B<--overstrike>

Format the output with overstrike printing. Bold text is rendered as character, backspace, character. Italics and file names are rendered as underscore, backspace, character. Many pagers, such as B<less>, know how to convert this to bold or underlined text.

=item B<-q> I<quotes>, B<--quotes>=I<quotes>

Sets the quote marks used to surround CE<lt>> text to I<quotes>. If I<quotes> is a single character, it is used as both the left and right quote; if I<quotes> is two characters, the first character is used as the left quote and the second as the right quoted; and if I<quotes> is four characters, the first two are used as the left quote and the second two as the right quote.

I<quotes> may also be set to the special value C<none>, in which case no quote marks are added around CE<lt>> text.

=item B<-s>, B<--sentence>

Assume each sentence ends with two spaces and try to preserve that spacing. Without this option, all consecutive whitespace in non-verbatim paragraphs is compressed into a single space.

=item B<--stderr>

By default, B<pod2text> dies if any errors are detected in the POD input. If B<--stderr> is given and no B<--errors> flag is present, errors are sent to standard error, but B<pod2text> does not abort. This is equivalent to C<--errors=stderr> and is supported for backward compatibility.

=item B<-t>, B<--termcap>

Try to determine the width of the screen and the bold and underline sequences for the terminal from `termcap`, and use that information in formatting the output. Output will be wrapped at two columns less than the width of your terminal device. Using this option requires that your system have a `termcap` file somewhere where `Term::Cap` can find it and requires that your system support `termios`. With this option, the output of `B<pod2text>` will contain terminal control sequences for your current terminal type.

=item B<-u>, B<--utf8>

By default, `B<pod2text>` tries to use the same output encoding as its input encoding (to be backward-compatible with older versions). This option says to instead force the output encoding to UTF-8.

Be aware that, when using this option, the input encoding of your POD source must be properly declared unless it is US-ASCII or Latin-1. POD input without an `C<=encoding>` command will be assumed to be in Latin-1, and if it's actually in UTF-8, the output will be double-encoded. See `L<perlpod(1)>` for more information on the `C<=encoding>` command.

=item B<-w>, B<--width=>I<width>, B<->I<width>

The column at which to wrap text on the right-hand side. Defaults to 76, unless `B<-t>` is given, in which case it's two columns less than the width of your terminal device.

=back

=head1 EXIT STATUS

As long as all documents processed result in some output, even if that output includes errata (a `C<POD ERRORS>` section generated with `C<--errors=pod>`), `B<pod2text>` will exit with status 0. If any of the documents being processed do not result in an output document, `B<pod2text>` will exit with status 1. If there are syntax errors in a POD document being processed and the error handling style is set to the default of `C<die>`, `B<pod2text>` will abort immediately with exit status 255.

=head1 DIAGNOSTICS

If `B<pod2text>` fails with errors, see `L<Pod::Text>` and `L<Pod::Simple>` for information about what those errors might mean. Internally, it can also produce the following diagnostics:

=over 4

=item -c (--color) requires `Term::ANSIColor` be installed

(F) B<-c> or B<--color> were given, but Term::ANSIColor could not be loaded.

=item Unknown option: %s

(F) An unknown command line option was given.

=back

In addition, other L<Getopt::Long> error messages may result from invalid command-line options.

=head1 ENVIRONMENT

=over 4

=item COLUMNS

If B<-t> is given, B<pod2text> will take the current width of your screen from this environment variable, if available. It overrides terminal width information in TERMCAP.

=item TERMCAP

If B<-t> is given, B<pod2text> will use the contents of this environment variable if available to determine the correct formatting sequences for your current terminal device.

=back

=head1 SEE ALSO

L<Pod::Text>, L<Pod::Text::Color>, L<Pod::Text::Overstrike>,  
L<Pod::Text::Termcap>, L<Pod::Simple>, L<perlpod(1)>

The current version of this script is always available from its web site at L<<http://www.eyrie.org/~eagle/software/podlators/>>. It is also part of the Perl core distribution as of 5.6.0.

=head1 AUTHOR

Russ Allbery <[rra@stanford.edu](mailto:rra@stanford.edu)>.

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=cut

Found in path(s):

\* /opt/cola/permits/1000848966\_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-Z1NPhHxb/podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/podlators-2.5.1/scripts/pod2text  
No license file was found, but licenses were detected in source scan.

license: perl

Found in path(s):

\* /opt/cola/permits/1000848966\_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-Z1NPhHxb/podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/podlators-2.5.1/META.yml

## 1.213 libxml 2.9.1-6.el7.5

### 1.213.1 Available under license :

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# 1.214 commons-io 2.6

## 1.214.1 Available under license :

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## 1.216 jclouds-terremark 1.0-beta-7

## 1.217 cyrus-sasl 2.1.26 23.el7

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/\* CMU libsasl

\* Tim Martin

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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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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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@ignore

@c Set file name and title for man page.

@setfilename gpl

@settitle GNU General Public License

@c man begin SEEALSO

gfdl(7), fsf-funding(7).

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```
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

## HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.

The Encore Multimax modifications were supplied by

Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.

Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and

Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and

Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and

Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.

David Chase, then at Olivetti Research, suggested several improvements.

Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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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

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

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

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

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

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a) Accompany the work with the complete corresponding 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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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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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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That's all there is to it!  
GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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@c man end

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@c Special handling for inclusion in the install manual.

@ifset gfdlhtml

@ifnothtml

@comment node-name, next, previous, up

@node GNU Free Documentation License, Concept Index, Old, Top

```
@end ifnohtml
@html
<h1 align="center">Installing GCC: GNU Free Documentation License</h1>
@end html
@ifnohtml
@unnumbered GNU Free Documentation License
@end ifnohtml
@end ifset
@c man begin DESCRIPTION
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@c Local Variables:

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

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@c man end

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## 1.219 libnfnetlink 1.0.1 4.e17

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## 1.220 tar 1.26-35.el7

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<http://www.geocities.jp/kosako3/oniguruma/>

<http://www.ruby-lang.org/cgi-bin/cvsweb.cgi/oniguruma/>

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random.c

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A C-program for MT19937, with initialization improved 2002/2/10.  
Coded by Takuji Nishimura and Makoto Matsumoto.  
This is a faster version by taking Shawn Cokus's optimization,  
Matthe Bellew's simplification, Isaku Wada's real version.

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

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base64.c -- routines to encode/decode base64 data

\$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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```

```
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Ty Coon, President of Vice
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## 1.234 ncurses 5.9 14.20130511.el7\_4

### 1.234.1 Available under license :

Upstream source <http://invisible-island.net/ncurses/ncurses-examples.html>

Current ncurses maintainer: Thomas Dickey <[dickey@invisible-island.net](mailto:dickey@invisible-island.net)>

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Files: install-sh

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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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# 1.235 gobject-introspection 1.56.1-1.el7

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Version 2, June 1991

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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

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## 1.236 kmod 20 28.el7

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## 1.240 clojure-contrib 1.2.0

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- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
- web-fragment\_3\_1.xsd
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- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
- web-fragment\_3\_1.xsd
- javaee\_8.xsd
- web-app\_4\_0.xsd
- web-common\_4\_0.xsd
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may be obtained from:

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- jsp\_2\_2.xsd
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- javaee\_5.xsd
- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- web-app\_3\_0.xsd
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## 1.243 asm 5.0.4

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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 `MethodVisitor` to send the resulting inlined  
 \* method code to (use `null` 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 `null`.

\* @param exceptions  
 \* the internal names of the method's exception classes (see  
 \* { @link Type#getInternalName() getInternalName}). May be  
 \* `null`.

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

Found in path(s):

```
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
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jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/FrameNode.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/commons/TableSwitchGenerator.java
```

\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/FieldInsnNode.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/FieldConstantsCollector.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/FieldWriter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/commons/SimpleRemapper.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/Attribute.java  
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\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/commons/AdviceAdapter.java  
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\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/util/ASMifier.java  
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\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/SmallSet.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/signature/SignatureWriter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/commons/TryCatchBlockSorter.java  
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\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/commons/RemappingClassAdapter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/Constant.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/AnnotationVisitor.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/JumpInsnNode.java  
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\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/InnerClassNode.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/Handle.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/InsnNode.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/Analyzer.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/util/TraceClassVisitor.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/MethodInsnNode.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/FieldNode.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/AnnotationWriter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/Interpreter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/LocalVariableNode.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/InsnList.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/Frame.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/commons/Remapper.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/util/Printer.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/AbstractInsnNode.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/Shrinker.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/InsnNode.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/commons/InstructionAdapter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-

jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/ClassVisitor.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/tree/LineNumberNode.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/MethodWriter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/LdcInsnNode.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/commons/LocalVariablesSorter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/ClassReader.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/Edge.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/Opcodes.java

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/\*\*

\* Constructs a new {@link ClassNode}. *Subclasses must not use this*

\* constructor*.* Instead, they must use the {@link #ClassNode(int)}

\* version.

\*

\* @throws IllegalStateException

\* If a subclass calls this constructor.

\*/

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\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/TypeReference.java

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* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/xml/SAXFieldAdapter.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/xml/ASMContentHandler.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/xml/SAXClassAdapter.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/xml/SAXCodeAdapter.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/xml/SAXAdapter.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/xml/SAXAnnotationAdapter.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 first instructions corresponding to the continuous ranges
*     that make the scope of this local variable (inclusive).
* @param end
*     the last instructions corresponding to the continuous ranges
*     that make the scope of this local variable (exclusive). This
*     array must have the same size as the 'start' array.
* @param index
*     the local variable's index in each range. This array must have
*     the same size as the 'start' array.
* @param desc
*     the class descriptor of the annotation class.
*/

```

Found in path(s):

```

* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java

```

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\*/

/\*\*

\* Creates a new {[AnalyzerAdapter](#)}. *Subclasses must not use this  
\* constructor*. 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 {[Opcodes](#)}).  
\* @param name  
\*     the method's name.  
\* @param desc  
\*     the method's descriptor (see {[Type Type](#)}).  
\* @param mv  
\*     the method visitor to which this adapter delegates calls. May  
\*     be `null`.  
\* @throws IllegalStateException  
\*     If a subclass calls this constructor.  
\*/

Found in path(s):

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\* Constructs a new {@link Textifier}. *Subclasses must not use this  
\* constructor*. Instead, they must use the {@link #Textifier(int)}  
\* version.

\*

\* @throws IllegalStateException

\* If a subclass calls this constructor.

\*/

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\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/package.html  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/commons/package.html  
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\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/shrink.properties  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/shrink-signatures.properties  
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\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/shrink-frames.properties  
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*/
/**
 * Creates a new {@link GeneratorAdapter}. Subclasses must not use this
 * constructor. Instead, they must use the
 * {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
 * version.
 *
 * @param mv
 * the method visitor to which this adapter delegates calls.
 * @param access
 * the method's access flags (see {@link Opcodes}).
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see {@link Type Type}).
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

```

Found in path(s):

```

* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/commons/GeneratorAdapter.java

```



# 1.244 libcgrou 0.41 21.e17

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## 1.245 cracklib 2.9.0-11.el7

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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.)

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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.)

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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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.

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

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

That's all there is to it!  
This 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.

-----

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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 didnt 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 isnt the

> place of a

> library to dictact 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:

>> 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...

My apologies for not chiming in in anything resembling a reasonable  
timeframe.

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

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

Cheers,

Nalin

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

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:  
>>> 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...  
>  
> My apologies for not chiming in in anything resembling a reasonable  
> timeframe.  
>  
> I'd also suggest the LGPL, for the reason you noted above. Alternately,  
> GPLv2 with the option of using the library under a later version of the  
> GPL would permit applications which were released under version 3 of the  
> GPL to use the library, too, which would be sufficient for the packages

> which are included in Fedora. FWIW, I'd personally lean toward LGPL.

>

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

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now ?

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

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

>

> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make

> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October 2008, Alec Muffett wrote:

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

> >

> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we

> > make the change now ?

>

> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

-----  
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 191Gxtpr020623  
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500  
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)  
Received: from [82.68.43.14] (helo=[192.168.1.3])  
by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id 1IcOcX-0004Qt-6L  
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000  
Mime-Version: 1.0 (Apple Message framework v752.2)  
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
References: <1190922867.3457.147.camel@localhost.localdomain>  
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>  
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed  
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>  
Content-Transfer-Encoding: 7bit  
From: Alec Muffett <alecm@crypticide.com>  
Subject: Re: cracklib license  
Date: Mon, 1 Oct 2007 17:59:46 +0100  
To: Nathan Neulinger <nneul@neulinger.org>  
X-Mailer: Apple Mail (2.752.2)  
X-Originating-Rutherford-IP: [82.68.43.14]  
Return-Path: alecm@crypticide.com  
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]  
Status: RO  
Content-Length: 585  
Lines: 21

>  
> ----- Forwarded message -----  
> From: Neulinger, Nathan <nneul@umr.edu>  
> Date: Sep 27, 2007 2:58 PM  
> Subject: RE: cracklib license  
> To: alecm@crypto.dircon.co.uk  
>  
> 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.

[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  
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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

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>=20

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> 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:

>> 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...

My apologies for not chiming in in anything resembling a reasonable  
timeframe.

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

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

Cheers,

Nalin

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

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:  
>>> 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  
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>>> 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?  
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> GPL to use the library, too, which would be sufficient for the packages  
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.  
>

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

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now ?

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

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

>

> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make  
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October 2008, Alec Muffett wrote:

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

> >

> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we  
> > make the change now ?

>

> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

-----  
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 191Gxtp020623  
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500  
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)  
Received: from [82.68.43.14] (helo=[192.168.1.3])  
by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id 1IcOcX-0004Qt-6L  
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000  
Mime-Version: 1.0 (Apple Message framework v752.2)  
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
References: <1190922867.3457.147.camel@localhost.localdomain>  
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>  
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed  
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>  
Content-Transfer-Encoding: 7bit  
From: Alec Muffett <alecm@crypticide.com>  
Subject: Re: cracklib license  
Date: Mon, 1 Oct 2007 17:59:46 +0100  
To: Nathan Neulinger <nneul@neulinger.org>  
X-Mailer: Apple Mail (2.752.2)  
X-Originating-Rutherford-IP: [82.68.43.14]  
Return-Path: alecm@crypticide.com  
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]  
Status: RO  
Content-Length: 585  
Lines: 21

>

> ----- Forwarded message -----  
> From: Neulinger, Nathan <nneul@umr.edu>  
> Date: Sep 27, 2007 2:58 PM  
> Subject: RE: cracklib license  
> To: alecm@crypto.dircon.co.uk  
>  
> 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

# 1.246 activemq-kahadb-store 5.15.13

## 1.246.1 Available under license :

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# 1.247 systemd 219-78.el7\_9.2

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## 1.248 axiom-api 1.2.12

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# 1.249 mail 1.4.2

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Upstream-Name: rdma-core

Upstream-Contact: Doug Ledford <dledford@redhat.com>,  
Leon Romanovsky <Leon@kernel.org>

Source: <https://github.com/linux-rdma/rdma-core>

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## 1.253 jssc 2.8.0

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## 1.255 sysstat 10.1.5 19.el7

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## 1.256 jackson-coreutils 1.6

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```

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```
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Found in path(s):

```
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/Target Support Files/Pods/Pods-acknowledgements.plist
```

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

```
// Copyright © 2015 Tangdxi. All rights reserved.
```

Found in path(s):

```
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/BarItemViewController.m
```

```
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/BarItemViewController.h
```

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

```
Pod::Spec.new do |s|
```

```
  s.name      = "DCPathButton"
```

```
  s.version   = "2.1.1"
```

```
  s.summary   = " A beautiful button copy from Path® "
```



```
s.description = <<-DESC
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/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/DCPathButton.podspec
```

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

# Acknowledgements

This application makes use of the following third party libraries:

## DCPathButton

The DCPathButton use the MIT license

Generated by CocoaPods - <http://cocoapods.org>

Found in path(s):

```
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
```

DCPathButton-39be410/Example/Pods/Target Support Files/Pods/Pods-acknowledgements.markdown

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

\*\*DCPathButton\*\* is available under the MIT license. See the LICENSE file for more info.

Found in path(s):

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/README.md

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPathButton/README.md

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

// Copyright (c) 2014 Tangdixi. All rights reserved.

Found in path(s):

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPathButton/DCPathButton/Classes/DCPathItemButton.m

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/ExampleTests/ExampleTests.m

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPathButton/DCPathButton/Classes/DCPathItemButton.h

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/ViewController.m

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/ViewController.h

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/DCPathButton/Classes/DCPathButton.h

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/DCPathButton/Classes/DCPathButton.h

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/main.m

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/DCPathButton/Classes/DCPathButton.m

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/DCPathButton/Classes/DCPathButton.m

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/AppDelegate.m

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/DCPathButton/Classes/DCPathItemButton.h

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/DCPathButton/Classes/DCPathItemButton.h

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPathButton/DCPathButton/Classes/DCPathButton.m

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/DCPathButton/Classes/DCPathItemButton.m

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/AppDelegate.h

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-

DCPathButton-39be410/Example/Pods/DCPathButton/DCPathButton/Classes/DCPathButton.h  
\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-  
DCPathButton-39be410/DCPathButton/Classes/DCPathItemButton.m  
No license file was found, but licenses were detected in source scan.

The MIT License (MIT)

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Found in path(s):

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-  
DCPathButton-39be410/LISENCE

## 1.261 commons-logging 1.1

## 1.262 perl-scalar-list-utils 1.27-248.el7

### 1.262.1 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::PPPport 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 automagially add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

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

=head2 --diff=I<program>

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

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

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

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and

replace them with C style comments for portability reasons.

Using this option instructs F<ppport.h> to leave C++ comments untouched.

=head2 --quiet

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

=head2 --nodiag

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

=head2 --nohints

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

=head2 --nochanges

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

=head2 --nofilter

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

=head2 --strip

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

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

Function / Variable	Static Request	Global Request
PL_parser	NEED_PL_parser	NEED_PL_parser_GLOBAL
PL_signals	NEED_PL_signals	NEED_PL_signals_GLOBAL
eval_pv()	NEED_eval_pv	NEED_eval_pv_GLOBAL
grok_bin()	NEED_grok_bin	NEED_grok_bin_GLOBAL
grok_hex()	NEED_grok_hex	NEED_grok_hex_GLOBAL
grok_number()	NEED_grok_number	NEED_grok_number_GLOBAL
grok_numeric_radix()	NEED_grok_numeric_radix	NEED_grok_numeric_radix_GLOBAL
grok_oct()	NEED_grok_oct	NEED_grok_oct_GLOBAL
load_module()	NEED_load_module	NEED_load_module_GLOBAL
my_snprintf()	NEED_my_snprintf	NEED_my_snprintf_GLOBAL
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
newSVpv_flags()	NEED_newSVpv_flags	NEED_newSVpv_flags_GLOBAL
newSVpv_share()	NEED_newSVpv_share	NEED_newSVpv_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_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
warn()	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<newSVpv<pv>> function, use:

```
perl ppport.h --api-info=newSVpv
```

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::PPP<Port>> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPP<Port>> 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::PPort> 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::PPort>.

=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;
    $opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
}
else {
    $opt{'compat-version'} = 5;
}

my %API = map { /^(w+)(([!]*))(([\^]*))(\w*)$/
    ? ( $1 => {
        ($2          ? ( base   => $2 ) : ()),
        ($3          ? ( todo   => $3 ) : ()),
    }

```

```

(index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
(index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
(index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ()),
} )
: die "invalid spec: $_" } qw(
AvFILLp|5.004050|p
AvFILL|||
CLASS|||n
CPERLscope|5.005000|p
CX_CURPAD_SAVE|||
CX_CURPAD_SV|||
CopFILEAV|5.006000|p
CopFILEGV_set|5.006000|p
CopFILEGV|5.006000|p
CopFILESV|5.006000|p
CopFILE_set|5.006000|p
CopFILE|5.006000|p
CopSTASHPV_set|5.006000|p
CopSTASHPV|5.006000|p
CopSTASH_eq|5.006000|p
CopSTASH_set|5.006000|p
CopSTASH|5.006000|p
CopyD|5.009002|p
Copy|||
CvPADLIST|||
CvSTASH|||
CvWEAKOUTSIDE|||
DEFSV_set|5.010001|p
DEFSV|5.004050|p
END_EXTERN_C|5.005000|p
ENTER|||
ERRSV|5.004050|p
EXTEND|||
EXTERN_C|5.005000|p
F0convert|||n
FREEMPS|||
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|  
HEf\_SVKEY|5.004000|  
HeHASH|5.004000|  
HeKEY|5.004000|  
HeKLEN|5.004000|  
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yylex|||
yyparse|||
yywarn|||
);

if (exists $opt{ 'list-unsupported' }) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};
        print "$f ", '!x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
    }
    exit 0;
}

# Scan for possible replacement candidates

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

sub find_api
{
    my $code = shift;
    $code =~ s{
        / (? : \*[^\*]*\*+(?:[^\$ccs][^\*]*\*+)* / | /[\^r\n]*
        | "[^\"]*"(?:\\.["\\"])*"
        | '[^']*'(?:\\.["\\"])*' }{ } egsx;
    grep { exists $API{$_} } $code =~ /(\w+)/mg;
}

```

```

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

$hint = [$1, [split /,?\s+/, $2]]
  if m{^\s*$rcs\s+(Hint|Warning):\s+(\w+(?:,\s+\w+)*)\s*$};

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

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

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

$function = [$1, ""] if m{^DPPP_\(my_(\w+)\)};

$replace = $1 if m{^\s*$rcs\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+).*\s*\s*Replace\s+\s*\s*$};
$replace{$1} = $2 if m{^\s*\s*\s*\s*Replace\s+(\w+) with\s+(\w+)\s*\s*\s*$};

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

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

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

if (exists $opt{'api-info'}) {
    my $f;
    my $count = 0;
    my $match = $opt{'api-info'} =~ m!^(.*)/! ? $1 : "\Q$opt{'api-info'}\E\$";
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $f =~ /$match/;
        print "\n=== $f ===\n\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\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\n";
            print "Support needs to be explicitly requested by NEED_$_f.\n\n" if exists $need{$f};
            print "Depends on: ", join(', ', @{$depends{$f}}), ".\n\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\n" unless $info;
    $count++;
}
}
$count or print "Found no API matching '$opt{'api-info'}'.";
print "\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) {
        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 || $opt{filter}) {
  my(@in, @out);
  my %xsc = map { /(.*)\.xs$/ ? ("$.c" => 1, "$.cc" => 1) : () } @files;
  for (@files) {
    my $out = exists $xsc{$_} || ^\b\Q$ppport\E$/i || !/($srcext)$/i;
    push @ { $out ? \@out : \@in }, $_;
  }
  if (@ARGV && @out) {
    warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
  }
  @files = @in;
}

```

```
die "No input files given!\n" unless @files;
```

```

my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;

```

```

for $filename (@files) {
  unless (open IN, "<$filename") {
    warn "Unable to read from $filename: $!\n";
    next;
  }

```

```
info("Scanning $filename ...");
```

```

my $c = do { local $/; <IN> };
close IN;

```

```
my %file = (orig => $c, changes => 0);
```

```

# Temporarily remove C/XS comments and strings from the code
my @ccom;

```

```

$c =~ s{
  ( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
  | ^$HS*\#$HS*(?:define|elif|if(?:def?))\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
  | "[^"\\]*(?:\\.[^"\\])*"
  | '[^"\\]*(?:\\.[^"\\])*'
  | /(?: \*[^\*]*\*+(?:\^[^$ccs][^*]*\*+)* /|/[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
  defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;

```

```
$file{ccom} = \@ccom;
```

```

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

my $func;

for $func (keys %API) {
    my $match = $func;
    $match .= "|$revreplace{$func}" if exists $revreplace{$func};
    if ($c =~ /\b(?:Perl_)?($match)\b/) {
        $file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
        $file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
        if (exists $API{$func}{provided}) {
            $file{uses_provided}{$func}++;
            if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
                $file{uses}{$func}++;
                my @deps = rec_depend($func);
                if (@deps) {
                    $file{uses_deps}{$func} = \@deps;
                    for (@deps) {
                        $file{uses}{$_} = 0 unless exists $file{uses}{$_};
                    }
                }
                for ($func, @deps) {
                    $file{needs}{$_} = 'static' if exists $need{$_};
                }
            }
        }
        if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
            if ($c =~ /\b$func\b/) {
                $file{uses_todo}{$func}++;
            }
        }
    }
}

while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
    if (exists $need{$2}) {
        $file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
    }
    else { warning("Possibly wrong #define $1 in $filename") }
}

for (qw(uses needs uses_todo needed_global needed_static)) {
    for $func (keys %{ $file{$_} }) {
        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*)[\^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");
        }
    }
    $warnings += hint($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";
        }
    }
}

```

```

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 = "";
    $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 $cpc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^/!!) {
        $cpc++;
        $file{changes} += $c =~ s/$rcs$ix$rcce/$ccs$ccom[$ix] $cce/;
    }
    else {
        $c =~ s/$rcs$ix$rcce/$ccom[$ix]/;
    }
}

```

```

if ($cpc) {
    my $s = $cpc != 1 ? 's' : '';
    warning("Uses $cpc C++ style comment$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 !${$_}++, 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/^\s+ /mg;
        print " --- hint for $func ---\n", $hint;
    }
    $rv;
}

sub usage
{
    my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*(.*)\s*^=/ms;
    my %M = ( 'T' => '*' );
    $usage =~ s/^\s*perl\s+\S+/$^X $0/;
    $usage =~ s/([A-Z])<([^>]+)>/M{$1}$2M{$1}/g;

    print <<ENDUSAGE;

Usage: $usage

See perldoc $0 for details.

ENDUSAGE

    exit 2;
}

sub strip
{
    my $self = do { local(@ARGV,$/)=($0); <> };
    my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*(.*)^=\w+/ms;
    $copy =~ s/^(?=\S+)/ /gms;
    $self =~ s/^\$HS+Do NOT edit.*?(?=-)/$copy/ms;
    $self =~ s/^\$SKIP.*(?:=__DATA__)/SKIP
    if (\@ARGV && $ARGV[0] eq '--unstrip') {
        eval { require Devel::PPPport };
        \@ and die "Cannot require Devel::PPPport, please install.\n";
    }
}

```

```

if (eval \Devel::PPPport::VERSION < $VERSION) {
    die "$0 was originally generated with Devel::PPPport $VERSION.\n"
        . "Your Devel::PPPport is only version \Devel::PPPport::VERSION.\n"
        . "Please install a newer version, or --unstrip will not work.\n";
}
Devel::PPPport::WriteFile(\$0);
exit 0;
}
print <<END;

```

Sorry, but this is a stripped version of \\$0.

To be able to use its original script and doc functionality,  
please try to regenerate this file using:

```
\$^X \$0 --unstrip
```

```

END
/ms;
my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
$c =~ s{
    /(?: \*[^\*]*\*+(?:[^\$ccs][^\*]*\*+)* /|/^\r\n)*
    | ("^\\"*(?:\\.["^\\""]*)*"
    | '[^\']*?(?:\\.['^\\']*)*' )
    | ($HS+) }{ defined $2 ? '': ($1 || ") }gsex;
$c =~ s!\s+!!mg;
$c =~ s!^\$LF!!mg;
$c =~ s!\s*#\s*#!mg;
$c =~ s!\s+!!mg;

open OUT, ">$0" or die "cannot strip $0: $!\n";
print OUT "$pl$c\n";

exit 0;
}

```

```
__DATA__
*/
```

Found in path(s):

```
* /opt/cola/permits/1000848938_1646171587.35/0/perl-Scalar-List-Utills-1.27-248.el7.src.rpm-cosi-expand-archive-
CaOWMkPy/Scalar-List-Utills-1.27.tar.gz-cosi-expand-archive-uUutpmjL/Scalar-List-Utills-1.27/ppport.h
```

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.

=head1 NAME

List::Util - A selection of general-utility list subroutines

=head1 SYNOPSIS

```
use List::Util qw(first max maxstr min minstr reduce shuffle sum);
```

=head1 DESCRIPTION

C<List::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 so small such that being individual extensions would be wasteful.

By default C<List::Util> does not export any subroutines. The subroutines defined are

=over 4

=item first BLOCK LIST

Similar to C<grep> in that it evaluates BLOCK setting C<\$\_> to each element of LIST in turn. C<first> returns the first element where the result from BLOCK is a true value. If BLOCK never returns true or LIST was empty then C<undef> is returned.

```
$foo = first { defined($_) } @list # first defined value in @list
$foo = first { $_ > $value } @list # first value in @list which
                                # is greater than $value
```

This function could be implemented using C<reduce> like this

```
$foo = reduce { defined($a) ? $a : wanted($b) ? $b : undef } undef, @list
```

for example wanted() could be defined() which would return the first defined value in @list

=item max LIST

Returns the entry in the list with the highest numerical value. If the list is empty then C<undef> is returned.

```
$foo = max 1..10          # 10
$foo = max 3,9,12        # 12
$foo = max @bar, @baz    # whatever
```

This function could be implemented using C<reduce> like this

```
$foo = reduce { $a > $b ? $a : $b } 1..10
```

=item maxstr LIST

Similar to C<max>, but treats all the entries in the list as strings and returns the highest string as defined by the C<gt> operator. If the list is empty then C<undef> is returned.

```
$foo = maxstr 'A'..'Z'      # 'Z'  
$foo = maxstr "hello","world" # "world"  
$foo = maxstr @bar, @baz    # whatever
```

This function could be implemented using C<reduce> like this

```
$foo = reduce { $a gt $b ? $a : $b } 'A'..'Z'
```

=item min LIST

Similar to C<max> but returns the entry in the list with the lowest numerical value. If the list is empty then C<undef> is returned.

```
$foo = min 1..10          # 1  
$foo = min 3,9,12        # 3  
$foo = min @bar, @baz    # whatever
```

This function could be implemented using C<reduce> like this

```
$foo = reduce { $a < $b ? $a : $b } 1..10
```

=item minstr LIST

Similar to C<min>, but treats all the entries in the list as strings and returns the lowest string as defined by the C<lt> operator. If the list is empty then C<undef> is returned.

```
$foo = minstr 'A'..'Z'    # 'A'  
$foo = minstr "hello","world" # "hello"  
$foo = minstr @bar, @baz  # whatever
```

This function could be implemented using C<reduce> like this

```
$foo = reduce { $a lt $b ? $a : $b } 'A'..'Z'
```

=item reduce BLOCK LIST

Reduces LIST by calling BLOCK, in a scalar context, multiple times, setting C<\$a> and C<\$b> each time. The first call will be with C<\$a> and C<\$b> set to the first two elements of the list, subsequent



calls will be done by setting C<\$a> to the result of the previous call and C<\$b> to the next element in the list.

Returns the result of the last call to BLOCK. If LIST is empty then C<undef> is returned. If LIST only contains one element then that element is returned and BLOCK is not executed.

```
$foo = reduce { $a < $b ? $a : $b } 1..10    # min
$foo = reduce { $a lt $b ? $a : $b } 'aa'..'zz' # minstr
$foo = reduce { $a + $b } 1 .. 10          # sum
$foo = reduce { $a . $b } @bar             # concat
```

If your algorithm requires that C<reduce> produce an identity value, then make sure that you always pass that identity value as the first argument to prevent C<undef> being returned

```
$foo = reduce { $a + $b } 0, @values;      # sum with 0 identity value
```

```
=item shuffle LIST
```

Returns the elements of LIST in a random order

```
@cards = shuffle 0..51    # 0..51 in a random order
```

```
=item sum LIST
```

Returns the sum of all the elements in LIST. If LIST is empty then C<undef> is returned.

```
$foo = sum 1..10          # 55
$foo = sum 3,9,12        # 24
$foo = sum @bar, @baz    # whatever
```

This function could be implemented using C<reduce> like this

```
$foo = reduce { $a + $b } 1..10
```

If your algorithm requires that C<sum> produce an identity of 0, then make sure that you always pass C<0> as the first argument to prevent C<undef> being returned

```
$foo = sum 0, @values;
```

```
=item sum0 LIST
```

Similar to C<sum>, except this returns 0 when given an empty list, rather than C<undef>.

=back

=head1 KNOWN BUGS

With perl versions prior to 5.005 there are some cases where reduce will return an incorrect result. This will show up as test 7 of reduce.t failing.

=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

# One argument is true

```
sub any { $_ && return 1 for @_ ; 0 }
```

# All arguments are true

```
sub all { $_ || return 0 for @_ ; 1 }
```

# All arguments are false

```
sub none { $_ && return 0 for @_ ; 1 }
```

# One argument is false

```
sub notall { $_ || return 1 for @_ ; 0 }
```

# 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>

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=cut

Found in path(s):

```
* /opt/cola/permits/1000848938_1646171587.35/0/perl-Scalar-List-Utils-1.27-248.el7.src.rpm-cosi-expand-archive-
CaOWMkPy/Scalar-List-Utils-1.27.tar.gz-cosi-expand-archive-uUutpmjL/Scalar-List-Utils-1.27/lib/List/Util.pm
No license file was found, but licenses were detected in source scan.
```

```
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```

```
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```

```
* modify it under the same terms as Perl itself.
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1000848938_1646171587.35/0/perl-Scalar-List-Utils-1.27-248.el7.src.rpm-cosi-expand-archive-
CaOWMkPy/Scalar-List-Utils-1.27.tar.gz-cosi-expand-archive-uUutpmjL/Scalar-List-Utils-1.27/ListUtil.xs
No license file was found, but licenses were detected in source scan.
```

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```

```
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```

```
# modify it under the same terms as Perl itself.
```

```
=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 so small such that being individual extensions would be wasteful.

By default C<Scalar::Util> does not export any subroutines. The subroutines defined are

```
=over 4
```

```
=item blessed EXPR
```

If EXPR evaluates to 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"
```

=item dualvar NUM, STRING

Returns a scalar that has the value NUM in a numeric context and the value STRING in a string context.

```
$foo = dualvar 10, "Hello";
```

```
$num = $foo + 2;              # 12
```

```
$str = $foo . " world";      # Hello world
```

=item isdual EXPR

If EXPR is a scalar that is a dualvar, 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 dual-valued variable, it is actually implemented using a tied scalar:

```
${!} = 1;
```

```
print("${!}\n");             # "Operation not permitted"
```

```
isdual(${!});                # false
```

You can capture its numeric and string content using:

```
$err = dualvar ${!}, ${!};
```

```
isdual($err);                # true
```

=item isvstring EXPR

If EXPR is a scalar which was coded as a vstring the result is true.

```
$vs = v49.46.48;
$fmt = isvstring($vs) ? "%vd" : "%s"; #true
printf($fmt,$vs);
```

=item looks\_like\_number EXPR

Returns true if perl thinks EXPR is a number. See L<perlapi/looks\_like\_number>.

=item openhandle FH

Returns FH if FH may be used as a filehandle and is open, or FH 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
```

=item readonly SCALAR

Returns true if SCALAR is readonly.

```
sub foo { readonly($_[0]) }

$readonly = foo($bar);        # false
$readonly = foo(0);           # true
```

=item refaddr EXPR

If EXPR evaluates to a reference the internal memory address of the referenced value is returned. 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
```

=item reftype EXPR

If EXPR evaluates to a reference the type of the variable referenced is returned. Otherwise C<undef> is returned.

```
$type = reftype "string";     # undef
$type = reftype $var;        # SCALAR
$type = reftype [];          # ARRAY
```

```
$obj = bless {}, "Foo";
$type = reftype $obj;      # HASH
```

=item set\_prototype CODEREF, PROTOTYPE

Sets the prototype of the given function, or deletes it if PROTOTYPE is undef. Returns the CODEREF.

```
set_prototype \&foo, '$$';
```

=item tainted EXPR

Return true if the result of EXPR is tainted

```
$taint = tainted("constant");    # false
$taint = tainted($ENV{PWD});     # true if running under -T
```

=item weaken REF

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, REF will be set to undef.

This is useful for keeping copies of references, but you don't want to prevent the object being DESTROY-ed at its usual time.

```
{
  my $var;
  $ref = \ $var;
  weaken($ref);      # Make $ref a weak reference
}
# $ref is now undef
```

Note that if you take a copy of a scalar with a weakened reference, the copy will be a strong reference.

```
my $var;
my $foo = \ $var;
weaken($foo);      # Make $foo a weak reference
my $bar = $foo;    # $bar is now a strong reference
```

This may be less obvious in other situations, such as `C<grep()>`, for instance when grepping through a list of weakened references to objects that may have been destroyed already:

```
@object = grep { defined } @object;
```

This will indeed remove all references to destroyed objects, but the remaining references to objects will be strong, causing the remaining objects to never be destroyed because there is now always a strong reference to them in the @object array.

=item isweak EXPR

If EXPR is a scalar which is a weak reference the result is true.

```
$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
```

=back

=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 C<isweak> or C<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 C<isvstring> you will need to use a newer release of perl.

=item C<NAME> is only available with the XS version of Scalar::Util

C<Scalar::Util> contains both perl and C implementations of many of its functions so that those without access to a C compiler may still use it. However some of the functions are only available when a C compiler was available to compile the XS version of the extension.

At present that list is: weaken, isweak, dualvar, isvstring, set\_prototype

=back

=head1 KNOWN BUGS

There is a bug in perl5.6.0 with UV's that are  $\geq 1 << 31$ . This will show up as tests 8 and 9 of dualvar.t failing

=head1 SEE ALSO

L<List::Util>

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Except weaken and isweak which are

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=cut

Found in path(s):

\* /opt/cola/permits/1000848938\_1646171587.35/0/perl-Scalar-List-Utills-1.27-248.el7.src.rpm-cosi-expand-archive-CaOWMkPy/Scalar-List-Utills-1.27.tar.gz-cosi-expand-archive-uUutpmjL/Scalar-List-Utills-1.27/lib/Scalar/Util.pm  
No license file was found, but licenses were detected in source scan.

This distribution is a replacement for the builtin distribution.

This package contains a selection of subroutines that people have expressed would be nice to have in the perl core, but the usage would not really be high enough to warrant the use of a keyword, and the size so small such that being individual extensions would be wasteful.

After unpacking the distribution, to install this module type

```
perl Makefile.PL
make
make test
make install
```

## KNOWN BUGS

There is a bug in perl5.6.0 with UV's that are  $\geq 1 << 31$ . This will show up as tests 8 and 9 of dualvar.t failing

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\* /opt/cola/permits/1000848938\_1646171587.35/0/perl-Scalar-List-Utills-1.27-248.el7.src.rpm-cosi-expand-archive-CaOWMkPy/Scalar-List-Utills-1.27.tar.gz-cosi-expand-archive-uUtmpjL/Scalar-List-Utills-1.27/README

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

Name: perl-Scalar-List-Utills  
Version: 1.27  
Release: 248%{?dist}  
Summary: A selection of general-utility scalar and list subroutines  
License: GPL+ or Artistic  
Group: Development/Libraries  
URL: <http://search.cpan.org/dist/Scalar-List-Utills/>  
Source0: <http://search.cpan.org/CPAN/authors/id/P/PE/PEVANS/Scalar-List-Utills-%{version}.tar.gz>  
BuildRequires: perl  
BuildRequires: perl(base)  
BuildRequires: perl(Carp)  
BuildRequires: perl(Config)  
BuildRequires: perl(constant)  
BuildRequires: perl(Exporter)  
BuildRequires: perl(ExtUtils::MakeMaker)  
BuildRequires: perl(File::Spec)  
BuildRequires: perl(IO::File)  
BuildRequires: perl(IO::Handle)  
BuildRequires: perl(Math::BigInt)  
BuildRequires: perl(overload)  
BuildRequires: perl(strict)  
BuildRequires: perl(Symbol)  
BuildRequires: perl(Test::More)  
BuildRequires: perl(threads)  
BuildRequires: perl(threads::shared)  
BuildRequires: perl(Tie::Handle)  
BuildRequires: perl(Tie::Scalar)  
BuildRequires: perl(Tie::StdScalar)  
BuildRequires: perl(vars)  
BuildRequires: perl(warnings)  
BuildRequires: perl(XSLoader)  
Requires: perl(:MODULE\_COMPAT\_\$(eval "`{\_\_perl} -V:version`"; echo \$version))  
Requires: perl(Carp)

%{?perl\_default\_filter}

%description

This package contains a selection of subroutines that people have expressed would be nice to have in the perl core, but the usage would not really be high enough to warrant the use of a keyword, and the size so small such

that being individual extensions would be wasteful.

```
%prep
%setup -q -n Scalar-List-Utils-%{version}

%build
%{__perl} Makefile.PL INSTALLDIRS=vendor OPTIMIZE="%{optflags}"
make %{?_smp_mflags}

%install
make pure_install DESTDIR=%{buildroot}

find %{buildroot} -type f -name .packlist -exec rm -f {} \;
find %{buildroot} -type f -name '*.bs' -size 0 -exec rm -f {} \;

%{_fixperms} %{buildroot}/*

%check
make test

%files
%doc Changes README
%{perl_vendorarch}/auto/*
%{perl_vendorarch}/List*
%{perl_vendorarch}/Scalar*
%{_mandir}/man3/*

%changelog
* Fri Jan 24 2014 Daniel Mach <dmach@redhat.com> - 1.27-248
- Mass rebuild 2014-01-24

* Fri Dec 27 2013 Daniel Mach <dmach@redhat.com> - 1.27-247
- Mass rebuild 2013-12-27

* Wed Jul 31 2013 Petr Pisar <ppisar@redhat.com> - 1.27-246
- Specify all dependencies

* Fri Jan 04 2013 Iain Arnell <iarnell@gmail.com> 1.27-245
- update to latest upstream version

* Fri Aug 17 2012 Petr Pisar <ppisar@redhat.com> - 1.25-240
- Increase release to replace perl sub-package (bug #848961)

* Thu Aug 16 2012 Petr Pisar <ppisar@redhat.com> - 1.25-4
- Correct dependencies

* Tue Aug 14 2012 Daniel Mach <dmach@redhat.com> - 1.25-3.1
- Rebuild for perl 5.16
```

\* Fri Jul 20 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.25-3

- Rebuilt for [https://fedoraproject.org/wiki/Fedora\\_18\\_Mass\\_Rebuild](https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild)

\* Wed Jun 06 2012 Petr Pisar <ppisar@redhat.com> - 1.25-2

- Perl 5.16 rebuild

\* Sun Mar 25 2012 Iain Arnell <iarnell@gmail.com> 1.25-1

- update to latest upstream version

\* Fri Jan 13 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.23-3

- Rebuilt for [https://fedoraproject.org/wiki/Fedora\\_17\\_Mass\\_Rebuild](https://fedoraproject.org/wiki/Fedora_17_Mass_Rebuild)

\* Fri Jun 17 2011 Marcela Malov <mmlasano@redhat.com> - 1.23-2

- Perl mass rebuild

\* Mon Feb 21 2011 Iain Arnell <iarnell@gmail.com> 1.23-1

- Specfile autogenerated by cpan-spec 1.79.

Found in path(s):

\* /opt/cola/permits/1000848938\_1646171587.35/0/perl-Scalar-List-Utills-1.27-248.el7.src.rpm-cosi-expand-archive-CaOWMkPy/perl-Scalar-List-Utills.spec

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

license: perl

Found in path(s):

\* /opt/cola/permits/1000848938\_1646171587.35/0/perl-Scalar-List-Utills-1.27-248.el7.src.rpm-cosi-expand-archive-CaOWMkPy/Scalar-List-Utills-1.27.tar.gz-cosi-expand-archive-uUutpmjL/Scalar-List-Utills-1.27/META.yml

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

---

abstract: 'Common Scalar and List utility subroutines'

author:

- 'Graham Barr <gbarr@cpan.org>'

build\_requires:

ExtUtils::MakeMaker: 0

configure\_requires:

ExtUtils::MakeMaker: 0

distribution\_type: module

dynamic\_config: 0

generated\_by: 'ExtUtils::MakeMaker version 6.57\_05'

license: perl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: 1.4

name: Scalar-List-Utills

no\_index:

directory:

- t
- inc

requires:

Test::More: 0

resources:

repository: <https://github.com/Scalar-List-Utils/Scalar-List-Utils>

version: 1.27

Found in path(s):

\* /opt/cola/permits/1000848938\_1646171587.35/0/perl-Scalar-List-Utils-1.27-248.el7.src.rpm-cosi-expand-archive-CaOWMkPy/Scalar-List-Utils-1.27.tar.gz-cosi-expand-archive-uUutpmjL/Scalar-List-Utils-1.27/MYMETA.yml

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=head1 NAME

List::Util::XS - Indicate if List::Util was compiled with a C compiler

=head1 SYNOPSIS

use List::Util::XS 1.20;

=head1 DESCRIPTION

C<List::Util::XS> can be used as a dependency to ensure List::Util was installed using a C compiler and that the XS version is installed.

During installation C<\$List::Util::XS::VERSION> will be set to C<undef> if the XS was not compiled.

Starting with release 1.23\_03, Scalar-List-Util is B<always> using the XS implementation, but for backwards compatibility, we still ship the C<List::Util::XS> module which just loads C<List::Util>.

=head1 SEE ALSO

L<Scalar::Util>, L<List::Util>, L<List::MoreUtils>

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=cut

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\* /opt/cola/permits/1000848938\_1646171587.35/0/perl-Scalar-List-Utils-1.27-248.el7.src.rpm-cosi-expand-archive-

# 1.263 pam 1.1.8 23.e17

## 1.263.1 Available under license :

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Version 2, June 1991

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 */
```

Found in path(s):

```
* /opt/cola/permits/1000772257_1646171506.3/0/commons-logging-1-0-4-sources-
jar/org/apache/commons/logging/impl/Log4jFactory.java
* /opt/cola/permits/1000772257_1646171506.3/0/commons-logging-1-0-4-sources-
jar/org/apache/commons/logging/impl/AvalonLogger.java
* /opt/cola/permits/1000772257_1646171506.3/0/commons-logging-1-0-4-sources-
jar/org/apache/commons/logging/LogConfigurationException.java
* /opt/cola/permits/1000772257_1646171506.3/0/commons-logging-1-0-4-sources-
jar/org/apache/commons/logging/impl/Jdk13LumberjackLogger.java
* /opt/cola/permits/1000772257_1646171506.3/0/commons-logging-1-0-4-sources-
jar/org/apache/commons/logging/impl/NoOpLog.java
* /opt/cola/permits/1000772257_1646171506.3/0/commons-logging-1-0-4-sources-
jar/org/apache/commons/logging/impl/Log4JLogger.java
* /opt/cola/permits/1000772257_1646171506.3/0/commons-logging-1-0-4-sources-
jar/org/apache/commons/logging/impl/SimpleLog.java
* /opt/cola/permits/1000772257_1646171506.3/0/commons-logging-1-0-4-sources-
jar/org/apache/commons/logging/impl/Jdk14Logger.java
* /opt/cola/permits/1000772257_1646171506.3/0/commons-logging-1-0-4-sources-
jar/org/apache/commons/logging/LogFactory.java
* /opt/cola/permits/1000772257_1646171506.3/0/commons-logging-1-0-4-sources-
jar/org/apache/commons/logging/impl/Log4JCategoryLog.java
* /opt/cola/permits/1000772257_1646171506.3/0/commons-logging-1-0-4-sources-
jar/org/apache/commons/logging/impl/LogFactoryImpl.java
* /opt/cola/permits/1000772257_1646171506.3/0/commons-logging-1-0-4-sources-
jar/org/apache/commons/logging/Log.java
* /opt/cola/permits/1000772257_1646171506.3/0/commons-logging-1-0-4-sources-
```

jar/org/apache/commons/logging/impl/LogKitLogger.java  
\* /opt/cola/permits/1000772257\_1646171506.3/0/commons-logging-1-0-4-sources-  
jar/org/apache/commons/logging/LogSource.java

# 1.265 jboss-logging 3.3.0.Final

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

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

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

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

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

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

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- 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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## 1.267 libteam 1.29-3.el7

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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

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# 1.268 microcode-ctl 2.1-73.e17

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## 1.272 audit 2.8.5 4.e17

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- \* /opt/ws\_local/PERMITS\_SQL/1034720958\_1588977597.83/0/protobuf-3-6-1-1-tar-gz/protobuf-3.6.1/google/protobuf/pyext/repeated\_composite\_container.h
- \* /opt/ws\_local/PERMITS\_SQL/1034720958\_1588977597.83/0/protobuf-3-6-1-1-tar-gz/protobuf-3.6.1/google/protobuf/pyext/message.h
- \* /opt/ws\_local/PERMITS\_SQL/1034720958\_1588977597.83/0/protobuf-3-6-1-1-tar-gz/protobuf-3.6.1/google/protobuf/pyext/message.cc
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- \* /opt/ws\_local/PERMITS\_SQL/1034720958\_1588977597.83/0/protobuf-3-6-1-1-tar-gz/protobuf-3.6.1/google/protobuf/pyext/extension\_dict.cc

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\* /opt/ws\_local/PERMITS\_SQL/1034720958\_1588977597.83/0/protobuf-3-6-1-1-tar-gz/protobuf-3.6.1/google/protobuf/pyext/repeated\_scalar\_container.cc

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## 1.277 spidermonkey 17.0.0-20.el7

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```
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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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# 1.281 checkpolicy 2.5-8.e17

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## 1.283 kerberos 1.15.1-50.e17

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cmd/krb5/iprof/iprof.x
cmd/krb5/iprof/iprof_hdr.h
cmd/krb5/kadmin/server/iprofd_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  
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/ipropr\_hdr.h  
kadmin/server/ipropr\_svc.c  
lib/kdb/ipropr.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
slave/kpropd\_rpc.c  
slave/kproplog.c

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# 1.292 gstreamer 1.16.1

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```

Found in path(s):

```
* /opt/cola/permits/1000738114_1651084661.34/0/json-smart-2-2-1-sources-
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- \* /opt/cola/permits/1000738114\_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/writer/JsonReader.java
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- \* /opt/cola/permits/1000738114\_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/writer/DefaultMapperOrdered.java
- \* /opt/cola/permits/1000738114\_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/parser/JSONParserInputStream.java
- \* /opt/cola/permits/1000738114\_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/writer/CompressorMapper.java
- \* /opt/cola/permits/1000738114\_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/JSONStreamAware.java
- \* /opt/cola/permits/1000738114\_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/writer/ArraysMapper.java
- \* /opt/cola/permits/1000738114\_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/parser/JSONParserMemory.java
- \* /opt/cola/permits/1000738114\_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/JSONUtil.java
- \* /opt/cola/permits/1000738114\_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/parser/JSONParserReader.java
- \* /opt/cola/permits/1000738114\_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/writer/DefaultMapperCollection.java
- \* /opt/cola/permits/1000738114\_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/JSONAware.java
- \* /opt/cola/permits/1000738114\_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/JStylerObj.java
- \* /opt/cola/permits/1000738114\_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/JSONArray.java
- \* /opt/cola/permits/1000738114\_1651084661.34/0/json-smart-2-2-1-sources-

jar/net/minidev/json/parser/JSONParserBase.java  
\* /opt/cola/permits/1000738114\_1651084661.34/0/json-smart-2-2-1-sources-  
jar/net/minidev/json/writer/FakeMapper.java  
\* /opt/cola/permits/1000738114\_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/JSONStyle.java  
\* /opt/cola/permits/1000738114\_1651084661.34/0/json-smart-2-2-1-sources-  
jar/net/minidev/json/parser/JSONParserStream.java  
\* /opt/cola/permits/1000738114\_1651084661.34/0/json-smart-2-2-1-sources-  
jar/net/minidev/json/writer/BeansMapper.java  
\* /opt/cola/permits/1000738114\_1651084661.34/0/json-smart-2-2-1-sources-  
jar/net/minidev/json/JSONStreamAwareEx.java

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. The file ``src/libs/snprintf/snprintf.c'`, written by Mark Martinec  
<mark.martinec@ijs.si>.

Please look into `snprintf.c` for the copyright message.

The complete `snprintf` package together with documentation is available from

<http://www.ijs.si/software/snprintf/> .

. The ``grn'` preprocessor, written by Barry Roitblat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.

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```
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'`.

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. The file ``tmac/hyphen.fr'` contains the same patterns as the file ``frhyph.tex'` (for TeX), which can be found at

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. The file ``tmac/hyphen.sv'` is identical to the file ``svhyph.tex'`, which can be found at

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. The files ``tmac/hyphen.det'` and ``tmac/hyphen.den'` contain the same patterns as the files ``dehyphn.tex'` and ``dehypht.tex'` (for TeX), which can be found at

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. The file `tmac/hyphenex.det' is identical to the file `dehyphtex.tex', which can be found at

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

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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 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<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<C<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>, 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 C<undef> is used to indicate the end of document being parsed.

The other C<parser\_I<whatever>> methods are meant to be called only once per C<\$parser> object; but C<parse\_lines> can be called as many times per C<\$parser> object as you want, as long as the last call (and only the last call) ends with an C<undef> value.

```
=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.

=over

=item `C<< $parser->parse_characters( I<SOMEVALUE> ) >>`

The Pod parser normally expects to read octets and to convert those octets to characters based on the `C<=<encoding>` declaration in the Pod source. Set this option to a true value to indicate that the Pod source is already a Perl character stream. This tells the parser to ignore any `C<=<encoding>` command and to skip all the code paths involving decoding octets.

=item `C<< $parser->no_whining( I<SOMEVALUE> ) >>`

If you set this attribute to a true value, you will suppress the parser's complaints about irregularities in the Pod coding. By default, this attribute's value is false, meaning that irregularities will be reported.

Note that turning this attribute to true won't suppress one or two kinds of complaints about rarely occurring unrecoverable errors.

=item `C<< $parser->no_errata_section( I<SOMEVALUE> ) >>`

If you set this attribute to a true value, you will stop the parser from generating a "POD ERRORS" section at the end of the document. By default, this attribute's value is false, meaning that an errata section will be generated, as necessary.

=item `C<< $parser->complain_stderr( I<SOMEVALUE> ) >>`

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>.

=item C<< \$parser->source\_filename >>

This returns the filename that this parser object was set to read from.

=item C<< \$parser->doc\_has\_started >>

This returns true if C<\$parser> has read from a source, and has seen Pod content in it.

=item C<< \$parser->source\_dead >>

This returns true if C<\$parser> has read from a source, and come to the end of that source.

=item C<< \$parser->strip\_verbatim\_indent( I<SOMEVALUE> ) >>

The perlpod spec for a Verbatim paragraph is "It should be reproduced exactly...", which means that the whitespace you've used to indent your verbatim blocks will be preserved in the output. This can be annoying for outputs such as HTML, where that whitespace will remain in front of every line. It's an unfortunate case where syntax is turned into semantics.

If the POD your 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;
});
```

=back

=head1 TERTIARY METHODS

=over

=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 effected.

=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 effected.

=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.

=item C<< \$parser->accept\_target( @targets ) >>X<accept\_target>

Alias for L<< accept\_targets >>.

=item C<< \$parser->accept\_target\_as\_text( @targets ) >>X<accept\_target\_as\_text>

Alias for L<< accept\_targets\_as\_text >>.

=item C<< \$parser->accept\_targets( @targets ) >>X<accept\_targets>

Accepts targets for C<< =begin/=for/=end >> sections of the POD.

=item C<< \$parser->accept\_targets\_as\_text( @targets ) >>X<accept\_targets\_as\_text>

Accepts targets for C<< =begin/=for/=end >> sections that should be parsed as POD. For details, see L<< perlpodspec/About Data Paragraphs >>.

=item C<< \$parser->any\_errata\_seen() >>X<any\_errata\_seen>

Used to check if any errata was seen.

I<Example:>

```
die "too many errors\n" if $parser->any_errata_seen();
```

=item C<< \$parser->detected\_encoding() >>X<detected\_encoding>

Return the encoding corresponding to C<< =encoding >>, but only if the encoding was recognized and handled.

=item C<< \$parser->encoding() >>X<encoding>

Return encoding of the document, even if the encoding is not correctly handled.

=item C<< \$parser->parse\_from\_file( \$source, \$to ) >>X<parse\_from\_file>

Parses from C<\$source> file to C<\$to> file. Similar to L<< Pod::Parser/parse\_from\_file >>.

=item C<< \$parser->scream( @error\_messages ) >>X<scream>

Log an error that can't be ignored.

=item C<< \$parser->unaccept\_code( @codes ) >>X<unaccept\_code>

Alias for L<< unaccept\_codes >>.

=item C<< \$parser->unaccept\_codes( @codes ) >>X<unaccept\_codes>

Removes C<< @codes >> as valid codes for the parse.

=item C<< \$parser->unaccept\_directive( @directives ) >>X<unaccept\_directive>

Alias for L<< unaccept\_directives >>.

=item C<< \$parser->unaccept\_directives( @directives ) >>X<unaccept\_directives>

Removes C<< @directives >> as valid directives for the parse.

=item C<< \$parser->unaccept\_target( @targets ) >>X<unaccept\_target>

Alias for L<< unaccept\_targets >>.

=item C<< \$parser->unaccept\_targets( @targets ) >>X<unaccept\_targets>

Removes C<< @targets >> as valid targets for the parse.

=item C<< \$parser->version\_report() >>X<version\_report>

Returns a string describing the version.

=item C<< \$parser->whine( @error\_messages ) >>X<whine>

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 Latin-1) by examining the first non-ASCII bytes and applying the heuristic described in [L<perlpodspec>](#).

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 CAVEATS

This is just a beta release -- there are a good number of things still left to do. Notably, support for EBCDIC platforms is still half-done, an untested.

#### =head1 SEE ALSO

[L<Pod::Simple::Subclassing>](#)

[L<perlpod|perlpod>](#)

[L<perlpodspec|perlpodspec>](#)

[L<Pod::Escapes|Pod::Escapes>](#)

[L<perldoc>](#)

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=head1 AUTHOR

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Pod::Simple is maintained by:

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=item \* Hans Dieter Pearcey C<hdp@cpan.org>

=item \* David E. Wheeler C<dwheeler@cpan.org>

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Documentation has been contributed by:

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=item \* Gabor Szabo C<szabgab@gmail.com>

=item \* Shawn H Corey C<SHCOREY at cpan.org>

=back

=cut

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\* /opt/cola/permits/1000849041\_1646171520.95/0/perl-Pod-Simple-3.28-4.el7.src.rpm-cosi-expand-archive-8bV9qtZC/Pod-Simple-3.28.tar.gz-cosi-expand-archive-TIm8aDDs/Pod-Simple-3.28/lib/Pod/Simple.pod

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=head1 NAME

Pod::Simple::HTMLBatch - convert several Pod files to several HTML files

=head1 SYNOPSIS

perl -MPod::Simple::HTMLBatch -e 'Pod::Simple::HTMLBatch::go' in out

## =head1 DESCRIPTION

This module is used for running batch-conversions of a lot of HTML documents

This class is NOT a subclass of Pod::Simple::HTML (nor of bad old Pod::Html) -- although it uses Pod::Simple::HTML for doing the conversion of each document.

The normal use of this class is like so:

```
use Pod::Simple::HTMLBatch;
my $batchconv = Pod::Simple::HTMLBatch->new;
$batchconv->some_option( some_value );
$batchconv->some_other_option( some_other_value );
$batchconv->batch_convert( \@search_dirs, $output_dir );
```

## =head2 FROM THE COMMAND LINE

Note that this class also provides (but does not export) the function Pod::Simple::HTMLBatch::go. This is basically just a shortcut for C<< Pod::Simple::HTMLBatch->batch\_convert(@ARGV) >>. It's meant to be handy for calling from the command line.

However, the shortcut requires that you specify exactly two command-line arguments, C<indirs> and C<outdir>.

Example:

```
% mkdir out_html
% perl -MPod::Simple::HTMLBatch -e Pod::Simple::HTMLBatch::go @INC out_html
  (to convert the pod from Perl's @INC
   files under the directory ./out_html)
```

(Note that the command line there contains a literal atsign-I-N-C. This is handled as a special case by batch\_convert, in order to save you having to enter the odd-looking "" as the first command-line parameter when you mean "just use whatever's in @INC".)

Example:

```
% mkdir ../seekrut
% chmod og-rx ../seekrut
% perl -MPod::Simple::HTMLBatch -e Pod::Simple::HTMLBatch::go . ../seekrut
  (to convert the pod under the current dir into HTML
   files under the directory ../seekrut)
```

Example:

```
% perl -MPod::Simple::HTMLBatch -e Pod::Simple::HTMLBatch::go happydocs .  
(to convert all pod from happydocs into the current directory)
```

```
=head1 MAIN METHODS
```

```
=over
```

```
=item $batchconv = Pod::Simple::HTMLBatch->new;
```

This TODO

```
=item $batchconv->batch_convert( I<indirs>, I<outdir> );
```

this TODO

```
=item $batchconv->batch_convert( undef , ...);
```

```
=item $batchconv->batch_convert( q{ @INC}, ...);
```

These two values for I<indirs> specify that the normal Perl @INC

```
=item $batchconv->batch_convert( \@dirs , ...);
```

This specifies that the input directories are the items in the arrayref C<\@dirs>.

```
=item $batchconv->batch_convert( "somedir" , ...);
```

This specifies that the director "somedir" is the input. (This can be an absolute or relative path, it doesn't matter.)

A common value you might want would be just "." for the current directory:

```
$batchconv->batch_convert( ".", ...);
```

```
=item $batchconv->batch_convert( 'somedir:someother:also' , ...);
```

This specifies that you want the dirs "somedir", "someother", and "also" scanned, just as if you'd passed the arrayref C<[qw( somedir someother also)]>. Note that a ":"-separator is normal under Unix, but Under MSWin, you'll need C<'somedir;someother;also'>

instead, since the pathsep on MSWin is ";" instead of ":". (And I<that> is because ":" often comes up in paths, like C<"c:/perl/lib">.)

(Exactly what separator character should be used, is gotten from C<\$Config::Config{'path\_sep'}>, via the L<Config> module.)

```
=item $batchconv->batch_convert( ... , undef );
```

This specifies that you want the HTML output to go into the current directory.

(Note that a missing or undefined value means a different thing in the first slot than in the second. That's so that C<batch\_convert()> with no arguments (or undef arguments) means "go from @INC, into the current directory.)

```
=item $batchconv->batch_convert( ... , 'somedir' );
```

This specifies that you want the HTML output to go into the directory 'somedir'.

(This can be an absolute or relative path, it doesn't matter.)

```
=back
```

Note that you can also call C<batch\_convert> as a class method, like so:

```
Pod::Simple::HTMLBatch->batch_convert( ... );
```

That is just short for this:

```
Pod::Simple::HTMLBatch->new->batch_convert(...);
```

That is, it runs a conversion with default options, for whatever inputdirs and output dir you specify.

## =head2 ACCESSOR METHODS

The following are all accessor methods -- that is, they don't do anything on their own, but just alter the contents of the conversion object, which comprises the options for this particular batch conversion.

We show the "put" form of the accessors below (i.e., the syntax you use for setting the accessor to a specific value). But you can also call each method with no parameters to get its current value. For

example, `C<< $self->contents_file() >>` returns the current value of the `contents_file` attribute.

=over

=item `$batchconv->verbose( I<nonnegative_integer> );`

This controls how verbose to be during batch conversion, as far as notes to STDOUT (or whatever is `C<select>'d`) about how the conversion is going. If 0, no progress information is printed.

If 1 (the default value), some progress information is printed.

Higher values print more information.

=item `$batchconv->index( I<true-or-false> );`

This controls whether or not each HTML page is liable to have a little table of contents at the top (which we call an "index" for historical reasons). This is true by default.

=item `$batchconv->contents_file( I<filename> );`

If set, should be the name of a file (in the output directory) to write the HTML index to. The default value is "index.html".

If you set this to a false value, no contents file will be written.

=item `$batchconv->contents_page_start( I<HTML_string> );`

This specifies what string should be put at the beginning of the contents page.

The default is a string more or less like this:

```
<html>
<head><title>Perl Documentation</title></head>
<body class='contentspage'>
<h1>Perl Documentation</h1>
```

=item `$batchconv->contents_page_end( I<HTML_string> );`

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
<br >At Fri May 14 22:26:42 2004 GMT,
which is Fri May 14 14:26:42 2004 local time.</p>
```

```
=item $batchconv->add_css( $url );
```

TODO

```
=item $batchconv->add_javascript( $url );
```

TODO

```
=item $batchconv->css_flurry( I<true-or-false> );
```

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->javascript_flurry( I<true-or-false> );
```

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->no_contents_links( I<true-or-false> );
```

TODO

```
=item $batchconv->html_render_class( I<classname> );
```

This sets what class is used for rendering the files.

The default is "Pod::Simple::HTML". If you set it to something else, it should probably be a subclass of Pod::Simple::HTML, and you should C<require> or C<use> that class so that's it's loaded before Pod::Simple::HTMLBatch tries loading it.

```
=item $batchconv->search_class( I<classname> );
```

This sets what class is used for searching for the files.

The default is "Pod::Simple::Search". If you set it to something else, it should probably be a subclass of Pod::Simple::Search, and you should C<require> or C<use> that class so that's it's loaded before Pod::Simple::HTMLBatch tries loading it.

```
=back
```

## =head1 NOTES ON CUSTOMIZATION

### TODO

call `add_css($someurl)` to add stylesheet as alternate  
call `add_css($someurl,1)` to add as primary stylesheet

call `add_javascript`

subclass `Pod::Simple::HTML` and set `$batchconv->html_render_class` to  
that classname  
and maybe override  
`$page->batch_mode_page_object_init($self, $module, $infile, $outfile, $depth)`  
or maybe override  
`$batchconv->batch_mode_page_object_init($page, $module, $infile, $outfile, $depth)`  
subclass `Pod::Simple::Search` and set `$batchconv->search_class` to  
that classname

## =head1 ASK ME!

If you want to do some kind of big pod-to-HTML version with some particular kind of option that you don't see how to achieve using this module, email me ([C<sburke@cpan.org>](mailto:C<sburke@cpan.org>)) and I'll probably have a good idea how to do it. For reasons of concision and energetic laziness, some methods and options in this module (and the dozen modules it depends on) are undocumented; but one of those undocumented bits might be just what you're looking for.

## =head1 SEE ALSO

L<[Pod::Simple](#)>, L<[Pod::Simple::HTMLBatch](#)>, L<[perlpod](#)>, L<[perlpodspec](#)>

## =head1 SUPPORT

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Pod::Simple is maintained by:

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=cut

Found in path(s):

\* /opt/cola/permits/1000849041\_1646171520.95/0/perl-Pod-Simple-3.28-4.el7.src.rpm-cosi-expand-archive-8bV9qtZC/Pod-Simple-3.28.tar.gz-cosi-expand-archive-TIm8aDDs/Pod-Simple-3.28/lib/Pod/Simple/HTMLBatch.pm

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=head1 NAME

Pod::Simple::SimpleTree -- parse Pod into a simple parse tree

=head1 SYNOPSIS

% cat ptest.pod

=head1 PIE

I like B<pie>!

```
% perl -MPod::Simple::SimpleTree -MData::Dumper -e \  
"print Dumper(Pod::Simple::SimpleTree->new->parse_file(shift)->root)" \  
ptest.pod
```

```
$VAR1 = [  
  'Document',  
  { 'start_line' => 1 },  
  [  
    'head1',  
    { 'start_line' => 1 },  
    'PIE'  
  ],  
  [  
    'Para',  
    { 'start_line' => 3 },  
    'I like ',  
    [  
      'B',  
      {},  
      'pie'  
    ],  
    '!'  
  ]  
];
```

=head1 DESCRIPTION

This class is of interest to people writing a Pod processor/formatter.

This class takes Pod and parses it, returning a parse tree made just of arrayrefs, and hashrefs, and strings.

This is a subclass of L<Pod::Simple> and inherits all its methods.

This class is inspired by XML::Parser's "Tree" parsing-style, although it doesn't use exactly the same LoL format.

=head1 METHODS

At the end of the parse, call C<< \$parser->root >> to get the tree's top node.

=head1 Tree Contents

Every element node in the parse tree is represented by an arrayref of the form: C<[ I<elementname>, \%attributes, I<...subnodes...> ]>.

See the example tree dump in the Synopsis, above.

Every text node in the tree is represented by a simple (non-ref) string scalar. So you can test `C<ref($node)>` to see whether you have an element node or just a text node.

The top node in the tree is `C<[ 'Document', \%attributes, I<...subnodes...> ]>`

=head1 SEE ALSO

L<Pod::Simple>

L<perllo>

L<The "Tree" subsection in XML::Parser|XML::Parser/"Tree">

=head1 SUPPORT

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=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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3.28/lib/Pod/Simple/TextContent.pm

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## =head1 NAME

Pod::Simple::Debug -- put Pod::Simple into trace/debug mode

## =head1 SYNOPSIS

```
use Pod::Simple::Debug (5); # or some integer
```

Or:

```
my $debuglevel;
use Pod::Simple::Debug ($debuglevel, 0);
...some stuff that uses Pod::Simple to do stuff, but which
you don't want debug output from...
```

```
$debug_level = 4;
...some stuff that uses Pod::Simple to do stuff, but which
you DO want debug output from...
```

```
$debug_level = 0;
```

## =head1 DESCRIPTION

This is an internal module for controlling the debug level (a.k.a. trace level) of Pod::Simple. This is of interest only to Pod::Simple developers.

## =head1 CAVEATS

Note that you should load this module I<before> loading Pod::Simple (or any Pod::Simple-based class). If you try loading Pod::Simple::Debug after &Pod::Simple::DEBUG is already defined, Pod::Simple::Debug will throw a fatal error to the effect that "it's s too late to call Pod::Simple::Debug".

Note that the C<use Pod::Simple::Debug (\$x, I<somenum>>> mode will make Pod::Simple (et al) run rather slower, since &Pod::Simple::DEBUG won't be a constant sub anymore, and so Pod::Simple (et al) won't compile with constant-folding.

## =head1 GUTS

Doing this:

```
use Pod::Simple::Debug (5); # or some integer
```

is basically equivalent to:

```
BEGIN { sub Pod::Simple::DEBUG () {5} } # or some integer
use Pod::Simple ();
```

And this:

```
use Pod::Simple::Debug (\$debug_level,0); # or some integer
```

is basically equivalent to this:

```
my $debug_level;
BEGIN { $debug_level = 0 }
BEGIN { sub Pod::Simple::DEBUG () { $debug_level }
use Pod::Simple ();
```

=head1 SEE ALSO

L<Pod::Simple>

The article "Constants in Perl", in I<The Perl Journal> issue 21. See L<<http://interglacial.com/tpj/21/>>

=head1 SUPPORT

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Patches against Pod::Simple are welcome. Please send bug reports to <[bug-pod-simple@rt.cpan.org](mailto:bug-pod-simple@rt.cpan.org)>.

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=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <[sburke@cpan.org](mailto:sburke@cpan.org)>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item \* Allison Randal C<allison@perl.org>

=item \* Hans Dieter Pearcey C<hdp@cpan.org>

=item \* David E. Wheeler C<dwheeler@cpan.org>

=back

=cut

Found in path(s):

\* /opt/cola/permits/1000849041\_1646171520.95/0/perl-Pod-Simple-3.28-4.el7.src.rpm-cosi-expand-archive-8bV9qtZC/Pod-Simple-3.28.tar.gz-cosi-expand-archive-TIm8aDDs/Pod-Simple-3.28/lib/Pod/Simple/Debug.pm

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=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': $!\n";
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, though this is not recommended)

```
$p->html_javascript('
<script type="text/javascript" src="http://abc.com/b.js"></script>
<script type="text/javascript" src="http://abc.com/c.js"></script>');
```

Include a single css source in the header:

```
$p->html_css('/style.css');
```

or insert multiple css sources:

```
$p->html_css('
<link rel="stylesheet" type="text/css" title="pod_stylesheet" href="http://remote.server.com/jquery.css">
<link rel="stylesheet" type="text/css" title="pod_stylesheet" href="/style.css">');
```

Tell the parser where should the output go. In this case it will be placed in the \$html variable:

```
my $html;
$p->output_string(\$html);
```

Parse and process a file with pod in it:

```
$p->parse_file('path/to/Module/Name.pm');
```

```
=head1 METHODS
```

TODO

all (most?) accessorized methods

The following variables need to be set **B**<before> the call to the `->new` constructor.

Set the string that is included before the opening `<html>` tag:

```
$Pod::Simple::HTML::Doctype_decl = qq{<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01  
Transitional//EN"  
"http://www.w3.org/TR/html4/loose.dtd">\n};
```

Set the content-type in the HTML head: (defaults to ISO-8859-1)

```
$Pod::Simple::HTML::Content_decl = q{<meta http-equiv="Content-Type" content="text/html; charset=UTF-8"  
>};
```

Set the value that will be embedded in the opening tags of `F`, `C` tags and verbatim text.

`F` maps to `<em>`, `C` maps to `<code>`, Verbatim text maps to `<pre>` (Computerese defaults to `""`)

```
$Pod::Simple::HTML::Computerese = ' class="some_class_name";
```

```
=head2 html_css
```

```
=head2 html_javascript
```

```
=head2 title_prefix
```

```
=head2 title_postfix
```

```
=head2 html_header_before_title
```

This includes everything before the `<title>` opening tag including the Document type and including the opening `<title>` tag. The following call will set it to be a simple HTML file:

```
$p->html_header_before_title('<html><head><title>');
```

```
=head2 html_h_level
```

Normally `=head1` will become `<h1>`, `=head2` will become `<h2>` etc.

Using the `html_h_level` method will change these levels setting the `h` level of `=head1` tags:

```
$p->html_h_level(3);
```

Will make sure that =head1 will become <h3> and =head2 will become <h4> etc...

```
=head2 index
```

Set it to some true value if you want to have an index (in reality a table of contents) to be added at the top of the generated HTML.

```
$p->index(1);
```

```
=head2 html_header_after_title
```

Includes the closing tag of </title> and through the rest of the head till the opening of the body

```
$p->html_header_after_title('</title>...</head><body id="my_id">');
```

```
=head2 html_footer
```

The very end of the document:

```
$p->html_footer( qq[\n<!-- end doc -->\n\n</body></html>\n] );
```

```
=head1 SUBCLASSING
```

Can use any of the methods described above but for further customization one needs to override some of the methods:

```
package My::Pod;
use strict;
use warnings;
```

```
use base 'Pod::Simple::HTML';
```

```
# needs to return a URL string such
```

```
# http://some.other.com/page.html
```

```
# #anchor_in_the_same_file
```

```
# /internal/ref.html
```

```
sub do_pod_link {
```

```
    # My::Pod object and Pod::Simple::PullParserStartToken object
```

```
    my ($self, $link) = @_;
```

```
    say $link->tagname;      # will be L for links
```

```
    say $link->attr('to');   #
```

```
    say $link->attr('type'); # will be 'pod' always
```

```

say $link->attr('section');

# Links local to our web site
if ($link->tagname eq 'L' and $link->attr('type') eq 'pod') {
    my $to = $link->attr('to');
    if ($to =~ /^Padre::/) {
        $to =~ s{::}{/}g;
        return "/docs/Padre/$to.html";
    }
}

# all other links are generated by the parent class
my $ret = $self->SUPER::do_pod_link($link);
return $ret;
}

1;

```

Meanwhile in script.pl:

```

use My::Pod;

my $p = My::Pod->new;

my $html;
$p->output_string(\$html);
$p->parse_file('path/to/Module/Name.pm');
open my $out, '>', 'out.html' or die;
print $out $html;

```

TODO

maybe override do\_beginning do\_end

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::HTMLBatch>

TODO: a corpus of sample Pod input and HTML output? Or common idioms?

=head1 SUPPORT

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## =head1 ACKNOWLEDGEMENTS

Thanks to L[Hurricane Electric|http://he.net/](http://he.net/)> for permission to use its L[Linux man pages online|http://man.he.net/](http://man.he.net/)> site for man page links.

Thanks to L[search.cpan.org|http://search.cpan.org/](http://search.cpan.org/)> for permission to use the site for Perl module links.

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=head1 NAME

Pod::Simple::PullParserStartToken -- start-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> object, you might get an object of this class.

This is a subclass of L<Pod::Simple::PullParserToken> and inherits all its methods, and adds these methods:

=over

=item `$token->tagname`

This returns the tagname for this start-token object.  
For example, parsing a "`=head1 ...`" line will give you a start-token with the tagname of "head1", token(s) for its content, and then an end-token with the tagname of "head1".

=item `$token->tagname(I<somestring>)`

This changes the tagname for this start-token object.  
You probably won't need to do this.

=item `$token->tag(...)`

A shortcut for `$token->tagname(...)`

=item `$token->is_tag(I<somestring>)` or `$token->is_tagname(I<somestring>)`

These are shortcuts for `C<< $token->tag() eq I<somestring> >>`

=item `$token->attr(I<attrname>)`

This returns the value of the I<attrname> attribute for this start-token object, or undef.

For example, parsing a LZ<<<Foo/"Bar">>> link will produce a start-token with a "to" attribute with the value "Foo", a "type" attribute with the

value "pod", and a "section" attribute with the value "Bar".

```
=item $token->attr(I<attrname>, I<newvalue>)
```

This sets the I<attrname> attribute for this start-token object to I<newvalue>. You probably won't need to do this.

```
=item $token->attr_hash
```

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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```
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```

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

=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



`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 I<@INC> by the Perl interpreter itself. This attribute's default value is B<TRUE>. If you want to search only specific directories, set \$self->inc(0) before calling \$inc->survey or \$inc->find.

```
=item $search->verbose( I<nonnegative-number> );
```

This attribute, if set to a nonzero positive value, will make searches output (via C<warn>) notes about what they're doing as they do it.

This option may be useful for debugging a pod-related module.

This attribute's default value is zero, meaning that no C<warn> messages are produced. (Setting verbose to 1 turns on some messages, and setting it to 2 turns on even more messages, i.e., makes the following search(es) even more verbose than 1 would make them.)

```
=item $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".)

```
=item $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: C<("/etc/perljunk/File/Crunk.pm", "File::Crunk")> would be in C<@\_>.)

The callback routine's return value is not used for anything.

This attribute's default value is false, meaning that no callback is called.

```
=item $search->laborious( I<true-or-false> );
```

Unless you set this attribute to a true value, Pod::Search will apply Perl-specific heuristics to find the correct module PODs quickly.

This attribute's default value is false. You won't normally need to set this to true.

Specifically: Turning on this option will disable the heuristics for seeing only files with Perl-like extensions, omitting subdirectories that are numeric but do I<not> match the current Perl interpreter's version ID, suppressing F<site\_perl> as a module hierarchy name, etc.

```
=item $search->shadows( I<true-or-false> );
```

Unless you set this attribute to a true value, Pod::Simple::Search will consider only the first file of a given modulename as it looks thru the specified directories; that is, with this option off, if

Pod::Simple::Search has seen a C<somepathdir/Foo/Bar.pm> already in this search, then it won't bother looking at a C<somelaterpathdir/Foo/Bar.pm> later on in that search, because that file is merely a "shadow". But if you turn on C<< \$self->shadows(1) >>, then these "shadow" files are inspected too, and are noted in the pathname2podname return hash.

This attribute's default value is false; and normally you won't need to turn it on.

```
=item $search->limit_re( I<some-regexp> );
```

Setting this attribute (to a value that's a regexp) means that you want to limit the results just to items whose podnames match the given regexp. Normally this option is not needed, and the more efficient C<limit\_glob> attribute is used instead.

```
=item $search->dir_prefix( I<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.)

```
=item $search->progress( I<some-progress-object> );
```

If you set a value for this attribute, the value is expected to be an object (probably of a class that you define) that has a C<reach> method and a C<done> method. This is meant for reporting progress during the search, if you don't want to use a simple callback.

Normally you don't need to know about the C<progress> option, but I include it in case it might prove useful for someone somewhere.

While a search is in progress, the progress object's C<reach> and C<done> methods are called like this:

```
# Every time a file is being scanned for pod:  
$progress->reach($count, "Scanning $file"); ++$count;
```

```
# And then at the end of the search:  
$progress->done("Noted $count Pod files total");
```

Internally, we often set this to an object of class Pod::Simple::Progress. That class is probably undocumented, but you may wish to look at its source.

```
=item $name2path = $self->name2path;
```

This attribute is not a search parameter, but is used to report the result of C<survey> method, as discussed in the next section.

```
=item $path2name = $self->path2name;
```

This attribute is not a search parameter, but is used to report the result of C<survey> method, as discussed in the next section.

```
=back
```

```
=head1 MAIN SEARCH METHODS
```

Once you've actually set any options you want (if any), you can go ahead and use the following methods to search for Pod files in particular ways.

```
=head2 C<< $search->survey( @directories ) >>
```

The method C<survey> searches for POD documents in a given set of files and/or directories. This runs the search according to the various

options set by the accessors above. (For example, if the `C<inc>` attribute is on, as it is by default, then the perl `@INC` directories are implicitly added to the list of directories (if any) that you specify.)

The return value of `C<survey>` is two hashes:

`=over`

`=item C<name2path>`

A hash that maps from each pod-name to the filespec (like `"Stuff::Thing" => "/whatever/plib/Stuff/Thing.pm"`)

`=item C<path2name>`

A hash that maps from each Pod filespec to its pod-name (like `"/whatever/plib/Stuff/Thing.pm" => "Stuff::Thing"`)

`=back`

Besides saving these hashes as the `hashref` attributes `C<name2path>` and `C<path2name>`, calling this function also returns these hashrefs. In list context, the return value of `C<< $search->survey >>` is the list `C<(\%name2path, \%path2name)>`. In scalar context, the return value is `C< \%name2path >`. Or you can just call this in void context.

Regardless of calling context, calling `C<survey>` saves its results in its `C<name2path>` and `C<path2name>` attributes.

E.g., when searching in `F< $HOME/perl5lib >`, the file `F< $HOME/perl5lib/MyModule.pm >` would get the POD name `I< MyModule >`, whereas `F< $HOME/perl5lib/Myclass/Subclass.pm >` would be `I< Myclass::Subclass >`. The name information can be used for POD translators.

Only text files containing at least one valid POD command are found.

In verbose mode, a warning is printed if shadows are found (i.e., more than one POD file with the same POD name is found, e.g. `F< CPAN.pm >` in different directories). This usually indicates duplicate occurrences of modules in the `I< @INC >` search path, which is occasionally inadvertent (but is often simply a case of a user's path dir having a more recent version than the system's general path dirs in general.)

The options to this argument is a list of either directories that are searched recursively, or files. (Usually you wouldn't specify files, but just dirs.) Or you can just specify an empty-list, as in

`$name2path`; with the `C<inc>` option on, as it is by default, teh

The POD names of files are the plain basenames with any Perl-like extension (`.pm`, `.pl`, `.pod`) stripped, and path separators replaced by `C<::>`'s.

Calling `Pod::Simple::Search->search(...)` is short for `Pod::Simple::Search->new->search(...)`. That is, a throwaway object with default attribute values is used.

```
=head2 C<< $search->simplify_name( $str ) >>
```

The method `B<simplify_name>` is equivalent to `B<basename>`, but also strips Perl-like extensions (`.pm`, `.pl`, `.pod`) and extensions like `F<.bat>`, `F<.cmd>` on Win32 and OS/2, or `F<.com>` on VMS, respectively.

```
=head2 C<< $search->find( $pod ) >>
```

```
=head2 C<< $search->find( $pod, @search_dirs ) >>
```

Returns the location of a Pod file, given a Pod/module/script name (like `"Foo::Bar"` or `"perlvar"` or `"perldoc"`), and an idea of what files/directories to look in.

It searches according to the various options set by the accessors above. (For example, if the `C<inc>` attribute is on, as it is by default, then the perl `@INC` directories are implicitly added to the list of directories (if any) that you specify.)

This returns the full path of the first occurrence to the file. Package names (eg `'A::B'`) are automatically converted to directory names in the selected directory. Additionally, `'pm'`, `'pl'` and `'pod'` are automatically appended to the search as required. (So, for example, under Unix, `"A::B"` is converted to `"somedir/A/B.pm"`, `"somedir/A/B.pod"`, or `"somedir/A/B.pl"`, as appropriate.)

If no such Pod file is found, this method returns `undef`.

If any of the given search directories contains a `F<pod/>` subdirectory, then it is searched. (That's how we manage to find `F<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/theory/pod-simple/>](https://github.com/theory/pod-simple/). Feel free to fork and contribute, or to clone [L<git://github.com/theory/pod-simple.git>](https://github.com/theory/pod-simple.git) and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to [<bug-pod-simple@rt.cpan.org>](mailto: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>](mailto:sburke@cpan.org) with code borrowed from Marek Rouchal's [L<Pod::Find>](#), which in turn heavily borrowed code from Nick Ing-Simmons' [C<PodToHtml>](#).

But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item \* Allison Randal C<allison@perl.org>

=item \* Hans Dieter Pearcey C<hdp@cpan.org>

=item \* David E. Wheeler C<dwheeler@cpan.org>

=back

=cut

Found in path(s):

\* /opt/cola/permits/1000849041\_1646171520.95/0/perl-Pod-Simple-3.28-4.el7.src.rpm-cosi-expand-archive-8bV9qtZC/Pod-Simple-3.28.tar.gz-cosi-expand-archive-TIm8aDDs/Pod-Simple-3.28/lib/Pod/Simple/Search.pm

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

---

abstract: 'framework for parsing Pod'

author:

- 'Allison Randal <allison@perl.org>'

build\_requires:

ExtUtils::MakeMaker: 0

configure\_requires:

ExtUtils::MakeMaker: 0

dynamic\_config: 1

generated\_by: 'ExtUtils::MakeMaker version 6.6302, 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: Pod-Simple

no\_index:

directory:

- t

- inc

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



constant: 0  
integer: 0  
overload: 0  
strict: 0  
resources:  
homepage: <http://search.cpan.org/dist/Pod-Simple/>  
license: <http://dev.perl.org/licenses/>  
repository: <git://github.com/theory/pod-simple.git>  
version: 3.28

Found in path(s):

\* /opt/cola/permits/1000849041\_1646171520.95/0/perl-Pod-Simple-3.28-4.el7.src.rpm-cosi-expand-archive-8bV9qtZC/Pod-Simple-3.28.tar.gz-cosi-expand-archive-TIm8aDDs/Pod-Simple-3.28/META.yml

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

=head1 NAME

Pod::Simple::Subclassing -- write a formatter as a Pod::Simple subclass

=head1 SYNOPSIS

```
package Pod::SomeFormatter;
use Pod::Simple;
@ISA = qw(Pod::Simple);
$VERSION = '1.01';
use strict;

sub _handle_element_start {
my($parser, $element_name, $attr_hash_r) = @_;
...
}

sub _handle_element_end {
my($parser, $element_name, $attr_hash_r) = @_;
# NOTE: $attr_hash_r is only present when $element_name is "over" or "begin"
# The remaining code excerpts will mostly ignore this $attr_hash_r, as it is
# mostly useless. It is documented where "over-*" and "begin" events are
# documented.
...
}

sub _handle_text {
my($parser, $text) = @_;
...
}
1;
```

=head1 DESCRIPTION

This document is about using Pod::Simple to write a Pod processor, generally a Pod formatter. If you just want to know about using an existing Pod formatter, instead see its documentation and see also the docs in L<Pod::Simple>.

The zeroeth step in writing a Pod formatter is to make sure that there isn't already a decent one in CPAN. See L<<http://search.cpan.org/>>, and run a search on the name of the format you want to render to. Also consider joining the Pod People list L<<http://lists.perl.org/showlist.cgi?name=pod-people>> and asking whether anyone has a formatter for that format -- maybe someone cobbled one together but just hasn't released it.

The first step in writing a Pod processor is to read L<[perlpodspec](#)>, which contains notes information on writing a Pod parser (which has been largely taken care of by Pod::Simple), but also a lot of requirements and recommendations for writing a formatter.

The second step is to actually learn the format you're planning to format to -- or at least as much as you need to know to represent Pod, which probably isn't much.

The third step is to pick which of Pod::Simple's interfaces you want to use -- the basic interface via Pod::Simple or L<Pod::Simple::Methody> is event-based, sort of like L<HTML::Parser>'s interface, or sort of like L<XML::Parser>'s "Handlers" interface), but L<Pod::Simple::PullParser> provides a token-stream interface, sort of like L<HTML::TokeParser>'s interface; L<Pod::Simple::SimpleTree> provides a simple tree interface, rather like XML::Parser's "Tree" interface. Users familiar with XML-handling will find one of these styles relatively familiar; but if you would be even more at home with XML, there are classes that produce an XML representation of the Pod stream, notably L<Pod::Simple::XMLOutputStream>; you can feed the output of such a class to whatever XML parsing system you are most at home with.

The last step is to write your code based on how the events (or tokens, or tree-nodes, or the XML, or however you're parsing) will map to constructs in the output format. Also sure to consider how to escape text nodes containing arbitrary text, and also what to do with text nodes that represent preformatted text (from verbatim sections).

=head1 Events

TODO intro... mention that events are supplied for implicits, like for missing >'s

In the following section, we use XML to represent the event structure associated with a particular construct. That is, TODO

=over

=item C<< \$parser->\_handle\_element\_start( I<element\_name>, I<attr\_hashref> ) >>

=item C<< \$parser->\_handle\_element\_end( I<element\_name> ) >>

=item C<< \$parser->\_handle\_text( I<text\_string> ) >>

=back

TODO describe

=over

=item events with an element\_name of Document

Parsing a document produces this event structure:

```
<Document start_line="543">
...all events...
</Document>
```

The value of the I<start\_line> attribute will be the line number of the first Pod directive in the document.

If there is no Pod in the given document, then the event structure will be this:

```
<Document contentless="1" start_line="543">
</Document>
```

In that case, the value of the I<start\_line> attribute will not be meaningful; under current implementations, it will probably be the line number of the last line in the file.

=item events with an element\_name of Para

Parsing a plain (non-verbatim, non-directive, non-data) paragraph in a Pod document produces this event structure:

```
<Para start_line="543">
...all events in this paragraph...
```

</Para>

The value of the `I<start_line>` attribute will be the line number of the start of the paragraph.

For example, parsing this paragraph of Pod:

The value of the `I<start_line>` attribute will be the line number of the start of the paragraph.

produces this event structure:

```
<Para start_line="129">
  The value of the
  <I>
  start_line
  </I>
  attribute will be the line number of the first Pod directive
  in the document.
</Para>
```

=item events with an `element_name` of B, C, F, or I.

Parsing a `BE<lt>...E<gt>` formatting code (or of course any of its semantically identical syntactic variants

`S<BE<lt>E<lt> ... E<gt>E<gt>>`,  
or `S<BE<lt>E<lt>E<lt>E<lt> ... E<gt>E<gt>E<gt>E<gt>>`, etc.)  
produces this event structure:

```
<B>
...stuff...
</B>
```

Currently, there are no attributes conveyed.

Parsing C, F, or I codes produce the same structure, with only a different element name.

If your parser object has been set to accept other formatting codes, then they will be presented like these B/C/F/I codes -- i.e., without any attributes.

=item events with an `element_name` of S

Normally, parsing an `SE<lt>...E<gt>` sequence produces this event structure, just as if it were a B/C/F/I code:

```
<S>
```

```
...stuff...
</S>
```

However, Pod::Simple (and presumably all derived parsers) offers the C<nbsp\_for\_S> option which, if enabled, will suppress all S events, and instead change all spaces in the content to non-breaking spaces. This is intended for formatters that output to a format that has no code that means the same as SE<lt>...E<gt>, but which has a code/character that means non-breaking space.

=item events with an element\_name of X

Normally, parsing an XE<lt>...E<gt> sequence produces this event structure, just as if it were a B/C/F/I code:

```
<X>
...stuff...
</X>
```

However, Pod::Simple (and presumably all derived parsers) offers the C<nix\_X\_codes> option which, if enabled, will suppress all X events and ignore their content. For formatters/processors that don't use X events, this is presumably quite useful.

=item events with an element\_name of L

Because the LE<lt>...E<gt> is the most complex construct in the language, it should not surprise you that the events it generates are the most complex in the language. Most of complexity is hidden away in the attribute values, so for those of you writing a Pod formatter that produces a non-hypertextual format, you can just ignore the attributes and treat an L event structure like a formatting element that (presumably) doesn't actually produce a change in formatting. That is, the content of the L event structure (as opposed to its attributes) is always what text should be displayed.

There are, at first glance, three kinds of L links: URL, man, and pod.

When a LE<lt>I<some\_url>E<gt> code is parsed, it produces this event structure:

```
<L content-implicit="yes" raw="that_url" to="that_url" type="url">
that_url
</L>
```

The C<type="url"> attribute is always specified for this type of L code.

For example, this Pod source:

```
L<http://www.perl.com/CPAN/authors/>
```

produces this event structure:

```
<L content-implicit="yes" raw="http://www.perl.com/CPAN/authors/" to="http://www.perl.com/CPAN/authors/"
type="url">
http://www.perl.com/CPAN/authors/
</L>
```

When a `LE<lt>I<manpage(section)>E<gt>` code is parsed (and these are fairly rare and not terribly useful), it produces this event structure:

```
<L content-implicit="yes" raw="manpage(section)" to="manpage(section)" type="man">
manpage(section)
</L>
```

The `C<type="man">` attribute is always specified for this type of L code.

For example, this Pod source:

```
L<crontab(5)>
```

produces this event structure:

```
<L content-implicit="yes" raw="crontab(5)" to="crontab(5)" type="man">
crontab(5)
</L>
```

In the rare cases where a man page link has a specified, that text appears in a `I<section>` attribute. For example, this Pod source:

```
L<crontab(5)/"ENVIRONMENT">
```

will produce this event structure:

```
<L content-implicit="yes" raw="crontab(5)/&quot;ENVIRONMENT&quot;" section="ENVIRONMENT"
to="crontab(5)" type="man">
"ENVIRONMENT" in crontab(5)
</L>
```

In the rare case where the Pod document has code like `LE<lt>I<sometext>|I<manpage(section)>E<gt>`, then the `I<sometext>` will appear as the content of the element, the `I<manpage(section)>` text will appear only as the value of the `I<to>` attribute, and there will be no

C<content-implicit="yes"> attribute (whose presence means that the Pod parser had to infer what text should appear as the link text -- as opposed to cases where that attribute is absent, which means that the Pod parser did I<not> have to infer the link text, because that L code explicitly specified some link text.)

For example, this Pod source:

```
L<hell itself!|crontab(5)>
```

will produce this event structure:

```
<L raw="hell itself!|crontab(5)" to="crontab(5)" type="man">
hell itself!
</L>
```

The last type of L structure is for links to/within Pod documents. It is the most complex because it can have a I<to> attribute, I<or> a I<section> attribute, or both. The C<type="pod"> attribute is always specified for this type of L code.

In the most common case, the simple case of a LE<lt>podpageE<gt> code produces this event structure:

```
<L content-implicit="yes" raw="podpage" to="podpage" type="pod">
podpage
</L>
```

For example, this Pod source:

```
L<Net::Ping>
```

produces this event structure:

```
<L content-implicit="yes" raw="Net::Ping" to="Net::Ping" type="pod">
Net::Ping
</L>
```

In cases where there is link-text explicitly specified, it is to be found in the content of the element (and not the attributes), just as with the LE<lt>I<sometext>|I<manpage(section)>E<gt> case discussed above. For example, this Pod source:

```
L<Perl Error Messages|perldiag>
```

produces this event structure:

```
<L raw="Perl Error Messages|perldiag" to="perldiag" type="pod">
```

Perl Error Messages

</L>

In cases of links to a section in the current Pod document, there is a I<section> attribute instead of a I<to> attribute.

For example, this Pod source:

```
L</"Member Data">
```

produces this event structure:

```
<L content-implicit="yes" raw=""/&quot;Member Data&quot;" section="Member Data" type="pod">
"Member Data"
</L>
```

As another example, this Pod source:

```
L<the various attributes|/"Member Data">
```

produces this event structure:

```
<L raw="the various attributes|/&quot;Member Data&quot;" section="Member Data" type="pod">
the various attributes
</L>
```

In cases of links to a section in a different Pod document, there are both a I<section> attribute and a L<to> attribute.

For example, this Pod source:

```
L<perlsyn/"Basic BLOCKs and Switch Statements">
```

produces this event structure:

```
<L content-implicit="yes" raw="perlsyn/&quot;Basic BLOCKs and Switch Statements&quot;" section="Basic
BLOCKs and Switch Statements" to="perlsyn" type="pod">
"Basic BLOCKs and Switch Statements" in perlsyn
</L>
```

As another example, this Pod source:

```
L<SWITCH statements|perlsyn/"Basic BLOCKs and Switch Statements">
```

produces this event structure:

```
<L raw="SWITCH statements|perlsyn/&quot;Basic BLOCKs and Switch Statements&quot;" section="Basic
BLOCKs and Switch Statements" to="perlsyn" type="pod">
SWITCH statements
</L>
```



Incidentally, note that we do not distinguish between these syntaxes:

```
L</"Member Data">
L<"Member Data">
L</Member Data>
L<Member Data> [deprecated syntax]
```

That is, they all produce the same event structure (for the most part), namely:

```
<L content-implicit="yes" raw="$depends_on_syntax" section="Member Data" type="pod">
&#34;Member Data&#34;
</L>
```

The I<raw> attribute depends on what the raw content of the C<LE<lt>E<gt>> is, so that is why the event structure is the same "for the most part".

If you have not guessed it yet, the I<raw> attribute contains the raw, original, unescaped content of the C<LE<lt>E<gt>> formatting code. In addition to the examples above, take notice of the following event structure produced by the following C<LE<lt>E<gt>> formatting code.

```
L<click B<here>|page/About the C<-M> switch>

<L raw="click B<here>|page/About the C<-M> switch" section="About the -M switch" to="page" type="pod">
click B<here>
</L>
```

Specifically, notice that the formatting codes are present and unescaped in I<raw>.

There is a known bug in the I<raw> attribute where any surrounding whitespace is condensed into a single '. For example, given LE<60> linkE<62>, I<raw> will be " link".

=item events with an element\_name of E or Z

While there are Pod codes EE<lt>...E<gt> and ZE<lt>E<gt>, these I<do not> produce any E or Z events -- that is, there are no such events as E or Z.

=item events with an element\_name of Verbatim

When a Pod verbatim paragraph (AKA "codeblock") is parsed, it produces this event structure:

```
<Verbatim start_line="543" xml:space="preserve">
...text...
```

</Verbatim>

The value of the I<start\_line> attribute will be the line number of the first line of this verbatim block. The I<xml:space> attribute is always present, and always has the value "preserve".

The text content will have tabs already expanded.

=item events with an element\_name of head1 .. head4

When a "=head1 ..." directive is parsed, it produces this event structure:

```
<head1>
...stuff...
</head1>
```

For example, a directive consisting of this:

=head1 Options to C<new> et al.

will produce this event structure:

```
<head1 start_line="543">
Options to
<C>
  new
</C>
et al.
</head1>
```

"=head2" thru "=head4" directives are the same, except for the element names in the event structure.

=item events with an element\_name of encoding

In the default case, the events corresponding to C<=encoding> directives are not emitted. They are emitted if C<keep\_encoding\_directive> is true. In that case they produce event structures like L</"events with an element\_name of head1 .. head4"> above.

=item events with an element\_name of over-bullet

When an "=over ... Z<>=back" block is parsed where the items are a bulleted list, it will produce this event structure:

```
<over-bullet indent="4" start_line="543">
```

```
<item-bullet start_line="545">
  ...Stuff...
</item-bullet>
...more item-bullets...
</over-bullet fake-closer="1">
```

The attribute `I<fake-closer>` is only present if it is a true value; it is not present if it is a false value. It is shown in the above example to illustrate where the attribute is (in the `B<closing>` tag). It signifies that the `C<=over>` did not have a matching `C<=back>`, and thus `Pod::Simple` had to create a fake closer.

For example, this Pod source:

```
=over

=item *

Something

=back
```

Would produce an event structure that does `B<not>` have the `I<fake-closer>` attribute, whereas this Pod source:

```
=over

=item *
```

Gasp! An unclosed `=over` block!

would. The rest of the `over-*` examples will not demonstrate this attribute, but they all can have it. See `L<Pod::Checker>`'s source for an example of this attribute being used.

The value of the `I<indent>` attribute is whatever value is after the `"=over"` directive, as in `"=over 8"`. If no such value is specified in the directive, then the `I<indent>` attribute has the value `"4"`.

For example, this Pod source:

```
=over

=item *

Stuff

=item *
```

Bar I<baz>!

=back

produces this event structure:

```
<over-bullet indent="4" start_line="10">
<item-bullet start_line="12">
  Stuff
</item-bullet>
<item-bullet start_line="14">
  Bar <I>baz</I>!
</item-bullet>
</over-bullet>
```

=item events with an element\_name of over-number

When an "=over ... Z<>=back" block is parsed where the items are a numbered list, it will produce this event structure:

```
<over-number indent="4" start_line="543">
<item-number number="1" start_line="545">
  ...Stuff...
</item-number>
...more item-number...
</over-bullet>
```

This is like the "over-bullet" event structure; but note that the contents are "item-number" instead of "item-bullet", and note that they will have a "number" attribute, which some formatters/processors may ignore (since, for example, there's no need for it in HTML when producing an "<UL><LI>...</LI>...</UL>" structure), but which any processor may use.

Note that the values for the I<number> attributes of "item-number" elements in a given "over-number" area I<will> start at 1 and go up by one each time. If the Pod source doesn't follow that order (even though it really should!), whatever numbers it has will be ignored (with the correct values being put in the I<number> attributes), and an error message might be issued to the user.

=item events with an element\_name of over-text

These events are somewhat unlike the other over-\* structures, as far as what their contents are. When an "=over ... Z<>=back" block is parsed where the items are a list of text "subheadings", it will produce this event structure:

```

<over-text indent="4" start_line="543">
<item-text>
  ...stuff...
</item-text>
...stuff (generally Para or Verbatim elements)...
<item-text>
  ...more item-text and/or stuff...
</over-text>

```

The `I<indent>` and `I<fake-closer>` attributes are as with the other over-\* events.

For example, this Pod source:

```

=over

=item Foo

Stuff

=item Bar I<baz>!

Quux

=back

```

produces this event structure:

```

<over-text indent="4" start_line="20">
<item-text start_line="22">
  Foo
</item-text>
<Para start_line="24">
  Stuff
</Para>
<item-text start_line="26">
  Bar
  <I>
    baz
  </I>
  !
</item-text>
<Para start_line="28">
  Quux
</Para>
</over-text>

```

=item events with an element\_name of over-block

These events are somewhat unlike the other over-\* structures, as far as what their contents are. When an "=over ... Z<>=back" block is parsed where there are no items, it will produce this event structure:

```
<over-block indent="4" start_line="543">
...stuff (generally Para or Verbatim elements)...
</over-block>
```

The I<indent> and I<fake-closer> attributes are as with the other over-\* events.

For example, this Pod source:

```
=over
```

```
For cutting off our trade with all parts of the world
```

```
For transporting us beyond seas to be tried for pretended offenses
```

```
He is at this time transporting large armies of foreign mercenaries to
complete the works of death, desolation and tyranny, already begun with
circumstances of cruelty and perfidy scarcely paralleled in the most
barbarous ages, and totally unworthy the head of a civilized nation.
```

```
=back
```

will produce this event structure:

```
<over-block indent="4" start_line="2">
<Para start_line="4">
  For cutting off our trade with all parts of the world
</Para>
<Para start_line="6">
  For transporting us beyond seas to be tried for pretended offenses
</Para>
<Para start_line="8">
  He is at this time transporting large armies of [...more text...]
</Para>
</over-block>
```

=item events with an element\_name of over-empty

B<Note: These events are only triggered if C<parse\_empty\_lists()> is set to a true value.>

These events are somewhat unlike the other over-\* structures, as far as what

their contents are. When an "`=over ... Z<>=back`" block is parsed where there is no content, it will produce this event structure:

```
<over-empty indent="4" start_line="543">
</over-empty>
```

The `I<indent>` and `I<fake-closer>` attributes are as with the other over-\* events.

For example, this Pod source:

```
=over

=over

=back

=back
```

will produce this event structure:

```
<over-block indent="4" start_line="1">
<over-empty indent="4" start_line="3">
</over-empty>
</over-block>
```

Note that the outer `C<=over>` is a block because it has no `C<=item>`s but still has content: the inner `C<=over>`. The inner `C<=over>`, in turn, is completely empty, and is treated as such.

`=item` events with an `element_name` of `item-bullet`

See [L</"events with an element\\_name of over-bullet">](#), above.

`=item` events with an `element_name` of `item-number`

See [L</"events with an element\\_name of over-number">](#), above.

`=item` events with an `element_name` of `item-text`

See [L</"events with an element\\_name of over-text">](#), above.

`=item` events with an `element_name` of `for`

TODO...

`=item` events with an `element_name` of `Data`

TODO...

=back

=head1 More Pod::Simple Methods

Pod::Simple provides a lot of methods that aren't generally interesting to the end user of an existing Pod formatter, but some of which you might find useful in writing a Pod formatter. They are listed below. The first several methods (the `accept_*` methods) are for declaring the capabilities of your parser, notably what `C<=for I<targetname>>` sections it's interested in, what extra `NE<lt>...E<gt>` codes it accepts beyond the ones described in the `I<perlpod>`.

=over

=item C<< \$parser->accept\_targets( I<SOMEVALUE> ) >>

As the parser sees sections like:

```
=for html 
```

or

```
=begin html
```

```

```

```
=end html
```

...the parser will ignore these sections unless your subclass has specified that it wants to see sections targeted to "html" (or whatever the formatter name is).

If you want to process all sections, even if they're not targeted for you, call this before you start parsing:

```
$parser->accept_targets('*');
```

=item C<< \$parser->accept\_targets\_as\_text( I<SOMEVALUE> ) >>

This is like `accept_targets`, except that it specifies also that the content of sections for this target should be treated as Pod text even if the target name in `"=for I<targetname>"` doesn't start with a ":".

At time of writing, I don't think you'll need to use this.



```
=item C<< $parser->accept_codes( I<Codename>, I<Codename>... ) >>
```

This tells the parser that you accept additional formatting codes, beyond just the standard ones (I B C L F S X, plus the two weird ones you don't actually see in the parse tree, Z and E). For example, to also accept codes "N", "R", and "W":

```
$parser->accept_codes( qw( N R W ) );
```

B<TODO: document how this interacts with =extend, and long element names>

```
=item C<< $parser->accept_directive_as_data( I<directive_name> ) >>
```

```
=item C<< $parser->accept_directive_as_verbatim( I<directive_name> ) >>
```

```
=item C<< $parser->accept_directive_as_processed( I<directive_name> ) >>
```

In the unlikely situation that you need to tell the parser that you will accept additional directives ("=foo" things), you need to first set the parser to treat its content as data (i.e., not really processed at all), or as verbatim (mostly just expanding tabs), or as processed text (parsing formatting codes like BE<lt>...E<gt>).

For example, to accept a new directive "=method", you'd presumably use:

```
$parser->accept_directive_as_processed("method");
```

so that you could have Pod lines like:

```
=method I<$whatever> thing B<um>
```

Making up your own directives breaks compatibility with other Pod formatters, in a way that using "=for I<target> ..." lines doesn't; however, you may find this useful if you're making a Pod superset format where you don't need to worry about compatibility.

```
=item C<< $parser->nbsp_for_S( I<BOOLEAN> ); >>
```

Setting this attribute to a true value (and by default it is false) will turn "SE<lt>...E<gt>" sequences into sequences of words separated by C<\xA0> (non-breaking space) characters. For example, it will take this:

```
I like S<Dutch apple pie>, don't you?
```

and treat it as if it were:

I like DutchE<nbsp>appleE<nbsp>pie, don't you?

This is handy for output formats that don't have anything quite like an "SE<lt>...E<gt>" code, but which do have a code for non-breaking space.

There is currently no method for going the other way; but I can probably provide one upon request.

```
=item C<< $parser->version_report() >>
```

This returns a string reporting the \$VERSION value from your module (and its classname) as well as the \$VERSION value of Pod::Simple. Note that L<perlpodspec> requires output formats (wherever possible) to note this detail in a comment in the output format. For example, for some kind of SGML output format:

```
print OUT "<!-- \n", $parser->version_report, "\n -->";
```

```
=item C<< $parser->pod_para_count() >>
```

This returns the count of Pod paragraphs seen so far.

```
=item C<< $parser->line_count() >>
```

This is the current line number being parsed. But you might find the "line\_number" event attribute more accurate, when it is present.

```
=item C<< $parser->nix_X_codes( I<SOMEVALUE> ) >>
```

This attribute, when set to a true value (and it is false by default) ignores any "XE<lt>...E<gt>" sequences in the document being parsed. Many formats don't actually use the content of these codes, so have no reason to process them.

```
=item C<< $parser->keep_encoding_directive( I<SOMEVALUE> ) >>
```

This attribute, when set to a true value (it is false by default) will keep C<=encoding> and its content in the event structure. Most formats don't actually need to process the content of an C<=encoding> directive, even when this directive sets the encoding and the processor makes use of the encoding information. Indeed, it is possible to know the encoding without processing the directive

content.

```
=item C<< $parser->merge_text( I<SOMEVALUE> ) >>
```

This attribute, when set to a true value (and it is false by default) makes sure that only one event (or token, or node) will be created for any single contiguous sequence of text. For example, consider this somewhat contrived example:

```
I just LOVE Z<>hotE<32>apple pie!
```

When that is parsed and events are about to be called on it, it may actually seem to be four different text events, one right after another: one event for "I just LOVE ", one for "hot", one for " ", and one for "apple pie!". But if you have `merge_text` on, then you're guaranteed that it will be fired as one text event: "I just LOVE hot apple pie!".

```
=item C<< $parser->code_handler( I<CODE_REF> ) >>
```

This specifies code that should be called when a code line is seen (i.e., a line outside of the Pod). Normally this is `undef`, meaning that no code should be called. If you provide a routine, it should start out like this:

```
sub get_code_line { # or whatever you'll call it
  my($line, $line_number, $parser) = @_ ;
  ...
}
```

Note, however, that sometimes the Pod events aren't processed in exactly the same order as the code lines are -- i.e., if you have a file with Pod, then code, then more Pod, sometimes the code will be processed (via whatever you have `code_handler` call) before the all of the preceding Pod has been processed.

```
=item C<< $parser->cut_handler( I<CODE_REF> ) >>
```

This is just like the `code_handler` attribute, except that it's for "`=cut`" lines, not code lines. The same caveats apply. "`=cut`" lines are unlikely to be interesting, but this is included for completeness.

```
=item C<< $parser->pod_handler( I<CODE_REF> ) >>
```

This is just like the `code_handler` attribute, except that it's for "`=pod`" lines, not code lines. The same caveats apply. "`=pod`" lines are

unlikely to be interesting, but this is included for completeness.

```
=item C<< $parser->whiteline_handler( I<CODE_REF> ) >>
```

This is just like the `code_handler` attribute, except that it's for lines that are seemingly blank but have whitespace (" " and/or "\t") on them, not code lines. The same caveats apply. These lines are unlikely to be interesting, but this is included for completeness.

```
=item C<< $parser->whine( I<linenumber>, I<complaint string> ) >>
```

This notes a problem in the Pod, which will be reported to in the "Pod Errors" section of the document and/or send to `STDERR`, depending on the values of the attributes `C<no_whining>`, `C<no_errata_section>`, and `C<complain_stderr>`.

```
=item C<< $parser->scream( I<linenumber>, I<complaint string> ) >>
```

This notes an error like `C<whine>` does, except that it is not suppressible with `C<no_whining>`. This should be used only for very serious errors.

```
=item C<< $parser->source_dead(1) >>
```

This aborts parsing of the current document, by switching on the flag that indicates that EOF has been seen. In particularly drastic cases, you might want to do this. It's rather nicer than just calling `C<die>!`

```
=item C<< $parser->hide_line_numbers( I<SOMEVALUE> ) >>
```

Some subclasses that indiscriminately dump event attributes (well, except for ones beginning with "~") can use this object attribute for refraining to dump the "start\_line" attribute.

```
=item C<< $parser->no_whining( I<SOMEVALUE> ) >>
```

This attribute, if set to true, will suppress reports of non-fatal error messages. The default value is false, meaning that complaints `I<are>` reported. How they get reported depends on the values of the attributes `C<no_errata_section>` and `C<complain_stderr>`.

```
=item C<< $parser->no_errata_section( I<SOMEVALUE> ) >>
```

This attribute, if set to true, will suppress generation of an errata

section. The default value is false -- i.e., an errata section will be generated.

```
=item C<< $parser->complain_stderr( I<SOMEVALUE> ) >>
```

This attribute, if set to true will send complaints to STDERR. The default value is false -- i.e., complaints do not go to STDERR.

```
=item C<< $parser->bare_output( I<SOMEVALUE> ) >>
```

Some formatter subclasses use this as a flag for whether output should have prologue and epilogue code omitted. For example, setting this to true for an HTML formatter class should omit the "`<html><head><title>...</title><body>...</body></html>`" prologue and the "

If you want to set this to true, you should probably also set `C<no_whining>` or at least `C<no_errata_section>` to true.

```
=item C<< $parser->preserve_whitespace( I<SOMEVALUE> ) >>
```

If you set this attribute to a true value, the parser will try to preserve whitespace in the output. This means that such formatting conventions as two spaces after periods will be preserved by the parser. This is primarily useful for output formats that treat whitespace as significant (such as text or `*roff`, but not HTML).

```
=item C<< $parser->parse_empty_lists( I<SOMEVALUE> ) >>
```

If this attribute is set to true, the parser will not ignore empty `C<=over>/C<=back>` blocks. The type of `C<=over>` will be `I<empty>`, documented above, `L<events with an element_name of over-empty>`.

```
=back
```

```
=head1 SEE ALSO
```

`L<Pod::Simple>` -- event-based Pod-parsing framework

`L<Pod::Simple::Methody>` -- like `Pod::Simple`, but each sort of event calls its own method (like `C<start_head3>`)

`L<Pod::Simple::PullParser>` -- a Pod-parsing framework like `Pod::Simple`, but with a token-stream interface

`L<Pod::Simple::SimpleTree>` -- a Pod-parsing framework like `Pod::Simple`, but with a tree interface

L<Pod::Simple::Checker> -- a simple Pod::Simple subclass that reads documents, and then makes a plaintext report of any errors found in the document

L<Pod::Simple::DumpAsXML> -- for dumping Pod documents as tidily indented XML, showing each event on its own line

L<Pod::Simple::XMLOutputStream> -- dumps a Pod document as XML (without introducing extra whitespace as Pod::Simple::DumpAsXML does).

L<Pod::Simple::DumpAsText> -- for dumping Pod documents as tidily indented text, showing each event on its own line

L<Pod::Simple::LinkSection> -- class for objects representing the values of the TODO and TODO attributes of LE<lt>...E<gt> elements

L<Pod::Escapes> -- the module the Pod::Simple uses for evaluating EE<lt>...E<gt> content

L<Pod::Simple::Text> -- a simple plaintext formatter for Pod

L<Pod::Simple::TextContent> -- like Pod::Simple::Text, but makes no effort for indent or wrap the text being formatted

L<Pod::Simple::HTML> -- a simple HTML formatter for Pod

L<perlpod|perlpod>

L<perlpodspec|perlpodspec>

L<perldoc>

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<<https://github.com/theory/pod-simple/>>. Feel free to fork and contribute, or to clone L<[git://github.com/theory/pod-simple.git](https://github.com/theory/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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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](mailto:sburke@cpan.org)>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item \* Allison Randal C<[allison@perl.org](mailto:allison@perl.org)>

=item \* Hans Dieter Pearcey C<[hdp@cpan.org](mailto:hdp@cpan.org)>

=item \* David E. Wheeler C<[dwheeler@cpan.org](mailto:dwheeler@cpan.org)>

=back

=for notes

Hm, my old podchecker version (1.2) says:

\*\*\* WARNING: node 'http://search.cpan.org/' contains non-escaped | or / at line 38 in file Subclassing.pod

\*\*\* WARNING: node 'http://lists.perl.org/showlist.cgi?name=pod-people' contains non-escaped | or / at line 41 in file Subclassing.pod

Yes, L<...> is hard.

=cut

Found in path(s):

\* /opt/cola/permits/1000849041\_1646171520.95/0/perl-Pod-Simple-3.28-4.el7.src.rpm-cosi-expand-archive-8bV9qtZC/Pod-Simple-3.28.tar.gz-cosi-expand-archive-TIm8aDDs/Pod-Simple-3.28/lib/Pod/Simple/Subclassing.pod

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

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Text>, L<Pod::Spell>

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## =head1 ACKNOWLEDGEMENTS

Thanks to L<[Hurricane Electric|http://he.net/](http://he.net/)> for permission to use its L<[Linux man pages online|http://man.he.net/](http://man.he.net/)> site for man page links.

Thanks to L<[search.cpan.org|http://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](mailto:allison@perl.org)>.

Pod::Simple was created by Sean M. Burke <[sburke@cpan.org](mailto:sburke@cpan.org)>. But don't bother him, he's retired.

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Found in path(s):

\* /opt/cola/permits/1000849041\_1646171520.95/0/perl-Pod-Simple-3.28-4.el7.src.rpm-cosi-expand-archive-8bV9qtZC/Pod-Simple-3.28.tar.gz-cosi-expand-archive-TIm8aDDs/Pod-Simple-3.28/lib/Pod/Simple/XHTML.pm  
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(I<somestring>)`

This changes the tagname for this end-token object.  
You probably won't need to do this.

=item `$token->tag(...)`

A shortcut for `$token->tagname(...)`

=item `$token->is_tag(I<somestring>)` or `$token->is_tagname(I<somestring>)`

These are shortcuts for `C<< $token->tag() eq I<somestring> >>`

=back

You're unlikely to ever need to construct an object of this class for

yourself, but if you want to, call

```
C<<<
Pod::Simple::PullParserEndToken->new( I<tagname> )
>>
```

=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

=head1 SUPPORT

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=cut

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```

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=head1 NAME

perlfaq3 - Programming Tools (\$Revision: 1.38 \$, \$Date: 1999/05/23 16:08:30 \$)

=head1 DESCRIPTION

This section of the FAQ answers questions related to programmer tools and programming support.

=head2 How do I do (anything)?

Have you looked at CPAN (see L<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 perlre, perlfunc, perlop, perllocale  
Moving to perl5 perltrap, perl  
Linking w/C perlxtst, perlxs, perllcall, perlguts, perlembed  
Various <http://www.perl.com/CPAN/doc/FMTEYEWTK/index.html>  
(not a man-page but still useful)

A crude table of contents for the Perl man page set is found in L<perltoc>.

=head2 How can I use Perl interactively?

The typical approach uses the Perl debugger, described in the perldebug(1) man page, on an ``empty" program, like this:

```
perl -de 42
```

Now just type in any legal Perl code, and it will be immediately evaluated. You can also examine the symbol table, get stack

backtraces, check variable values, set breakpoints, and other operations typically found in symbolic debuggers.

=head2 Is there a Perl shell?

In general, no. The Shell.pm module (distributed with Perl) makes Perl try commands which aren't part of the Perl language as shell commands. perlsh from the source distribution is simplistic and uninteresting, but may still be what you want.

=head2 How do I debug my Perl programs?

Have you tried `C<use warnings>` or used `C<-w>`? They enable warnings to detect dubious practices.

Have you tried `C<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 `C<my>`, `C<our>`, or `C<use vars>`.

Did you check the return values of each and every system call? The operating system (and thus Perl) tells you whether they worked, and if not why.

```
open(FH, "> /etc/cantwrite")
  or die "Couldn't write to /etc/cantwrite: $!\n";
```

Did you read `L<perltrap>`? It's full of gotchas for old and new Perl programmers and even has sections for those of you who are upgrading from languages like `I<awk>` and `I<C>`.

Have you tried the Perl debugger, described in `L<perldebug>`? You can step through your program and see what it's doing and thus work out why what it's doing isn't what it should be doing.

=head2 How do I profile my Perl programs?

You should get the `Devel::DProf` module from the standard distribution (or separately on CPAN) and also use `Benchmark.pm` from the standard distribution. The `Benchmark` module lets you time specific portions of your code, while `Devel::DProf` gives detailed breakdowns of where your code spends its time.

Here's a sample use of `Benchmark`:

```
use Benchmark;

@junk = `cat /etc/motd`;
```

```

$count = 10_000;

timethese($count, {
    'map' => sub { my @a = @junk;
        map { s/a/b/ } @a;
        return @a
    },
    'for' => sub { my @a = @junk;
        local $_;
        for (@a) { s/a/b/ };
        return @a },
    });

```

This is what it prints (on one machine--your results will be dependent on your hardware, operating system, and the load on your machine):

```

Benchmark: timing 10000 iterations of for, map...
for:  4 secs ( 3.97 usr  0.01 sys =  3.98 cpu)
map:  6 secs ( 4.97 usr  0.00 sys =  4.97 cpu)

```

Be aware that a good benchmark is very hard to write. It only tests the data you give it and proves little about the differing complexities of contrasting algorithms.

=head2 How do I cross-reference my Perl programs?

The B::Xref module, shipped with the new, alpha-release Perl compiler (not the general distribution prior to the 5.005 release), can be used to generate cross-reference reports for Perl programs.

```
perl -MO=Xref[,OPTIONS] scriptname.plx
```

=head2 Is there a pretty-printer (formatter) for Perl?

There is no program that will reformat Perl as much as indent(1) does for C. The complex feedback between the scanner and the parser (this feedback is what confuses the vgrind and emacs programs) makes it challenging at best to write a stand-alone Perl parser.

Of course, if you simply follow the guidelines in L<perlstyle>, you shouldn't need to reformat. The habit of formatting your code as you write it will help prevent bugs. Your editor can and should help you with this. The perl-mode or newer cperl-mode for emacs can provide remarkable amounts of help with most (but not all) code, and even less programmable editors can provide significant assistance. Tom swears by the following settings in vi and its clones:

```
set ai sw=4
```

map! ^O {^M}^[O^T

Now put that in your F<.exerc> file (replacing the caret characters with control characters) and away you go. In insert mode, ^T is for indenting, ^D is for unindenting, and ^O is for blockindenting-- 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.exerc.gz>

If you are used to using the I<vgrind> program for printing out nice code to a laser printer, you can take a stab at this using <http://www.perl.com/CPAN/doc/misc/tips/working.vgrind.entry>, but the results are not particularly satisfying for sophisticated code.

The a2ps at <http://www.infres.enst.fr/%7Edemaille/a2ps/> does lots of things related to generating nicely printed output of documents.

=head2 Is there a ctags for Perl?

There's a simple one at <http://www.perl.com/CPAN/authors/id/TOMC/scripts/ptags.gz> which may do the trick. And if not, it's easy to hack into what you want.

=head2 Is there an IDE or Windows Perl Editor?

Perl programs are just plain text, so any editor will do.

If you're on Unix, you already have an IDE--Unix itself. The UNIX philosophy is the philosophy of several small tools that each do one thing and do it well. It's like a carpenter's toolbox.

If you want a Windows IDE, check the following:

=over 4

=item CodeMagicCD

<http://www.codemagiccd.com/>

=item Komodo

ActiveState's cross-platform, multi-language IDE has Perl support, including a regular expression debugger and remote debugging (<http://www.ActiveState.com/Products/Komodo/index.html>). (Visual Perl, a Visual Studio.NET plug-in is currently (early 2001) in beta (<http://www.ActiveState.com/Products/VisualPerl/index.html>)).

=item The Object System

([http://www.castlelink.co.uk/object\\_system/](http://www.castlelink.co.uk/object_system/)) is a Perl web applications development IDE.

=item PerlBuilder

(<http://www.solutionsoft.com/perl.htm>) is an integrated development environment for Windows that supports Perl development.

=item Perl code magic

(<http://www.petes-place.com/codemagic.html>).

=item visiPerl+

<http://helpconsulting.net/visiperl/>, from Help Consulting.

=back

For editors: if you're on Unix you probably have vi or a vi clone already, and possibly an emacs too, so you may not need to download anything. In any emacs the cperl-mode (M-x cperl-mode) gives you perhaps the best available Perl editing mode in any editor.

For Windows editors: you can download an Emacs

=over 4

=item GNU Emacs

<http://www.gnu.org/software/emacs/windows/ntemacs.html>

=item MicroEMACS

<http://members.nbc.com/uemacs/>

=item XEmacs

<http://www.xemacs.org/Download/index.html>

=back

or a vi clone such as

=over 4

=item Elvis

<ftp://ftp.cs.pdx.edu/pub/elvis/> <http://www.fh-wedel.de/elvis/>

=item Vile

<http://vile.cx/>

=item Vim

<http://www.vim.org/>

win32: <http://www.cs.vu.nl/%7Etmgil/vi.html>

=back

For vi lovers in general, Windows or elsewhere:

<http://www.thomer.com/thomer/vi/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:

=over 4

=item Codewright

<http://www.starbase.com/>

=item MultiEdit

<http://www.MultiEdit.com/>

=item SlickEdit

<http://www.slickedit.com/>

=back

There is also a toyedit Text widget based editor written in Perl that is distributed with the Tk module on CPAN. The ptkdb (<http://world.std.com/~aep/ptkdb/>) is a Perl/tk based debugger that acts as a development environment of sorts. Perl Composer (<http://perlcomposer.sourceforge.net/vperl.html>) is an IDE for Perl/Tk



GUI creation.

In addition to an editor/IDE you might be interested in a more powerful shell environment for Win32. Your options include

=over 4

=item Bash

from the Cygwin package (<http://sources.redhat.com/cygwin/>)

=item Ksh

from the MKS Toolkit (<http://www.mks.com/>), or the Bourne shell of the U/WIN environment (<http://www.research.att.com/sw/tools/uwin/>)

=item Tcsh

<ftp://ftp.astron.com/pub/tcsh/>, see also  
<http://www.primate.wisc.edu/software/csh-tcsh-book/>

=item Zsh

<ftp://ftp.blarg.net/users/amol/zsh/>, see also <http://www.zsh.org/>

=back

MKS and U/WIN are commercial (U/WIN is free for educational and research purposes), Cygwin is covered by the GNU Public License (but that shouldn't matter for Perl use). The Cygwin, MKS, and U/WIN all contain (in addition to the shells) a comprehensive set of standard UNIX toolkit utilities.

If you're transferring text files between Unix and Windows using FTP be sure to transfer them in ASCII mode so the ends of lines are appropriately converted.

On Mac OS the MacPerl Application comes with a simple 32k text editor that behaves like a rudimentary IDE. In contrast to the MacPerl Application the MPW Perl tool can make use of the MPW Shell itself as an editor (with no 32k limit).

=over 4

=item BBEdit and BBEdit Lite

are text editors for Mac OS that have a Perl sensitivity mode (<http://web.barebones.com/>).

=item Alpha

is an editor, written and extensible in Tcl, that nonetheless has built in support for several popular markup and programming languages including Perl and HTML (<http://alpha.olm.net/>).

=back

Pepper and Pe are programming language sensitive text editors for Mac OS X and BeOS respectively (<http://www.hekkelman.com/>).

=head2 Where can I get Perl macros for vi?

For a complete version of Tom Christiansen's vi configuration file, see [http://www.perl.com/CPAN/authors/Tom\\_Christiansen/scripts/toms.exrc.gz](http://www.perl.com/CPAN/authors/Tom_Christiansen/scripts/toms.exrc.gz), the standard benchmark file for vi emulators. The file runs best with nvi, the current version of vi out of Berkeley, which incidentally can be built with an embedded Perl interpreter--see <http://www.perl.com/CPAN/src/misc>.

=head2 Where can I get perl-mode for emacs?

Since Emacs version 19 patchlevel 22 or so, there have been both a perl-mode.el and support for the Perl debugger built in. These should come with the standard Emacs 19 distribution.

In the Perl source directory, you'll find a directory called "emacs", which contains a cperl-mode that color-codes keywords, provides context-sensitive help, and other nifty things.

Note that the perl-mode of emacs will have fits with C<"main'foo"> (single quote), and mess up the indentation and highlighting. You are probably using C<"main::foo"> in new Perl code anyway, so this shouldn't be an issue.

=head2 How can I use curses with Perl?

The Curses module from CPAN provides a dynamically loadable object module interface to a curses library. A small demo can be found at the directory [http://www.perl.com/CPAN/authors/Tom\\_Christiansen/scripts/rep](http://www.perl.com/CPAN/authors/Tom_Christiansen/scripts/rep); this program repeats a command and updates the screen as needed, rendering B<rep ps axu> similar to B<top>.

=head2 How can I use X or Tk with Perl?

Tk is a completely Perl-based, object-oriented interface to the Tk toolkit that doesn't force you to use Tcl just to get at Tk. Sx is an interface to the Athena Widget set. Both are available from CPAN. See the

directory [http://www.perl.com/CPAN/modules/by-category/08\\_User\\_Interfaces/](http://www.perl.com/CPAN/modules/by-category/08_User_Interfaces/)

Invaluable for Perl/Tk programming are the Perl/Tk FAQ at <http://w4.lns.cornell.edu/%7Epvhp/ptk/ptkTOC.html> , the Perl/Tk Reference Guide available at [http://www.perl.com/CPAN-local/authors/Stephen\\_O\\_Lidie/](http://www.perl.com/CPAN-local/authors/Stephen_O_Lidie/) , and the online manpages at <http://www-users.cs.umn.edu/%7Eamundson/perl/perlTk/toc.html> .

=head2 How can I generate simple menus without using CGI or Tk?

The <http://www.perl.com/CPAN/authors/id/SKUNZ/perlmenu.v4.0.tar.gz> module, which is curses-based, can help with this.

=head2 What is undump?

See the next question on ``How can I make my Perl program run faster?''

=head2 How can I make my Perl program run faster?

The best way to do this is to come up with a better algorithm. This can often make a dramatic difference. Jon Bentley's book ``Programming Pearls" (that's not a misspelling!) has some good tips on optimization, too. Advice on benchmarking boils down to: benchmark and profile to make sure you're optimizing the right part, look for better algorithms instead of microtuning your code, and when all else fails consider just buying faster hardware.

A different approach is to autoload seldom-used Perl code. See the `AutoSplit` and `AutoLoader` modules in the standard distribution for that. Or you could locate the bottleneck and think about writing just that part in C, the way we used to take bottlenecks in C code and write them in assembler. Similar to rewriting in C, modules that have critical sections can be written in C (for instance, the `PDL` module from CPAN).

In some cases, it may be worth it to use the backend compiler to produce byte code (saving compilation time) or compile into C, which will certainly save compilation time and sometimes a small amount (but not much) execution time. See the question about compiling your Perl programs for more on the compiler--the wins aren't as obvious as you'd hope.

If you're currently linking your perl executable to a shared `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 `F<INSTALL>` file in the source distribution for more

information.

Unsubstantiated reports allege that Perl interpreters that use `sfio` outperform those that don't (for I/O intensive applications). To try this, see the `F<INSTALL>` file in the source distribution, especially the ``Selecting File I/O mechanisms" section.

The `undump` program was an old attempt to speed up your Perl program by storing the already-compiled form to disk. This is no longer a viable option, as it only worked on a few architectures, and wasn't a good solution anyway.

=head2 How can I make my Perl program take less memory?

When it comes to time-space tradeoffs, Perl nearly always prefers to throw memory at a problem. Scalars in Perl use more memory than strings in C, arrays take more than that, and hashes use even more. While there's still a lot to be done, recent releases have been addressing these issues. For example, as of 5.004, duplicate hash keys are shared amongst all hashes using them, so require no reallocation.

In some cases, using `substr()` or `vec()` to simulate arrays can be highly beneficial. For example, an array of a thousand booleans will take at least 20,000 bytes of space, but it can be turned into one 125-byte bit vector--a considerable memory savings. The standard `Tie::SubstrHash` module can also help for certain types of data structure. If you're working with specialist data structures (matrices, for instance) modules that implement these in C may use less memory than equivalent Perl modules.

Another thing to try is learning whether your Perl was compiled with the system `malloc` or with Perl's builtin `malloc`. Whichever one it is, try using the other one and see whether this makes a difference. Information about `malloc` is in the `F<INSTALL>` file in the source distribution. You can find out whether you are using perl's `malloc` by typing `C<perl -V:usemymalloc>`.

=head2 Is it unsafe to return a pointer to local data?

No, Perl's garbage collection system takes care of this.

```
sub makeone {
    my @a = ( 1 .. 10 );
    return \@a;
}

for $i ( 1 .. 10 ) {
    push @many, makeone();
}
```

```
}  
  
print $many[4][5], "\n";  
  
print "@many\n";
```

=head2 How can I free an array or hash so my program shrinks?

You can't. On most operating systems, memory allocated to a program can never be returned to the system. That's why long-running programs sometimes re-exec themselves. Some operating systems (notably, FreeBSD and Linux) allegedly reclaim large chunks of memory that is no longer used, but it doesn't appear to happen with Perl (yet). The Mac appears to be the only platform that will reliably (albeit, slowly) return memory to the OS.

We've had reports that on Linux (Redhat 5.1) on Intel, C<undef \$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.

=head2 How can I make my CGI script more efficient?

Beyond the normal measures described to make general Perl programs faster or smaller, a CGI program has additional issues. It may be run several times per second. Given that each time it runs it will need to be re-compiled and will often allocate a megabyte or more of system memory, this can be a killer. Compiling into C B<isn't going to help you> because the process start-up overhead is where the bottleneck is.

There are two popular ways to avoid this overhead. One solution involves running the Apache HTTP server (available from <http://www.apache.org/>) with either of the mod\_perl or mod\_fastcgi plugin modules.

With mod\_perl and the Apache::Registry module (distributed with mod\_perl), httpd will run with an embedded Perl interpreter which pre-compiles your script and then executes it within the same address space without forking. The Apache extension also gives Perl access to the internal server API, so modules written in Perl can do just about

anything a module written in C can. For more on mod\_perl, see <http://perl.apache.org/>

With the FCGI module (from CPAN) and the mod\_fastcgi module (available from <http://www.fastcgi.com/>) each of your Perl programs becomes a permanent CGI daemon process.

Both of these solutions can have far-reaching effects on your system and on the way you write your CGI programs, so investigate them with care.

See [http://www.perl.com/CPAN/modules/by-category/15\\_World\\_Wide\\_Web\\_HTML\\_HTTP\\_CGI/](http://www.perl.com/CPAN/modules/by-category/15_World_Wide_Web_HTML_HTTP_CGI/).

A non-free, commercial product, "The Velocity Engine for Perl", (<http://www.binevolve.com/> or <http://www.binevolve.com/velocigen/>) might also be worth looking at. It will allow you to increase the performance of your Perl programs, running programs up to 25 times faster than normal CGI Perl when running in persistent Perl mode or 4 to 5 times faster without any modification to your existing CGI programs. Fully functional evaluation copies are available from the web site.

=head2 How can I hide the source for my Perl program?

Delete it. :-) Seriously, there are a number of (mostly unsatisfactory) solutions with varying levels of "security".

First of all, however, you I<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 definitely conceal it (true of every

language, not just Perl).

If you're concerned about people profiting from your code, then the bottom line is that nothing but a restrictive license will give you legal security. License your software and pepper it with threatening statements like "This is unpublished proprietary software of XYZ Corp. Your access to it does not give you permission to use it blah blah blah." We are not lawyers, of course, so you should see a lawyer if you want to be sure your license's wording will stand up in court.

**How can I compile my Perl program into byte code or C?**

Malcolm Beattie has written a multifunction backend compiler, available from CPAN, that can do both these things. It is included in the perl5.005 release, but is still considered experimental. This means it's fun to play with if you're a programmer but not really for people looking for turn-key solutions.

Merely compiling into C does not in and of itself guarantee that your code will run very much faster. That's because except for lucky cases where a lot of native type inferencing is possible, the normal Perl run-time system is still present and so your program will take just as long to run and be just as big. Most programs save little more than compilation time, leaving execution no more than 10-30% faster. A few rare programs actually benefit significantly (even running several times faster), but this takes some tweaking of your code.

You'll probably be astonished to learn that the current version of the compiler generates a compiled form of your script whose executable is just as big as the original perl executable, and then some. That's because as currently written, all programs are prepared for a full eval() statement. You can tremendously reduce this cost by building a shared libperl.so library and linking against that. See the INSTALL podfile in the Perl source distribution for details. If you link your main perl binary with this, it will make it minuscule. For example, on one author's system, /usr/bin/perl is only 11k in size!

In general, the compiler will do nothing to make a Perl program smaller, faster, more portable, or more secure. In fact, it can make your situation worse. The executable will be bigger, your VM system may take longer to load the whole thing, the binary is fragile and hard to fix, and compilation never stopped software piracy in the form of crackers, viruses, or bootleggers. The real advantage of the compiler is merely packaging, and once you see the size of what it makes (well, unless you use a shared libperl.so), you'll probably want a complete Perl install anyway.

=head2 How can I compile Perl into Java?

You can also integrate Java and Perl with the Perl Resource Kit from O'Reilly and Associates. See <http://www.oreilly.com/catalog/prkunix/>.

Perl 5.6 comes with Java Perl Lingo, or JPL. JPL, still in development, allows Perl code to be called from Java. See [jpl/README](#) in the Perl source tree.

=head2 How can I get C<#!perl> to work on [MS-DOS,NT,...]?

For OS/2 just use

```
extproc perl -S -your_switches
```

as the first line in C<\*.cmd> file (C<-S> due to a bug in cmd.exe's `extproc' handling). For DOS one should first invent a corresponding batch file and codify it in C<ALTERNATIVE\_SHEBANG> (see the F<INSTALL> file in the source distribution for more information).

The Win95/NT installation, when using the ActiveState port of Perl, will modify the Registry to associate the C<.pl> extension with the perl interpreter. If you install another port, perhaps even building your own Win95/NT Perl from the standard sources by using a Windows port of gcc (e.g., with cygwin or mingw32), then you'll have to modify the Registry yourself. In addition to associating C<.pl> with the interpreter, NT people can use: C<SET PATHEXT=%PATHEXT%;.PL> to let them run the program C<install-linux.pl> merely by typing C<install-linux>.

Macintosh Perl programs will have the appropriate Creator and Type, so that double-clicking them will invoke the Perl application.

I<IMPORTANT!>: Whatever you do, PLEASE don't get frustrated, and just throw the perl interpreter into your cgi-bin directory, in order to get your programs working for a web server. This is an EXTREMELY big security risk. Take the time to figure out how to do it correctly.

=head2 Can I write useful Perl programs on the command line?

Yes. Read L<perlrunc> for more information. Some examples follow. (These assume standard Unix shell quoting rules.)

```
# sum first and last fields
perl -lane 'print $F[0] + $F[-1]' *

# identify text files
perl -le 'for(@ARGV) {print if -f && -T _}' *
```



```

# remove (most) comments from C program
perl -0777 -pe 's{^\s*.*?/\s*}gs' foo.c

# make file a month younger than today, defeating reaper daemons
perl -e '$X=24*60*60; utime(time(),time() + 30 * $X,@ARGV) *

# find first unused uid
perl -le '$i++ while getpwuid($i); print $i'

# display reasonable manpath
echo $PATH | perl -nl -072 -e '
s![^/+]*$!man!&&-d&&!$s{$_}++&&push@m,$_;END{print"@m"}'

```

OK, the last one was actually an Obfuscated Perl Contest entry. :-)

=head2 Why don't Perl one-liners work on my DOS/Mac/VMS system?

The problem is usually that the command interpreters on those systems have rather different ideas about quoting than the Unix shells under which the one-liners were created. On some systems, you may have to change single-quotes to double ones, which you must I<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.]

=head2 Where can I learn about CGI or Web programming in Perl?

For modules, get the CGI or LWP modules from CPAN. For textbooks, see the two especially dedicated to web stuff in the question on books. For problems and questions related to the web, like ``Why do I get 500 Errors" or ``Why doesn't it run from the browser right when it runs fine on the command line", see these sources:

WWW Security FAQ

<http://www.w3.org/Security/Faq/>

Web FAQ

<http://www.boutell.com/faq/>

CGI FAQ

<http://www.webthing.com/tutorials/cgifaq.html>

HTTP Spec

<http://www.w3.org/pub/WWW/Protocols/HTTP/>

HTML Spec

<http://www.w3.org/TR/REC-html40/>

<http://www.w3.org/pub/WWW/MarkUp/>

CGI Spec

<http://www.w3.org/CGI/>

CGI Security FAQ

<http://www.go2net.com/people/paulp/cgi-security/safe-cgi.txt>

=head2 Where can I learn about object-oriented Perl programming?

A good place to start is L<perltoot>, and you can use L<perlobj>, L<perlboot>, and L<perlbot> for reference. 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/> .

=head2 Where can I learn about linking C with Perl? [h2xs, xsubpp]

If you want to call C from Perl, start with L<perlxsstut>, moving on to L<perlxs>, L<xsubpp>, and L<perlguts>. If you want to call Perl from C, then read L<perlembed>, L<perlcall>, and L<perlguts>. Don't forget that you can learn a lot from looking at how the authors of existing extension modules wrote their code and solved their problems.

=head2 I've read perlembed, 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 L<perlbug> and send a bug report with the output of C<make test TEST\_VERBOSE=1> along with C<perl -V>.

=head2 When I tried to run my script, I got this message. What does it mean?

A complete list of Perl's error messages and warnings with explanatory text can be found in L<perldiag>. You can also use the splain program (distributed with Perl) to explain the error messages:

```
perl program 2>diag.out
splain [-v] [-p] diag.out
```

or change your program to explain the messages for you:

```
use diagnostics;
```

or

```
use diagnostics -verbose;
```

=head2 What's MakeMaker?

This module (part of the standard Perl distribution) is designed to write a Makefile for an extension module from a Makefile.PL. For more information, see L<ExtUtils::MakeMaker>.

=head1 AUTHOR AND COPYRIGHT

Copyright (c) 1997-1999 Tom Christiansen and Nathan Torkington.  
All rights reserved.

When included as an integrated part of the Standard Distribution of Perl or of its documentation (printed or otherwise), this works is

covered under Perl's Artistic License. For separate distributions of all or part of this FAQ outside of that, see [L<perlfaq>](#).

Irrespective of its distribution, all code examples here are in the public domain. You are permitted and encouraged to use this code and any derivatives thereof in your own programs for fun or for profit as you see fit. A simple comment in the code giving credit to the FAQ would be courteous but is not required.

Found in path(s):

```
* /opt/cola/permits/1000849041_1646171520.95/0/perl-Pod-Simple-3.28-4.el7.src.rpm-cosi-expand-archive-8bV9qtZC/Pod-Simple-3.28.tar.gz-cosi-expand-archive-TIm8aDDs/Pod-Simple-3.28/t/perlfaq.pod
```

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

=head1 NAME

Pod::Simple::Checker -- check the Pod syntax of a document

=head1 SYNOPSIS

```
perl -MPod::Simple::Checker -e \  
"exit Pod::Simple::Checker->filter(shift)->any_errata_seen" \  
thingy.pod
```

=head1 DESCRIPTION

This class is for checking the syntactic validity of Pod. It works by basically acting like a simple-minded version of [L<Pod::Simple::Text>](#) that formats only the "Pod Errors" section (if Pod::Simple even generates one for the given document).

This is a subclass of [L<Pod::Simple>](#) and inherits all its methods.

=head1 SEE ALSO

[L<Pod::Simple>](#), [L<Pod::Simple::Text>](#), [L<Pod::Checker>](#)

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the [pod-people@perl.org](mailto:pod-people@perl.org) mail list. Send an empty email to [pod-people-subscribe@perl.org](mailto:pod-people-subscribe@perl.org) to subscribe.

This module is managed in an open GitHub repository, [L<https://github.com/theory/pod-simple/>](https://github.com/theory/pod-simple/). Feel free to fork and contribute, or to clone [L<git://github.com/theory/pod-simple.git>](https://github.com/theory/pod-simple.git) and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to

<bug-pod-simple@rt.cpan.org>.

=head1 COPYRIGHT AND DISCLAIMERS

Copyright (c) 2002 Sean M. Burke.

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

This program is distributed in the hope that it will be useful, but without any warranty; without even the implied warranty of merchantability or fitness for a particular purpose.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>.  
But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item \* Allison Randal C<allison@perl.org>

=item \* Hans Dieter Pearcey C<hdp@cpan.org>

=item \* David E. Wheeler C<dwheeler@cpan.org>

=back

=cut

Found in path(s):

\* /opt/cola/permits/1000849041\_1646171520.95/0/perl-Pod-Simple-3.28-4.el7.src.rpm-cosi-expand-archive-8bV9qtZC/Pod-Simple-3.28.tar.gz-cosi-expand-archive-TIm8aDDs/Pod-Simple-3.28/lib/Pod/Simple/Checker.pm  
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 an underscore in its place. For example, "`foo.bar:baz`" becomes `start_foo_bar_baz`

and end\_foo\_bar\_baz.

See the source for Pod::Simple::Text for an example of using this class.

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Subclassing>

=head1 SUPPORT

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/theory/pod-simple/>>. Feel free to fork and contribute, or to clone L<[git://github.com/theory/pod-simple.git](https://github.com/theory/pod-simple.git)> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <[bug-pod-simple@rt.cpan.org](mailto:bug-pod-simple@rt.cpan.org)>.

=head1 COPYRIGHT AND DISCLAIMERS

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=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <[sburke@cpan.org](mailto:sburke@cpan.org)>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item \* Allison Randal C<[allison@perl.org](mailto:allison@perl.org)>

=item \* Hans Dieter Pearcey C<[hdp@cpan.org](mailto:hdp@cpan.org)>

=item \* David E. Wheeler C<[dwheeler@cpan.org](mailto:dwheeler@cpan.org)>

=back

=cut

Found in path(s):

\* /opt/cola/permits/1000849041\_1646171520.95/0/perl-Pod-Simple-3.28-4.el7.src.rpm-cosi-expand-archive-8bV9qtZC/Pod-Simple-3.28.tar.gz-cosi-expand-archive-TIm8aDDs/Pod-Simple-3.28/lib/Pod/Simple/Methody.pm

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

=head1 NAME

Pod::Simple::XMLOutputStream -- turn Pod into XML

=head1 SYNOPSIS

```
perl -MPod::Simple::XMLOutputStream -e \  
"exit Pod::Simple::XMLOutputStream->filter(shift)->any_errata_seen" \  
thingy.pod
```

=head1 DESCRIPTION

Pod::Simple::XMLOutputStream is a subclass of L<Pod::Simple> that parses Pod and turns it into XML.

Pod::Simple::XMLOutputStream inherits methods from L<Pod::Simple>.

=head1 SEE ALSO

L<Pod::Simple::DumpAsXML> is rather like this class; see its documentation for a discussion of the differences.

L<Pod::Simple>, L<Pod::Simple::DumpAsXML>, L<Pod::SAX>

L<Pod::Simple::Subclassing>

The older (and possibly obsolete) libraries L<Pod::PXML>, L<Pod::XML>

=head1 ABOUT EXTENDING POD

TODO: An example or two of =extend, then point to Pod::Simple::Subclassing

=head1 ASK ME!

If you actually want to use Pod as a format that you want to render to XML (particularly if to an XML instance with more elements than normal



Pod has), please email me (C<[sburke@cpan.org](mailto:sburke@cpan.org)>) and I'll probably have some recommendations.

For reasons of concision and energetic laziness, some methods and options in this module (and the dozen modules it depends on) are undocumented; but one of those undocumented bits might be just what you're looking for.

=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](mailto:pod-people@perl.org) mail list. Send an empty email to [pod-people-subscribe@perl.org](mailto:pod-people-subscribe@perl.org) to subscribe.

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=back

=cut

Found in path(s):

\* /opt/cola/permits/1000849041\_1646171520.95/0/perl-Pod-Simple-3.28-4.el7.src.rpm-cosi-expand-archive-8bV9qtZC/Pod-Simple-3.28.tar.gz-cosi-expand-archive-TIm8aDDs/Pod-Simple-3.28/lib/Pod/Simple/XMLOutputStream.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...
```

```
}
```

=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::Subclassing>

=head1 SUPPORT

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=back

=cut

Found in path(s):

```
* /opt/cola/permits/1000849041_1646171520.95/0/perl-Pod-Simple-3.28-4.el7.src.rpm-cosi-expand-archive-8bV9qtZC/Pod-Simple-3.28.tar.gz-cosi-expand-archive-TIm8aDDs/Pod-Simple-3.28/lib/Pod/Simple/PullParserTextToken.pm
```

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

```
sub dump { [' . _esc( @{ $_[0] ) . ' ] }
```

```
# JUNK:
```

```
sub _esc {
    return " unless @_ ;
    my @out;
    foreach my $in ( @_ ) {
        push @out, "" . $in . "";
        $out[-1] =~ s/([^\s:;.,\|><\"\\|=?|+|\\[\\]{}|_a-zA-Z0-9_\\`~|!#%\\^&|*(|)]/
            sprintf( (ord($1) < 256) ? "\\x%02X" : "\\x{%X}", ord($1)
        /eg;
    }
    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 "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" >>`

=item \$token->is\_end

This is a shortcut for `C<< $token->type() eq "end" >>`

=item \$token->dump

This returns a handy stringified value of this object. This is useful for debugging, as in:

```
while(my $token = $parser->get_token) {
    $DEBUG and print "Token: ", $token->dump, "\n";
    ...
}
```

=back

=head1 SEE ALSO

My subclasses:

L<Pod::Simple::PullParserStartToken>,  
L<Pod::Simple::PullParserTextToken>, and  
L<Pod::Simple::PullParserEndToken>.

L<Pod::Simple::PullParser> and L<Pod::Simple>

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Found in path(s):

\* /opt/cola/permits/1000849041\_1646171520.95/0/perl-Pod-Simple-3.28-4.el7.src.rpm-cosi-expand-archive-8bV9qtZC/Pod-Simple-3.28.tar.gz-cosi-expand-archive-TIm8aDDs/Pod-Simple-3.28/lib/Pod/Simple/PullParserToken.pm

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

=head1 NAME

Pod::Simple::RTF -- format Pod as RTF

=head1 SYNOPSIS

```
perl -MPod::Simple::RTF -e \  
"exit Pod::Simple::RTF->filter(shift)->any_errata_seen" \  
thingy.pod > thingy.rtf
```

=head1 DESCRIPTION

This class is a formatter that takes Pod and renders it as RTF, good for viewing/printing in MSWord, WordPad/write.exe, TextEdit, etc.

This is a subclass of L<Pod::Simple> and inherits all its methods.

## =head1 FORMAT CONTROL ATTRIBUTES

You can set these attributes on the parser object before you call `C<parse_file>` (or a similar method) on it:

=over

=item `$parser->head1_halfpoint_size( I<halfpoint_integer> );`

=item `$parser->head2_halfpoint_size( I<halfpoint_integer> );`

=item `$parser->head3_halfpoint_size( I<halfpoint_integer> );`

=item `$parser->head4_halfpoint_size( I<halfpoint_integer> );`

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)

=back

If you are particularly interested in customizing this module's output even more, see the source and/or write to me.

=head1 SEE ALSO

L<Pod::Simple>, L<RTF::Writer>, L<RTF::Cookbook>, L<RTF::Document>, L<RTF::Generator>

=head1 SUPPORT

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Found in path(s):

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

# ChangeLog for Pod::Simple dist

#-----

2013-05-04 David E. Wheeler <david@justatheory.org>  
\* Release 3.28

Removed use of 'done\_testing' in t/white.t, which was added in v3.27. Thanks to Paul Howarth for the catch.

Fixed improperly calculated number of skipped tests in t/html01.t when HTML::Entities is not intalled.

2013-05-03 David E. Wheeler <david@justatheory.org>  
\* Release 3.27

Added new warnings as defined by Pod::Checker, thanks to RJBS:  
+ "=over" without "=back"  
+ "L<>" starts or ends with whitespace  
+ raw "|" or "/" in "L<text|link>" text

Added `->keep_encoding_directive`, which is false by default, to prevent formatters from emitting a document's `'=encoding'` directive in most cases. That they emitted the encoding was a bug introduced in v3.26 (RT #84093). Now, only the `DumpAsText` and `DumpAsXML` formats set it to true. Patch from Patrice Dumas.

2013-02-27 David E. Wheeler <david@justatheory.org>  
\* Release 3.26

Fixed another test script to skip all tests when `Encode` is not installed.

Added `'encoding()'` and `'detected_encoding()'` to return the current encoding and the encoding actually to decode the input file. The value from `"=encoding"` is also now kept in the output tree. Patch from Patrice Dumas (RT #74390).

2013-02-16 David E. Wheeler <david@justatheory.org>  
\* Release 3.25

Improved the warning when `"=item"` types mismatch within one `"=over"/"=back"` block.

2013-02-14 David E. Wheeler <david@justatheory.org>  
\* Release 3.24

Fixed corner case bug for unlikely scenario in which non-UTF-8 text could be parsed as UTF-8. Grant McLean.

XHTML IDs can no longer end with punctuation. Thanks to Smylers for the patch.

Fixed test failure on Perl 5.6.2.

Changed the default installation location from `"perl"` to `"site"` on 5.12 and higher, since as of that version of Perl, dual-life modules no longer need to be installed in `"perl"` to replace in-core versions. Patch from tzccinct.

Fixed hash order dependency test failures on Perl 5.17. Thanks to Yves Orton for the patch.

Inlined the code that tries to guess a Pod file's encoding. This reduces the time `Pod::Simple` takes to build the core Perl documentation by 15-20%. Thanks to Dagfinn Ilmari Mannsker for the patch!

Added a warning when `"=item"` types mismatch within one

"=over"/"=back" block. Marc Green/Google Summer of Code, with assist from RJBS.

Fixed regression introduced in 3.22 in which "C<>" tags were incorrectly treated as verbatim text in table of contents items emitted by Pod::Simple::XHTML. Thanks to Randy Stauner for the report and to Thomas Sibley for the fix!

Loosened up the matching of "L<>" tags for man pages so that they allow names with dots, underscores, and any other characters other than "/", just so long as they end in '[(][-a-zA-Z0-9]+)']'. Thanks to Dave Rolsky and Kevin Ryde for the reports (RT #82975 & RT #82972).

Fixed inverted mapping of "keyboard" to "kbd" in Pod::Simple::HTML. Thanks to Robert Boisvert for the bug report (RT #79201).

Added two new Tagmap entries to Pod::Simple::HTML: "preformat" maps to "pre", and "teletype" maps to "tt". Suggested by Robert Boisvert (RT #79201).

"X<>" tags are now ignored by the pull parser when it searches for titles, as is any trailing whitespace. Thanks to Patrice Dumas for the report (RT #74389).

2012-08-14 David E. Wheeler <david@justatheory.org>  
\* Release 3.23

Eliminated nested elements in table of contents (index) items output of Pod::Simple::XHTML. This was especially problematic for headers that included links, as the TOC then got nested anchor elements, which simply would not work. Thanks to Ben Bullock for the report and test case (RT #77686).

Fixed semantically invalid nested XHTML generated by Pod::Simple::XHTML since v3.21. Gisle Aas.

Improved support for nested "C<>" tags in Pod::Simple::XHTML. Gisle Aas.

No longer tries to decode a string with the "utf8" flag set, as the double-decoding only triggered an error. Grant McLean.

Added documentation note that the API expects encoded text (octets). Grant McLean.

Added "parse\_characters()" option to specify that strings to are

already decoded from octets into characters. Grant McLean.

2012-05-27 David E. Wheeler <david@justatheory.org>  
\* Release 3.22

Fix but where Pod::Simple would whine about non-ASCII bytes in code or comments. Now only does so for Pod (in the absence of an "=encoding" tag. Broken in 3.21. Grant McLean.

2012-05-23 David E. Wheeler <david@justatheory.org>  
\* Release 3.21

NOTE: COMPATABILITY CHANGE: The 'codes\_in\_verbatim' option in Pod::Simple::XHTML is no longer enabled by default. This brings it agreement with the other formatting classes, and eliminates unexpected behavior in XHTML-formatted Pod. Users who depended on this functionality can still get it by enabling 'codes\_in\_verbatim' in their code.

Fixed some typos in the documentation. Thanks to Jonathan Yu via the Debian packagers via Florian Ragwitz (RT #75532).

Now emit a warning the first time a non-ASCII byte is encountered when no "=encoding" has been seen. Grant McLean.

When a non-ASCII byte is encountered before an "=encoding" line has been seen, a heuristic (as described in perlpodspec) is applied to select UTF-8 encoding if the non-ASCII bytes form a valid UTF-8 byte sequence, or Latin-1 otherwise. Grant McLean.

Added 'handle\_code' method to Pod::Simple::XHTML. This allows subclasses to override the handling of verbatim blocks, and makes for a more cohesive interface, to boot. Gisle Aas.

Subsequent text segments are now joined together and passed as a single unit to text handling code. This makes it easier for custom handlers to process complete blocks of text in a single call to 'handle\_text', rather than in dribs and drabs. Gisle Aas.

Replaced naive text wrapping code in Pod::Simple::DumpAsXML with Text::Wrap, which was already used for similar purposes elsewhere in Pod::Simple. Gisle Aas.

2012-03-01 David E. Wheeler <david@justatheory.org>  
\* Release 3.20

Removed use of 'done\_testing' in t/xhtml15.t, which was added in v3.19. Thanks to Paul Howarth for the catch.

Fixed quoting of links in a regular expression Pod::Simple::Text.  
Reported by Father Chrysostomos.

Fix test failure on case-insensitive, non-case-preserving file systems  
(VMS I'm looking at \*you\*). Patch from Craig A. Berry.

Pod::Simple::HTML no longer emits "href=#\_\_top" if a TOC  
(index) is not output. Patch from Rick Myers.

Fixed links in the TOC of XHTML output to use IDs derived from encoded  
text, rather than raw Pod, so that it will link to the ID actually  
generated for the section. Thanks to Randy Stauner for the report  
(with test case!) (RT #72544).

PullParser now throws an exception on an attempt to set a source  
more than once. Necessary because data from the previous source  
will be cached, so the new source would be ignored anyway. Create a  
new PullParser, instead. Thanks to Paul Boldra for the report (RT  
#74265).

2011-08-23 David E. Wheeler <david@justatheory.org>  
\* Release 3.19

Fixed occasional test failure when tests are run in parallel  
(HARNESS\_OPTIONS=j6:c). Thanks to Alexei Znamensky for the report and  
Marc Green for the fix.

Added "pod\_handler" option. This is a callback that can be used to  
inspect the content on a "=pod" line. Marc Green/Google Summer of  
Code.

Added tests for proper line-ending parsing from the previous  
release. The tests were in the repository, but didn't make it into  
the MANIFEST or, therefore, the release. Reported by Marc Green.

Added the "parse\_empty\_lists" option. When enabled, Pod::Simple  
will recognize empty lists (that is, a blocks with '=over' and  
'=back' but nothing in between). Disabled by default. Marc  
Green/Google Summer of Code.

Added the "whiteline\_handler" attribute. It's much like  
"code\_handler", "cut\_handler", and "pod\_handler", except it's  
triggered on lines that contain only whitespace characters. Marc  
Green/Google Summer of Code.

Added "raw" attribute to L<> treelet that contains the L<>'s raw  
contents. Marc Green/Google Summer of Code.

Pod directives autoclosed by Pod::Simple are now denoted as such by the new "fake\_closer" attribute. Marc Green/Google Summer of Code.

Fixed incompatibility with Pod::Simple::HTMLBatch in Pod::Simple::XHTML. Patch by Eric Johnson.

2011-07-16 David E. Wheeler <david@justatheory.org>  
\* Release 3.18

Pod::Simple now properly parses Pod files using Mac OS Classic line-endings (r). Marc Green/Google Summer of Code.

Fixed test failure in 't/search50.t' when the test finds a .pod but the module is in a .pm. Thanks to the cpan-testers who reported this when the test searched for Capture::Tiny.

2011-07-09 David E. Wheeler <david@justatheory.org>  
\* Release 3.17

Documented tertiary methods. Patch from Shawn H Corey.

Added "backlink" option to Pod::Simple::XHTML. Thanks to Marc Green/Google Summer of Code for the pull request.

Typos fixed in Pod::Simple::HTMLBatch. Reported by Shawn H Corey.

Fixed quoting of value returned by a "strip\_verbatim\_indent()" code reference so that regex meta characters are properly escaped.

Added "anchor\_items" option to Pod::Simple::XHMTL. This allows text items (which are output as <dt> elements) to have IDs that can be referenced in the "#" part of a URL. Marc Green/Google Summer of Code.

Added "recurse" option to Pod::Simple::Search. It's enabled by default; disable it to turn off recursion into subdirectories. Marc Green/Google Summer of Code.

Added documentation to clarify the behavior of the "content\_seen" method. Thanks to Olaf Alders for the pull request.

2011-03-14 David E. Wheeler <david@justatheory.org>  
\* Release 3.16

Fixed invalid HTML generated for nested lists by Pod::Simple::XHTML (Fitz Elliott).

Replaced the invalid "<nobr>" tag -- created for "S<>" -- with '<span style="white-space: nowrap;">' (Fitz Elliott).

Fixed some nerbles in our own Pod (Michael Stevens)

Improved the "Minimal code" example in Pod::Simple::HTML. The key is to use `pase_file()`, not `parse_from_file()` (which should otherwise be undocumented, and is just there for Pod::Parser compatibility. Thanks to prodding from var Arnfjr Bjarmason (RT #65428).

Added the `html_charset()` and `html_encode_chars()` attributes to Pod::Simple::XHTML. Inspired by a bug report from Agent Zhang () (RT #29587).

Added "Minimal code" example to the Pod::Simple::XHTML documentation.

Fixed misspelling of the "`=encoding`" markup in the parser (it was spelled "`=encode`"). Thanks to "TTY" for the patch. (RT #24820).

2010-11-11 David E. Wheeler <david@justatheory.org>

\* Release 3.15

Removed "perlpod.pod" and "perlpodspec.pod". These now just live in the Perl core.

Fixed stylesheet names output by HTMLBatch to match the names of the actual stylesheet files (broken in 3.09). Thanks to Kevin Ryde for the report (RT #56725).

Added missing closing slash to the CSS links in the XHTML output. Thanks to HarleyPig for the patch!

Added parens around bar "qw(...)" in `t/xhtmll05.t`. Thanks to Jerry D. Hedden for the patch.

Improved the Pod::Simple::HTML docs. Thanks to Gabor Szabo for the patch.

Pod::Simple::XHTML now properly encodes entities in URLs in the anchor tag. Thanks to John McNamara for the report (RT-60249).

Pod::Simple::HTML and XHTML now strip whitespace from the end of section names that appear as anchor names for headers (in HTML) and IDs (in XHTML). Such whitespace appeared when "X<>" entities were stripped out but not the space between them (RT-56572).



Make test "t/search50.t" always pass on case-insensitive file systems rather than just skip VMS.

2009-04-27

\* Release 3.14

Removed explicit loading of UNIVERSAL. RJBS.

Reversed the change applied in release 3.09 to fix RT #12239. POD tag found inside a complex POD tag (e.g., "C<<< I<foo> >>>") is again parsed as a tag embedded in a tag instead of text and entities. The previous interpretation of `perldoc perlpod` was mistaken. (RT #55602 from Christopher J. Madsen).

2009-12-17 David E. Wheeler <david@justatheory.org>

\* Release 3.13

Removed deleted test file from MANIFEST.

2009-12-17 David E. Wheeler <david@justatheory.org>

\* Release 3.12

Removed "All rights reserved" from all files.

Added acknowledgements to man.he.net and search.cpan.org for permission to link man pages and Perl module links to their sites in the output of Pod::Simple::HTML and Pod::Simple::XHTML.

Add "html\_h\_level" option to Pod::Simple::XHTML and ::HTML to allow a =head1 to become an <h2> and so on. RJBS.

Add batch\_mode\_page\_object\_init() method to Pod::Simple::XHTML. This allows it to be used by Pod::Simple::HTMLBatch.

Fixed a regression in Pod::Simple::XHTML where '=begin html' blocks were incorrectly escaped rather than simply passed through unmolested. RJBS.

Removed the undocumented "fullstop\_space\_harden" attribute, which apparently was only used by Pod::Text a very long time ago.

2009-12-09 David E. Wheeler <david@justatheory.org>

\* Release 3.11

Restored code to HTMLBatch that allows the TOC (index) to be created in batch jobs (RT #52324 from Martin J. Evans).

Added resources to META.yml, including bug tracker, license, and

repository.

Turned man page links into links to man.he.net in Pod::Simple::HTML and Pod::Simple::XHTML output. Subclass and override resolve\_man\_page\_link() to use a different URL.

Added the resolve\_pod\_page\_link() and resolve\_man\_page\_link() methods to Pod::Simple::XHTML to make it easier for subclasses to change the URLs created for POD and man page links.

Fixed the output of entities in L<> tags by Pod::Simple::XHTML.

Fixed the output of POD links from Pod::Simple::XHTML so that the section part (/foo) is turned into a proper fragment identifier (#foo) in the resulting search.cpan.org link.

Pod::Simple::Text now outputs URLs for links created in the L<text|URL> format. For example, L<Perl|http://perl.org> is now output as "Perl <http://perl.org>" rather than just as "Perl".

Updated perlpod.pod and perlpodspec.pod to sync up with Perl core (and to be released in Perl 5.12). Changes include:

- \* Removing the prohibition against L<text|href>
- \* Deprecation of L<section> and L<"section">
- \* Legalization of "=begin formatname parameter"

A couple of bug fixes in Pod::Simple::HTML from Graham Barr.

Added the do\_section() method to Pod::Simple::HTML. Graham Barr.

Word-smithed the "DESCRIPTION" a bit and wrote the README.

Synced up all module version numbers to 3.11 except for Pod::Simple::HTMLLegacy, which is at 5.01 and should not have its version number lowered.

2009-11-12 David E. Wheeler <david@justatheory.org>

\* Release 3.10

Converted test files that had DOS endings to have Unix endings (RT #50922 from Steve Hay).

Skip tests on VMS where the lack of filename case preservation can wreak havoc (RT #51184 from Craig A. Berry).

Fix nested definition list format in the XHTML output (RT #51187 from Lars D).

Added some files missing from the MANIFEST (and therefore the distribution) in the last two releases.

2009-10-27 Allison Randal <allison@perl.org>

\* Release 3.09

Add support for an index (TOC) in the XHTML output from David E. Wheeler.

Add strip\_verbatim\_indent() from David E. Wheeler.

Added the "nocase" option to PullParser's get\_title(), get\_version(), get\_description(), and get\_author() methods. This allows one to fetch the contents of those sections regardless of the case of the labels (e.g., "NAME" and "Name" and "name" are all valid). Graham Barr.

Added the search\_class() accessor to Pod::Simple::HTMLBatch. David E. Wheeler.

XHTML output now properly encodes entities in all places, not just in verbatim blocks and code spans. David E. Wheeler.

Fixed XHTML to output definition lists when it should, rather than (broken) unordered lists. David E. Wheeler.

Fixed XHTML so that multiparagraph list items work correctly. David E. Wheeler.

Fixed XHTML ordered list output so that it does not include the number specified in the POD in the output. This is on a par with out the HTML output works. David E. Wheeler.

Applied URL patch from Leon Brocard for The Perl Journal archives.

Fixed test failures with older versions of HTML::Entities (RT #43903 from Salvador Tercia).

Changed CSS files generated by HTMLBatch to be no more than 8.3 characters long. (RT #40450 from Renee Baecker)

Added entity handling for E<sol> and E<verbar> to Pod::Simple::XHTML. (RT #49615 from Chas Owens.)

Fixed a bug in Pod::Simple::HTML where a definition term item with no corresponding definition item would be output with no closing </a></dt>. (RT # 37107 from Kevin Ryde).

Added entity handling for numeric entities to Pod::Simple::XHTML,  
following perlpod specification.

A POD tag found inside a complex POD tag (e.g., "C<<< C<foo> >>>")  
is now properly parsed as text and entities instead of a tag  
embedded in a tag. This is in compliance with `perldoc perlpod`  
(RT #12239 from Michael Schwern).

Thanks to David E. Wheeler for applying patches, resolving bugs,  
and generally getting ready for the release.

2009-07-16 Allison Randal <allison@perl.org>  
\* Release 3.08

Fix installdirs for Perl versions where Pod::Simple was core;  
RT#36446 & RT#39709, thanks to Jerry Hedden.

Fix encoding handling for code in paragraphs; RT#45829, thanks  
to David Wheeler.

2008-06-04 Allison Randal <allison@perl.org>  
\* Release 3.07

Fix module dependencies, make HTML::Entities optional and require  
Test::More.

2008-06-03 Allison Randal <allison@perl.org>  
\* Release 3.06

Fix bugs related to passing \$1 to File::Spec, reported by Andrew Hamlin and  
John McNamara.

Applied a suggested fix from Kevin Ryde to return a successful exit  
code when Pod::Simple::HTML is run from the command line.

Fix handling of complex L<URL> entries, thanks to tests supplied in RT#4896.

Fix incorrect handling of S<> entries made up of entirely whitespace, thanks  
to test case from Andreas Koenig.

Launch Pod::Simple::XHTML, an XHTML compliant, more easily extensible  
HTML formatter.

Add feature to parse additional text after =begin target as a block  
title, requested by Adam Kennedy.

Thanks to Hans Dieter Pearcey for applying patches, resolving bugs,  
and generally getting ready for the release.

2007-03-03 Allison Randal <allison@perl.org>

\* Release 3.05

Standardized all test files on 8.3 naming scheme for Perl core.

Applied test patches from Jerry Hedden for Perl core when Encode not installed.

Applied test patch from Ken Williams for 5.005\_04 compatibility.

Applied a patch from Christopher Madsen to fix architecture directory searches on Gentoo.

Fixed a failing search test on Debian-based distributions caused by Debian stripping Pod documentation out of core modules. (Three cheers to the CPAN testers and James Ponza for sending enough reports that I could work out the pattern.)

2006-01-18 Allison Randal <allison@perl.org>

\* Release 3.04

Applied test patches for Perl core integration from Steve Peters.

Added a 'reinit' method to Pod::Simple::BlackBox for Russ Allbery so Pod::Man can provide backward compatibility to existing users (such as Module::Build and ExtUtils::MakeMaker).

Applied patch for extracting case-preserved package names on VMS from Craig Berry.

2005-11-21 Allison Randal <allison@perl.org>

\* Release 3.03

Applied whitespace patches for Pod::Man and Pod::Text from Russ Allbery.

Applied validation patches to Pod::Simple::HTML from Graham Barr.

2004-05-24 Sean M. Burke <sburke@cpan.org>

\* Release 3.02

Just fixing some typos in the CSS generated by Pod::Simple::HTMLBatch.

2004-05-24 Sean M. Burke <sburke@cpan.org>

\* Release 3.01

No big changes to the main modules, but there's many changes to

the important Pod::Simple::HTML module.

Also, new modules:

Pod::Simple::HTMLBatch

Pod::Simple::HTMLLegacy

Pod::Simple::Progress

Pod::Simple::Search

and tests for these (well, most).

Some prettying up of the Makefile.PL.

The test 00about.t is a bit more careful and verbose now.

The docs are still incomplete, esp. for Pod::Simple::HTML and Pod::Simple::HTMLBatch, which I hope to improve quite soon.

2004-05-07 Sean M. Burke <[sburke@cpan.org](mailto:sburke@cpan.org)>

\* Release 2.06

Allison Randal brilliantly refactors a huge monolithic sub in Blackbox.pm. Code is now actually sanely readable!

I add the new option-attributes fullstop\_space\_harden and codes\_in\_verbatim, and the two methods abandon\_output\_string and abandon\_output\_fh. Not yet documented.

New test fullstop\_spaces.t and new corpus document greek\_iso\_8859\_7.pod.

Another version should be forthcoming in a few days that has the new Pod::Simple::HTML stuff in it.

Note to self: document =extend and =encoding in perlpodspec ASAP!

2003-11-04 Sean M. Burke <[sburke@cpan.org](mailto:sburke@cpan.org)>

\* Release 2.05 -- bugfix version

In an attempt to stop Perl 5.6 versions from going completely crazy, I've tried to basically turn off all Unicode/utf8 support under 5.6. Under 5.8 and above, Unicode should work fine, and under 5.6, all Unicode characters should be replaced with a little "can't render" symbol, either a "" or a "?".

Many many thanks to Jarkko Hietaniemi for helping out.

(Works under 5.005 now too?)

2003-10-10 Sean M. Burke <sburke@cpan.org>

\* Release 2.04 -- minor bugfix version

\* Added some code to insulate Pod::Simple to runtime changes in the value of \$/. Thanks to Iain Truskett for catching this.

\* Added FILENO method to TiedOutFH.pm, to work quietly under some perls. Thanks to Jochen Stenzel for catching this.

\* Fixed some tests that erroneously failed under some 5.6's because of chdir()s in \*.t files messing up @INC Thanks to many who caught this, including Rocco Caputo.

2003-09-07 Sean M. Burke <sburke@cpan.org>

\* Release 2.03 -- minor upgrade

\* A =head[1234] command now closes any currently open =over, and warns.

\* Fixing a few obscure bugs, including one to do with the Makefile.

\* Added some tests for those bugs.

2003-09-02 Sean M. Burke <sburke@cpan.org>

\* Release 2.02 -- fixing a testing bug

\* Autrijus Tang found a silly bug of mine in corpustest.t's testing of corpus/t/nonesuch.txt. Fixed,

\* I add encoding\_nonesuch.t to test corpus/t/nonesuch.txt better.

2003-09-01 Sean M. Burke <sburke@cpan.org>

\* Release 2.01

\* Moved all version numbers up to 2.01 for reasons of Tibetan numerology.

\* Implemented =encoding. Thanks a million to Jarkko, Autrijus, Dan Kogai, and many others for their help, patience, and encouragement.

It's not yet documented, but see ./t/corpus/\*.txt for examples at least.

\* Added 'use utf8' to all the modules. Byebye perl-5.005 compatibility, hello decent perl-5.6 compatibility.

-----  
2003-09-01 Sean M. Burke <sburke@cpan.org>

\* Release 0.98

\* At Michael Schwern's suggestion, a list that begins with a "=item [number]" line where number isn't a 1, is no longer

treated as an error, but instead is silently coerced into being a text-item list, just as if it were "=item wubble" or whatever.

2003-08-12 Sean M. Burke <sburke@cpan.org>

\* Release 0.97

\* Looking goooooood. Not smelling so much like beta anymore!

\* I think this might be the last version before I go putting "use utf8" all over the place.

\* Added placeholders for "=encoding" support. If you use "=encoding", you'll get an error about "not yet implemented" instead of "unknown directive".

\* Rewrote Pod::Simple::PullParser's get\_title, and added get\_version, get\_author, and get\_description. Documented them. Thanks to Graham Barr for contributing an initial get\_title and then being patient while I seemed to do nothing with it for months on end!

\* More tests.

Otherwise just minor changes since last version:

\* Fixed error in Pod::Simple::RTF.

\* Added new but undocumented methods to Pod::Simple:

    unaccept\_directive(s) unaccept\_target(s) unaccept\_code(s)

\* Corrected '=back without =open' error to '=back without =over'

\* A little tweaking to the \_verbatim\_format code.

\* Dump routines may use \x{NN} instead of \xNN format.

\* Pod::Simple::HTML now uses VerbatimFormatted

\* A few changes of DEBUG messages -- nothing you'd normally see.

2002-11-19 Sean M. Burke <sburke@cpan.org>

\* Release 0.96

\* Still kinda sorta beta.

\* Much much more docs in this version. Only a few feature changes:

\* Added any\_errata\_seen to Pod::Simple. Should've been in there ages ago. Oops!

\* Fixed some errors in the experimental VerbatimFormatted code.

\* Added is\_tagname / is\_tag to Pod::Simple::PullParserStartToken and Pod::Simple::PullParserEndToken

\* Added RTFDEFLANG stuff to Pod::Simple::RTF.

2002-11-10 Sean M. Burke <sburke@cpan.org>

\* Release 0.95

\* Beta release. Much documentation still to write, many features



still to add. The APIs might change in future versions.

\* Now including perlpod and perlpodspec in the dist.

\* Pod::Simple -- added parse\_from\_file

\* Pod::Simple::RTF -- minor style changes, and minor change to the RTF-wrapping logic.

\* Pod::Simple::BlackBox -- a =cut opening a block is no longer a fatal(ish) error.

\* Pod::Simple::BlackBox -- added experimental new VerbatimFormatted stuff.

2002-10-16 Sean M. Burke <sburke@cpan.org>

\* Release 0.94

\* Beta release. Much documentation still to write, many features still to add. The APIs might change in future versions.

\* Pod::Simple::RTF -- minor style tweaks

\* Pod::Simple::PullParserEndToken and ::PullParserStartToken -- added ->tag as an alias for ->tagname.

\* Pod::Simple and Pod::Simple::BlackBox -- added tolerance for "=item \* Foo" as a variant syntax for "=item \*\n\nFoo". Tests added/changed accordingly.

\* Pod::Simple::HTML -- added <a name="..."> stuff, and a hack at doing something with X<...>'s.

2002-09-29 Sean M. Burke <sburke@cpan.org>

\* Release 0.93

\* Beta release. Much documentation still to write, many features still to add. The APIs might change in future versions.

\* Pod::Simple -- added errors\_seen attribute

\* Pod::Simple::HTML -- added support for =for HTML ... directives, and =extend directives.

\* Oh, and I added Pod::Simple::RTF in 0.92 but forgot to note it until now.

2002-09-29 Sean M. Burke <sburke@cpan.org>

\* Release 0.92

\* Beta release. Much documentation still to write, many features still to add. The APIs might change in future versions.

\* Fixing bungled distribution.

2002-09-29 Sean M. Burke <sburke@cpan.org>

\* Release 0.91

\* Beta release. Much documentation still to write, many features still to add. The APIs might change in future versions.

\* Pod::Simple::PullParserTextToken -- added 'text\_r'

\* Pod::Simple::PullParser -- added 'get\_title' and 'get\_title\_short' to

\* Pod::Simple -- corrected wording of "Format for second =extend parameter" error message.

\* Pod::PullParser -- made its filter() run as intended, like Pod::Simple's filter.

\* Pod::Subclassing -- more docs

2002-09-11 Sean M. Burke <sburke@cpan.org>

\* Release 0.90

\* Beta release. Much documentation still to write, many features still to add. The APIs might change in future versions.

Found in path(s):

\* /opt/cola/permits/1000849041\_1646171520.95/0/perl-Pod-Simple-3.28-4.el7.src.rpm-cosi-expand-archive-8bV9qtZC/Pod-Simple-3.28.tar.gz-cosi-expand-archive-TIm8aDDs/Pod-Simple-3.28/ChangeLog

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

=head1 NAME

Pod::Simple::Text -- format Pod as plaintext

=head1 SYNOPSIS

```
perl -MPod::Simple::Text -e \  
"exit Pod::Simple::Text->filter(shift)->any_errata_seen" \  
thingy.pod
```

=head1 DESCRIPTION

This class is a formatter that takes Pod and renders it as wrapped plaintext.

Its wrapping is done by L<Text::Wrap>, so you can change C<\$Text::Wrap::columns> as you like.

This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::TextContent>, L<Pod::Text>

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<<https://github.com/theory/pod-simple/>>. Feel free to fork and contribute, or to clone L<[git://github.com/theory/pod-simple.git](https://github.com/theory/pod-simple.git)> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <[bug-pod-simple@rt.cpan.org](mailto: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](mailto:sburke@cpan.org)>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item \* Allison Randal C<[allison@perl.org](mailto:allison@perl.org)>

=item \* Hans Dieter Pearcey C<[hdp@cpan.org](mailto:hdp@cpan.org)>

=item \* David E. Wheeler C<[dwheeler@cpan.org](mailto:dwheeler@cpan.org)>

=back

=cut

Found in path(s):

\* /opt/cola/permits/1000849041\_1646171520.95/0/perl-Pod-Simple-3.28-4.el7.src.rpm-cosi-expand-archive-8bV9qtZC/Pod-Simple-3.28.tar.gz-cosi-expand-archive-TIm8aDDs/Pod-Simple-3.28/lib/Pod/Simple/Text.pm

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

## 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, perllo, perldsc
- Modules     perlmod, perlmodlib, perlsub
- Regexes     perlre, perlfunc, perlop, perllocale
- Moving to perl5 perltrap, perl
- Linking w/C   perlxs, perlcall, perlguts, perlembed
- Various     <http://www.perl.com/CPAN/doc/FMTEYEWTK/index.html>  
(not a man-page but still useful)

A crude table of contents for the Perl man page set is found in perltoc.

How can I use Perl interactively?

The typical approach uses the Perl debugger, described in the perldebug(1) man page, on an ``empty" program, like this:

```
perl -de 42
```

Now just type in any legal Perl code, and it will be immediately evaluated. You can also examine the symbol table, get stack backtraces, check variable values, set breakpoints, and other operations typically found in symbolic debuggers.

Is there a Perl shell?

In general, no. The Shell.pm module (distributed with Perl) makes Perl try commands which aren't part of the Perl language as shell commands. perlsh from the source distribution is simplistic and uninteresting, but may still be what you want.

How do I debug my Perl programs?

Have you tried use warnings or used -w? They enable warnings to detect dubious practices.

Have you tried use strict? It prevents you from using symbolic references, makes you predeclare any subroutines that you call as bare words, and (probably most importantly) forces you to predeclare your variables with my, our, or use vars.

Did you check the return values of each and every system call? The operating system (and thus Perl) tells you whether they worked, and if not why.

```
open(FH, "> /etc/cantwrite")  
  or die "Couldn't write to /etc/cantwrite: $!\n";
```

Did you read 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:

```
use Benchmark;
@junk = `cat /etc/motd`;
$count = 10_000;
timethese($count, {
    'map' => sub { my @a = @junk;
                  map { s/a/b/ } @a;
                  return @a
                },
    'for' => sub { my @a = @junk;
                  local $_;
                  for (@a) { s/a/b/ };
                  return @a },
});
```

This is what it prints (on one machine--your results will be dependent on your hardware, operating system, and the load on your machine):

```
Benchmark: timing 10000 iterations of for, map...
for: 4 secs ( 3.97 usr 0.01 sys = 3.98 cpu)
map: 6 secs ( 4.97 usr 0.00 sys = 4.97 cpu)
```

Be aware that a good benchmark is very hard to write. It only tests the data you give it and proves little about the differing complexities of contrasting algorithms.

How do I cross-reference my Perl programs?

The B::Xref module, shipped with the new, alpha-release Perl compiler (not the general distribution prior to the 5.005 release), can be used to generate cross-reference reports for Perl programs.

```
perl -MO=Xref[,OPTIONS] scriptname.plx
```

Is there a pretty-printer (formatter) for Perl?

There is no program that will reformat Perl as much as indent(1) does for C. The complex feedback between the scanner and the parser (this feedback is what confuses the vgrind and emacs programs) makes it challenging at best to write a stand-alone Perl parser.

Of course, if you simply follow the guidelines in perlstyle, you shouldn't need to reformat. The habit of formatting your code as you write it will help prevent bugs. Your editor can and should help you with this. The perl-mode or newer cperl-mode for emacs can provide remarkable amounts of help with most (but not all) code, and even less programmable editors can provide significant assistance. Tom swears by the following settings in vi and its clones:

```
set ai sw=4
map! ^O {^M}^[O^T
```

Now put that in your .exrc file (replacing the caret characters with control characters) and away you go. In insert mode, ^T is for indenting, ^D is for unindenting, 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/%7Edemaille/a2ps/> does lots of things related to generating nicely printed output of documents.

Is there a ctags for Perl?

There's a simple one at <http://www.perl.com/CPAN/authors/id/TOMC/scripts/ptags.gz> which may do the trick. And if not, it's easy to hack into what you want.

Is there an IDE or Windows Perl Editor?

Perl programs are just plain text, so any editor will do.

If you're on Unix, you already have an IDE--Unix itself. The UNIX philosophy is the philosophy of several small tools that each do one thing and do it well. It's like a carpenter's toolbox.

If you want a Windows IDE, check the following:

CodeMagicCD

<http://www.codemagiccd.com/>

Komodo

ActiveState's cross-platform, multi-language IDE has Perl support, including a regular expression debugger and remote debugging (<http://www.ActiveState.com/Products/Komodo/index.html>). (Visual Perl, a Visual Studio.NET plug-in is currently (early 2001) in beta (<http://www.ActiveState.com/Products/VisualPerl/index.html>)).

The Object System

([http://www.castlelink.co.uk/object\\_system/](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.nbc.com/uemacs/>

XEmacs

<http://www.xemacs.org/Download/index.html>

or a vi clone such as

Elvis

<ftp://ftp.cs.pdx.edu/pub/elvis/> <http://www.fh-wedel.de/elvis/>

Vile

<http://vile.cx/>

Vim

<http://www.vim.org/>

win32: <http://www.cs.vu.nl/~7Etmgil/vi.html>

For vi lovers in general, Windows or elsewhere: <http://www.thomer.com/thomer/vi/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

<http://www.MultiEdit.com/>

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

<ftp://ftp.astron.com/pub/tcsh/>, see also <http://www.primate.wisc.edu/software/csh-tcsh-book/>

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 BBEEdit 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](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](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/](http://www.perl.com/CPAN/modules/by-category/08_User_Interfaces/)

Invaluable for Perl/Tk programming are the Perl/Tk FAQ at <http://w4.lns.cornell.edu/%7Epvhp/ptk/ptkTOC.html> , the Perl/Tk Reference Guide available at [http://www.perl.com/CPAN-local/authors/Stephen\\_O\\_Lidie/](http://www.perl.com/CPAN-local/authors/Stephen_O_Lidie/) , and the online manpages at <http://www-users.cs.umn.edu/%7Eamundson/perl/perlTk/toc.html> .

How can I generate simple menus without using CGI or Tk?

The <http://www.perl.com/CPAN/authors/id/SKUNZ/perlmenu.v4.0.tar.gz> module, which is curses-based, can help with this.

What is undump?

See the next question on ``How can I make my Perl program run faster?''

How can I make my Perl program run faster?

The best way to do this is to come up with a better algorithm. This can often make a dramatic difference. Jon Bentley's book ``Programming Pearls'' (that's not a misspelling!) has some good tips on optimization, too. Advice on benchmarking boils down to: benchmark and profile to make sure you're optimizing the right part, look for better algorithms instead of microtuning your code, and when all else fails consider just buying faster hardware.

A different approach is to autoload seldom-used Perl code. See the AutoSplit and AutoLoader modules in the standard distribution for that. Or you could locate the bottleneck and think about writing just that part in C, the way we used to take bottlenecks in C code and write them in assembler. Similar to rewriting in C, modules that have critical sections can be written in C (for instance, the PDL module from CPAN).

In some cases, it may be worth it to use the backend compiler to produce byte code (saving compilation time) or compile into C, which will certainly save compilation time and sometimes a small amount (but not much) execution time. See the question about compiling your Perl programs for more on the compiler--the wins aren't as obvious as you'd hope.

If you're currently linking your perl executable to a shared libc.so, you can often gain a 10-25% performance benefit by rebuilding it to link with a static libc.a instead. This will make a bigger perl executable, but your Perl programs (and programmers) may thank you for it. See the INSTALL file in the source distribution for more information.

Unsubstantiated reports allege that Perl interpreters that use sfio outperform those that don't (for I/O intensive applications). To try this, see the INSTALL file in the source distribution, especially the ``Selecting File I/O mechanisms'' section.

The undump program was an old attempt to speed up your Perl program by storing the already-compiled form to disk. This is no longer a viable option, as it only worked on a few architectures, and wasn't a good solution anyway.

How can I make my Perl program take less memory?

When it comes to time-space tradeoffs, Perl nearly always prefers to throw memory at a problem. Scalars in Perl use more memory than strings in C, arrays take more than that, and hashes use even more. While there's still a lot to be done, recent releases have been addressing these issues. For example, as of 5.004, duplicate hash keys are shared amongst all hashes using them, so require no reallocation.

In some cases, using substr() or vec() to simulate arrays can be highly beneficial. For example, an array of a thousand booleans will take at least 20,000 bytes of space, but it can be turned into one 125-byte bit vector--a considerable memory savings. The standard Tie::SubstrHash module can also help for certain types of data structure. If you're working with specialist data structures (matrices, for instance) modules that implement these in C may use less memory than equivalent Perl modules.

Another thing to try is learning whether your Perl was compiled with the system malloc or with Perl's builtin malloc. Whichever one it is, try using the other one and see whether this makes a difference. Information about malloc is in the INSTALL file in the source distribution. You can find out whether you are using perl's malloc by typing perl -V:usemymalloc.

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.

See [http://www.perl.com/CPAN/modules/by-category/15\\_World\\_Wide\\_Web\\_HTML\\_HTTP\\_CGI/](http://www.perl.com/CPAN/modules/by-category/15_World_Wide_Web_HTML_HTTP_CGI/).

A non-free, commercial product, ``The Velocity Engine for Perl'', (<http://www.binevolve.com/> or <http://www.binevolve.com/velocigen/>) might also be worth looking at. It will allow you to increase the performance of your Perl programs, running programs up to 25 times faster than normal CGI Perl when running in persistent Perl mode or 4 to 5 times faster without any modification to your existing CGI programs. Fully functional evaluation copies are available from the web site.

How can I hide the source for my Perl program?

Delete it. :-) Seriously, there are a number of (mostly unsatisfactory) solutions with varying levels of ``security''. First of all, however, you can't take away read permission, because the source code has to be readable in order to be compiled and interpreted. (That doesn't mean that a CGI script's source is readable by people on the web, though--only by people with access to the filesystem.) So you have to leave the permissions at the socially friendly 0755

level.

Some people regard this as a security problem. If your program does insecure things and relies on people not knowing how to exploit those insecurities, it is not secure. It is often possible for someone to determine the insecure things and exploit them without viewing the source. Security through obscurity, the name for hiding your bugs instead of fixing them, is little security indeed.

You can try using encryption via source filters (Filter::\* from CPAN), but any decent programmer will be able to decrypt it. You can try using the byte code compiler and interpreter described below, but the curious might still be able to de-compile it. You can try using the native-code compiler described below, but crackers might be able to disassemble it. These pose varying degrees of difficulty to people wanting to get at your code, but none can definitively conceal it (true of every language, not just Perl).

If you're concerned about people profiting from your code, then the bottom line is that nothing but a restrictive license will give you legal security. License your software and pepper it with threatening statements like "This is unpublished proprietary software of XYZ Corp. Your access to it does not give you permission to use it blah blah blah." We are not lawyers, of course, so you should see a lawyer if you want to be sure your license's wording will stand up in court.

How can I compile my Perl program into byte code or C?

Malcolm Beattie has written a multifunction backend compiler, available from CPAN, that can do both these things. It is included in the perl5.005 release, but is still considered experimental. This means it's fun to play with if you're a programmer but not really for people looking for turn-key solutions.

Merely compiling into C does not in and of itself guarantee that your code will run very much faster. That's because except for lucky cases where a lot of native type inferencing is possible, the normal Perl run-time system is still present and so your program will take just as long to run and be just as big. Most programs save little more than compilation time, leaving execution no more than 10-30% faster. A few rare programs actually benefit significantly (even running several times faster), but this takes some tweaking of your code.

You'll probably be astonished to learn that the current version of the compiler generates a compiled form of your script whose executable is just as big as the original perl executable, and then some. That's because as currently written, all programs are prepared for a full eval() statement. You can tremendously reduce this cost by building a shared libperl.so library and linking against that. See the INSTALL podfile in the Perl source distribution for details. If you link your main perl binary with this, it will make it minuscule. For example, on one author's system, /usr/bin/perl is only 11k in size!

In general, the compiler will do nothing to make a Perl program smaller, faster, more portable, or more secure. In fact, it can make your situation worse. The executable will be bigger, your VM system may take longer to load the whole thing, the binary is fragile and hard to fix, and compilation never stopped software piracy in the form of crackers, viruses, or bootleggers. The real advantage of the compiler is merely packaging, and once you see the size of what it makes (well, unless you use a shared libperl.so), you'll probably want a complete Perl install anyway.

How can I compile Perl into Java?

You can also integrate Java and Perl with the Perl Resource Kit from O'Reilly and Associates. See <http://www.oreilly.com/catalog/prkunix/>.

Perl 5.6 comes with Java Perl Lingo, or JPL. JPL, still in development, allows Perl code to be called from Java. See jpl/README in the Perl source tree.

How can I get #!perl to work on [MS-DOS,NT,...]?

For OS/2 just use

```
extproc perl -S -your_switches
```

as the first line in \*.cmd file (-S due to a bug in cmd.exe's `extproc' handling). For DOS one should first invent a corresponding batch file and codify it in ALTERNATIVE\_SHEBANG (see the INSTALL file in the source distribution for more information).

The Win95/NT installation, when using the ActiveState port of Perl, will modify the Registry to associate the .pl extension with the perl interpreter. If you install another port, perhaps even building your own Win95/NT Perl from

the standard sources by using a Windows port of gcc (e.g., with cygwin or mingw32), then you'll have to modify the Registry yourself. In addition to associating .pl with the interpreter, NT people can use: SET PATHEXT=%PATHEXT%;PL to let them run the program install-linux.pl merely by typing install-linux. Macintosh Perl programs will have the appropriate Creator and Type, so that double-clicking them will invoke the Perl application.

**IMPORTANT!:** Whatever you do, PLEASE don't get frustrated, and just throw the perl interpreter into your cgi-bin directory, in order to get your programs working for a web server. This is an EXTREMELY big security risk. Take the time to figure out how to do it correctly.

Can I write useful Perl programs on the command line?

Yes. Read perlrun for more information. Some examples follow. (These assume standard Unix shell quoting rules.)

```
# sum first and last fields
perl -lane 'print $F[0] + $F[-1]' *
# identify text files
perl -le 'for(@ARGV) {print if -f && -T _}' *
# remove (most) comments from C program
perl -0777 -pe 's/{\^*.*?\/}{}gs' foo.c
# make file a month younger than today, defeating reaper daemons
perl -e '$X=24*60*60; utime(time(),time() + 30 * $X,@ARGV)' *
# find first unused uid
perl -le '$i++ while getpwuid($i); print $i'
# display reasonable manpath
echo $PATH | perl -nl -072 -e '
    s![^/+]*$!man!&&-d&&!$s{$_}++&&push@m,$_;END{print"@m"}'
```

OK, the last one was actually an Obfuscated Perl Contest entry. :-)

Why don't Perl one-liners work on my DOS/Mac/VMS system?

The problem is usually that the command interpreters on those systems have rather different ideas about quoting than the Unix shells under which the one-liners were created. On some systems, you may have to change 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/>

<http://www.w3.org/pub/WWW/MarkUp/>

CGI Spec

<http://www.w3.org/CGI/>

CGI Security FAQ

<http://www.go2net.com/people/paulp/cgi-security/safe-cgi.txt>

Where can I learn about object-oriented Perl programming?

A good place to start is perltoot, and you can use perlobj, perlboot, and perlbot for reference. Perltoot didn't come out until the 5.004 release; you can get a copy (in pod, html, or postscript) from

<http://www.perl.com/CPAN/doc/FMTEYEWTK/> .

Where can I learn about linking C with Perl? [h2xs, xsubpp]

If you want to call C from Perl, start with perlxsut, moving on to perlxs, xsubpp, and perlguits. If you want to call Perl from C, then read perlembed, perllcall, 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.

AUTHOR AND COPYRIGHT

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otherwise), this works is covered under Perl's Artistic License. For separate distributions of all or part of this FAQ outside of that, see perlfaq.

Irrespective of its distribution, all code examples here are in the public domain. You are permitted and encouraged to use this code and any derivatives thereof in your own programs for fun or for profit as you see fit. A simple comment in the code giving credit to the FAQ would be courteous but is not required.

Found in path(s):

```
* /opt/cola/permits/1000849041_1646171520.95/0/perl-Pod-Simple-3.28-4.el7.src.rpm-cosi-expand-archive-8bV9qtZC/Pod-Simple-3.28.tar.gz-cosi-expand-archive-TIm8aDDs/Pod-Simple-3.28/t/perlfaqo.txt
```

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

=head1 NAME

Pod::Simple::PullParser -- a pull-parser interface to parsing Pod

=head1 SYNOPSIS

```
my $parser = SomePodProcessor->new;
$parser->set_source( "whatever.pod" );
$parser->run;
```

Or:

```
my $parser = SomePodProcessor->new;
$parser->set_source( $some_filehandle_object );
$parser->run;
```

Or:

```
my $parser = SomePodProcessor->new;
$parser->set_source( \ $document_source );
$parser->run;
```

Or:

```
my $parser = SomePodProcessor->new;
$parser->set_source( \@document_lines );
$parser->run;
```

And elsewhere:

```
require 5;
package SomePodProcessor;
use strict;
use base qw(Pod::Simple::PullParser);
```

```
sub run {
    my $self = shift;
```

```

Token:
while(my $token = $self->get_token) {
    ...process each token...
}
}

```

=head1 DESCRIPTION

This class is for using Pod::Simple to build a Pod processor -- but one that uses an interface based on a stream of token objects, instead of based on events.

This is a subclass of L<Pod::Simple> and inherits all its methods.

A subclass of Pod::Simple::PullParser should define a C<run> method that calls C<< \$token = \$parser->get\_token >> to pull tokens.

See the source for Pod::Simple::RTF for an example of a formatter that uses Pod::Simple::PullParser.

=head1 METHODS

=over

=item my \$token = \$parser->get\_token

This returns the next token object (which will be of a subclass of L<Pod::Simple::PullParserToken>), or undef if the parser-stream has hit the end of the document.

=item \$parser->unget\_token( \$token )

=item \$parser->unget\_token( \$token1, \$token2, ... )

This restores the token object(s) to the front of the parser stream.

=back

The source has to be set before you can parse anything. The lowest-level way is to call C<set\_source>:

=over

=item \$parser->set\_source( \$filename )

=item \$parser->set\_source( \$filehandle\_object )

=item \$parser->set\_source( \\$document\_source )

=item \$parser->set\_source( \@document\_lines )

=back

Or you can call these methods, which Pod::Simple::PullParser has defined to work just like Pod::Simple's same-named methods:

=over

=item \$parser->parse\_file(...)

=item \$parser->parse\_string\_document(...)

=item \$parser->filter(...)

=item \$parser->parse\_from\_file(...)

=back

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\n\nParagraph...\n" section, assuming that that section isn't terribly long. To recognize a "=head1 Author\n\nParagraph\n"



section, pass the C<nocase> option:

```
$parser->get_author(nocase => 1);
```

(This method tolerates "AUTHORS" instead of "AUTHOR" too.)

```
=item $description_name = $parser->get_description
```

This works like `get_title` except that it returns the contents of the "`=head1 DESCRIPTION\n\nParagraph...\n`" section, assuming that that section isn't terribly long. To recognize a "`=head1 Description\n\nParagraph\n`" section, pass the C<nocase> option:

```
$parser->get_description(nocase => 1);
```

```
=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.
```

## =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 AUTHOR

Pod::Simple was created by Sean M. Burke <[sburke@cpan.org](mailto:sburke@cpan.org)>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item \* Allison Randal C<[allison@perl.org](mailto:allison@perl.org)>

=item \* Hans Dieter Pearcey C<[hdp@cpan.org](mailto:hdp@cpan.org)>

=item \* David E. Wheeler C<[dwheeler@cpan.org](mailto:dwheeler@cpan.org)>

=back

=cut

JUNK:

```
sub _old_get_title { # some witchery in here
    my $self = $_[0];
    my $title;
```

```

my @to_unget;

while(1) {
  push @to_unget, $self->get_token;
  unless(defined $to_unget[-1]) { # whoops, short doc!
    pop @to_unget;
    last;
  }

  DEBUG and print "-Got token ", $to_unget[-1]->dump, "\n";

  (DEBUG and print "Too much in the buffer.\n"),
  last if @to_unget > 25; # sanity

  my $pattern = "";
  if( # $to_unget[-1]->type eq 'end'
      #and $to_unget[-1]->tagname eq 'Para'
      #and
      ($pattern = join(
        map {
          ($_->type eq 'start') ? ("<" . $_->tagname . ">")
          : ($_->type eq 'end' ) ? ("</" . $_->tagname . ">")
          : ($_->type eq 'text' ) ? ($_->text =~ m<^[A-Z]+>$>s ? $1 : 'X')
          : "BLORP"
        } @to_unget
      )) =~ m{<head1>NAME</head1><Para>(X|</?[BCIFLS]>)+</Para>}s
  ) {
    # Whee, it fits the pattern
    DEBUG and print "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 "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 "Leading pattern: $pattern\n";
}
}
```

# Put it all back:

```
$self->unget_token(@to_unget);
```

```
if(DEBUG) {
    if(defined $title) { print " Returning title <$title>\n" }
    else { print "Returning title <>\n" }
}
```

```
return " unless defined $title;
```

```
return $title;
```

```
}
```

Found in path(s):

```
* /opt/cola/permits/1000849041_1646171520.95/0/perl-Pod-Simple-3.28-4.el7.src.rpm-cosi-expand-archive-8bV9qtZC/Pod-Simple-3.28.tar.gz-cosi-expand-archive-TIm8aDDs/Pod-Simple-3.28/lib/Pod/Simple/PullParser.pm
```

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=head1 NAME

Pod::Simple::DumpAsXML -- turn Pod into XML

=head1 SYNOPSIS

```
perl -MPod::Simple::DumpAsXML -e \
"exit Pod::Simple::DumpAsXML->filter(shift)->any_errata_seen" \
thingy.pod
```

=head1 DESCRIPTION

Pod::Simple::DumpAsXML is a subclass of L<Pod::Simple> that parses Pod and turns it into indented and wrapped XML. This class is of interest to people writing Pod formatters based on Pod::Simple.

Pod::Simple::DumpAsXML inherits methods from L<Pod::Simple>.

=head1 SEE ALSO

L<Pod::Simple::XMLOutputStream> is rather like this class.

Pod::Simple::XMLOutputStream's output is space-padded in a way

that's better for sending to an XML processor (that is, it has no ignorable whitespace). But Pod::Simple::DumpAsXML's output is much more human-readable, being (more-or-less) one token per line, with line-wrapping.

L<Pod::Simple::DumpAsText> is rather like this class, except that it doesn't dump with XML syntax. Try them and see which one you like best!

L<Pod::Simple>, L<Pod::Simple::DumpAsXML>

The older libraries L<Pod::PXML>, L<Pod::XML>, L<Pod::SAX>

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=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>

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=head1 Pod::Simple version 3.28

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.

## =head2 Installation

To install this module, type the following:

```
perl Makefile.PL
make
make test
make install
```

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# 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 -MData::Dumper -e
"use base qw(Pod::Simple::Methody);
sub start_L { print Dumper($_[1]{'section'}) }
__PACKAGE__->new->parse_string_document('=head1 L<Foo/bI<ar>baz>>')
"
```

Output:

```
$VAR1 = bless( [
    ",
    {}),
    'b',
    bless( [
        'T',
        {}),
        'ar'
    ], 'Pod::Simple::LinkSection' ),
    'baz'
], 'Pod::Simple::LinkSection');
```

But stringify it and you get just the text content:

```
% perl -MData::Dumper -e
"use base qw(Pod::Simple::Methody);
sub start_L { print Dumper(" . $_[1]{'section'}) }
__PACKAGE__->new->parse_string_document('=head1 L<Foo/bI<ar>baz>>')
"
```

Output:

```
$VAR1 = 'barbaz';
```

=head1 SEE ALSO

L<Pod::Simple>

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# 1.297 dmidecode 3.2-5.el7

## 1.297.1 Available under license :

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Version 2, June 1991

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

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

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

You should also get your employer (if you work as a programmer) or your  
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necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
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```

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

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## 1.298 libdrm 2.4.97-2.el7

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## 1.299 velocity 1.6.2

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# 1.300 curl 7.29.0-59.el7\_9.1

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=====

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zlib [http://www.gzip.org/zlib/zlib\\_license.html](http://www.gzip.org/zlib/zlib_license.html)

(Used for compressed Transfer-Encoding support) Uses an MIT-style

license that shouldn't collide with any other library.

#### krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

MIT Kerberos <http://web.mit.edu/kerberos/www/dist/>

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#### fbopenssl

(Used for SPNEGO support) Unclear license. Based on its name, I assume that it uses the OpenSSL license and thus shares the same issues as described for OpenSSL above.

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```

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## 1.302 rpm 4.11.3-45.el7

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# 1.312 perl-pod-usage 1.63-3.el7

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```

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## 1.317 perl-encode 2.51-7.el7

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=head1 NAME

Encode - character encodings in Perl

=head1 SYNOPSIS

```
use Encode qw(decode encode);
$characters = decode('UTF-8', $octets, Encode::FB_CROAK);
$octets     = encode('UTF-8', $characters, Encode::FB_CROAK);
```

=head2 Table of Contents

Encode consists of a collection of modules whose details are too extensive to fit in one document. This one itself explains the top-level APIs and general topics at a glance. For other topics and more details, see the documentation for these modules:

=over 2

=item L<Encode::Alias> - Alias definitions to encodings

=item L<Encode::Encoding> - Encode Implementation Base Class

=item L<Encode::Supported> - List of Supported Encodings

=item L<Encode::CN> - Simplified Chinese Encodings

=item L<Encode::JP> - Japanese Encodings

=item L<Encode::KR> - Korean Encodings

=item L<Encode::TW> - Traditional Chinese Encodings

=back

=head1 DESCRIPTION

The C<Encode> module provides the interface between Perl strings and the rest of the system. Perl strings are sequences of I<characters>.

The repertoire of characters that Perl can represent is a superset of those defined by the Unicode Consortium. On most platforms the ordinal values of a character as returned by C<ord(I<S>)> is the I<Unicode codepoint> for that character. The exceptions are platforms where the legacy encoding is some variant of EBCDIC rather than a superset of ASCII; see L<perlebcdic>.

During recent history, data is moved around a computer in 8-bit chunks, often called "bytes" but also known as "octets" in standards documents. Perl is widely used to manipulate data of many types: not only strings of characters representing human or computer languages, but also "binary" data, being the machine's representation of numbers, pixels in an image, or just about anything.

When Perl is processing "binary data", the programmer wants Perl to process "sequences of bytes". This is not a problem for Perl: because a byte has 256 possible values, it easily fits in Perl's much larger "logical character".

This document mostly explains the I<how>. L<perlunitut> and L<perlunifaq> explain the I<why>.

=head2 TERMINOLOGY

=head3 character

A character in the range 0 .. 2\*\*32-1 (or more); what Perl's strings are made of.

=head3 byte

A character in the range 0..255;  
a special case of a Perl character.

=head3 octet

8 bits of data, with ordinal values 0..255;  
term for bytes passed to or from a non-Perl context, such as a disk file,  
standard I/O stream, database, command-line argument, environment variable,  
socket etc.

=head1 THE PERL ENCODING API

=head2 Basic methods

=head3 encode

```
$octets = encode(ENCODING, STRING[, CHECK])
```

Encodes the scalar value I<STRING> from Perl's internal form into I<ENCODING> and returns a sequence of octets. I<ENCODING> can be either a canonical name or an alias. For encoding names and aliases, see L</"Defining Aliases">. For CHECK, see L</"Handling Malformed Data">.

For example, to convert a string from Perl's internal format into ISO-8859-1, also known as Latin1:

```
$octets = encode("iso-8859-1", $string);
```

B<CAVEAT>: When you run C<\$octets = encode("utf8", \$string)>, then \$octets I<might not be equal to> \$string. Though both contain the same data, the UTF8 flag for \$octets is I<always> off. When you encode anything, the UTF8 flag on the result is always off, even when it contains a completely valid utf8 string. See L</"The UTF8 flag"> below.

If the \$string is C<undef>, then C<undef> is returned.

=head3 decode

```
$string = decode(ENCODING, OCTETS[, CHECK])
```

This function returns the string that results from decoding the scalar value I<OCTETS>, assumed to be a sequence of octets in I<ENCODING>, into Perl's internal form. The returns the resulting string. As with encode(), I<ENCODING> can be either a canonical name or an alias. For encoding names and aliases, see L</"Defining Aliases">; for I<CHECK>, see L</"Handling Malformed Data">.

For example, to convert ISO-8859-1 data into a string in Perl's internal format:

```
$string = decode("iso-8859-1", $octets);
```

**B<CAVEAT>**: When you run `C<$string = decode("utf8", $octets)>`, then `$string` I<might not be equal to> `$octets`. Though both contain the same data, the UTF8 flag for `$string` is on unless `$octets` consists entirely of ASCII data on ASCII machines or EBCDIC on EBCDIC machines. See L</"The UTF8 flag"> below.

If the `$string` is `C<undef>`, then `C<undef>` is returned.

```
=head3 find_encoding
```

```
[$obj =] find_encoding(ENCODING)
```

Returns the I<encoding object> corresponding to I<ENCODING>. Returns `C<undef>` if no matching I<ENCODING> is found. The returned object is what does the actual encoding or decoding.

```
$utf8 = decode($name, $bytes);
```

is in fact

```
$utf8 = do {
    $obj = find_encoding($name);
    croak qq(encoding "$name" not found) unless ref $obj;
    $obj->decode($bytes);
};
```

with more error checking.

You can therefore save time by reusing this object as follows;

```
my $enc = find_encoding("iso-8859-1");
while(<>) {
    my $utf8 = $enc->decode($_);
    ... # now do something with $utf8;
}
```

Besides L</decode> and L</encode>, other methods are available as well. For instance, `C<name()>` returns the canonical name of the encoding object.

```
find_encoding("latin1")->name; # iso-8859-1
```

See L<Encode::Encoding> for details.

=head3 from\_to

```
[$length =] from_to($octets, FROM_ENC, TO_ENC [, CHECK])
```

Converts I<in-place> data between two encodings. The data in \$octets must be encoded as octets and I<not> as characters in Perl's internal format. For example, to convert ISO-8859-1 data into Microsoft's CP1250 encoding:

```
from_to($octets, "iso-8859-1", "cp1250");
```

and to convert it back:

```
from_to($octets, "cp1250", "iso-8859-1");
```

Because the conversion happens in place, the data to be converted cannot be a string constant: it must be a scalar variable.

C<from\_to()> returns the length of the converted string in octets on success, and C<undef> on error.

B<CAVEAT>: The following operations may look the same, but are not:

```
from_to($data, "iso-8859-1", "utf8"); #1  
$data = decode("iso-8859-1", $data); #2
```

Both #1 and #2 make \$data consist of a completely valid UTF-8 string, but only #2 turns the UTF8 flag on. #1 is equivalent to:

```
$data = encode("utf8", decode("iso-8859-1", $data));
```

See L</"The UTF8 flag"> below.

Also note that:

```
from_to($octets, $from, $to, $check);
```

is equivalent to:

```
$octets = encode($to, decode($from, $octets), $check);
```

Yes, it does I<not> respect the \$check during decoding. It is deliberately done that way. If you need minute control, use C<decode> followed by C<encode> as follows:

```
$octets = encode($to, decode($from, $octets, $check_from), $check_to);
```

```
=head3 encode_utf8
```

```
$octets = encode_utf8($string);
```

Equivalent to C<`$octets = encode("utf8", $string)`>. The characters in `$string` are encoded in Perl's internal format, and the result is returned as a sequence of octets. Because all possible characters in Perl have a (loose, not strict) UTF-8 representation, this function cannot fail.

```
=head3 decode_utf8
```

```
$string = decode_utf8($octets [, CHECK]);
```

Equivalent to C<`$string = decode("utf8", $octets [, CHECK])`>.

The sequence of octets represented by `$octets` is decoded from UTF-8 into a sequence of logical characters.

Because not all sequences of octets are valid UTF-8, it is quite possible for this function to fail.

For `CHECK`, see L<"Handling Malformed Data">.

```
=head2 Listing available encodings
```

```
use Encode;  
@list = Encode->encodings();
```

Returns a list of canonical names of available encodings that have already been loaded. To get a list of all available encodings including those that have not yet been loaded, say:

```
@all_encodings = Encode->encodings(":all");
```

Or you can give the name of a specific module:

```
@with_jp = Encode->encodings("Encode::JP");
```

When "C<::>" is not in the name, "C<Encode::>" is assumed.

```
@ebcdic = Encode->encodings("EBCDIC");
```

To find out in detail which encodings are supported by this package, see L<Encode::Supported>.

```
=head2 Defining Aliases
```

To add a new alias to a given encoding, use:

```
use Encode;  
use Encode::Alias;
```

```
define_alias(NEWNAME => ENCODING);
```

After that, I<NEWNAME> can be used as an alias for I<ENCODING>. I<ENCODING> may be either the name of an encoding or an I<encoding object>.

Before you do that, first make sure the alias is nonexistent using C<resolve\_alias()>, which returns the canonical name thereof.

For example:

```
Encode::resolve_alias("latin1") eq "iso-8859-1" # true
Encode::resolve_alias("iso-8859-12") # false; nonexistent
Encode::resolve_alias($name) eq $name # true if $name is canonical
```

C<resolve\_alias()> does not need C<use Encode::Alias>; it can be imported via C<use Encode qw(resolve\_alias)>.

See L<Encode::Alias> for details.

=head2 Finding IANA Character Set Registry names

The canonical name of a given encoding does not necessarily agree with IANA Character Set Registry, commonly seen as C<< Content-Type: text/plain; charset=I<WHATEVER> >>. For most cases, the canonical name works, but sometimes it does not, most notably with "utf-8-strict".

As of C<Encode> version 2.21, a new method C<mime\_name()> is therefore added.

```
use Encode;
my $enc = find_encoding("UTF-8");
warn $enc->name; # utf-8-strict
warn $enc->mime_name; # UTF-8
```

See also: L<Encode::Encoding>

=head1 Encoding via PerlIO

If your perl supports C<PerlIO> (which is the default), you can use a C<PerlIO> layer to decode and encode directly via a filehandle. The following two examples are fully identical in functionality:

```
### Version 1 via PerlIO
open(INPUT, "< :encoding(shiftjis)", $infile)
  || die "Can't open < $infile for reading: $!";
open(OUTPUT, "> :encoding(euc-jp)", $outfile)
  || die "Can't open > $outfile for writing: $!";
while (<INPUT>) { # auto decodes $_
  print OUTPUT; # auto encodes $_
```

```

}
close(INPUT) || die "can't close $infile: $!";
close(OUTPUT) || die "can't close $outfile: $!";

### Version 2 via from_to()
open(INPUT, "<:raw", $infile)
  || die "Can't open <$infile for reading: $!";
open(OUTPUT, ">:raw", $outfile)
  || die "Can't open >$output for writing: $!";

while (<INPUT>) {
  from_to($_, "shiftjis", "euc-jp", 1); # switch encoding
  print OUTPUT; # emit raw (but properly encoded) data
}
close(INPUT) || die "can't close $infile: $!";
close(OUTPUT) || die "can't close $outfile: $!";

```

In the first version above, you let the appropriate encoding layer handle the conversion. In the second, you explicitly translate from one encoding to the other.

Unfortunately, it may be that encodings are C<PerlIO>-savvy. You can check to see whether your encoding is supported by C<PerlIO> by invoking the C<perlio\_ok> method on it:

```

Encode::perlio_ok("hz"); # false
find_encoding("euc-cn")->perlio_ok; # true wherever PerlIO is available

use Encode qw(perlio_ok); # imported upon request
perlio_ok("euc-jp")

```

Fortunately, all encodings that come with C<Encode> core are C<PerlIO>-savvy except for C<hz> and C<ISO-2022-kr>. For the gory details, see L<Encode::Encoding> and L<Encode::PerlIO>.

## =head1 Handling Malformed Data

The optional I<CHECK> argument tells C<Encode> what to do when encountering malformed data. Without I<CHECK>, C<Encode::FB\_DEFAULT> (== 0) is assumed.

As of version 2.12, C<Encode> supports coderef values for C<CHECK>; see below.

B<NOTE:> Not all encodings support this feature.

Some encodings ignore the I<CHECK> argument. For example, L<Encode::Unicode> ignores I<CHECK> and it always croaks on error.



=head2 List of I<CHECK> values

=head3 FB\_DEFAULT

I<CHECK> = Encode::FB\_DEFAULT ( == 0)

If I<CHECK> is 0, encoding and decoding replace any malformed character with a I<substitution character>. When you encode, I<SUBCHAR> is used. When you decode, the Unicode REPLACEMENT CHARACTER, code point U+FFFD, is used. If the data is supposed to be UTF-8, an optional lexical warning of warning category C<"utf8"> is given.

=head3 FB\_CROAK

I<CHECK> = Encode::FB\_CROAK ( == 1)

If I<CHECK> is 1, methods immediately die with an error message. Therefore, when I<CHECK> is 1, you should trap exceptions with C<eval{>, unless you really want to let it C<die>.

=head3 FB\_QUIET

I<CHECK> = Encode::FB\_QUIET

If I<CHECK> is set to C<Encode::FB\_QUIET>, encoding and decoding immediately return the portion of the data that has been processed so far when an error occurs. The data argument is overwritten with everything after that point; that is, the unprocessed portion of the data. This is handy when you have to call C<decode> repeatedly in the case where your source data may contain partial multi-byte character sequences, (that is, you are reading with a fixed-width buffer). Here's some sample code to do exactly that:

```
my($buffer, $string) = ("", "");
while (read($fh, $buffer, 256, length($buffer))) {
    $string .= decode($encoding, $buffer, Encode::FB_QUIET);
    # $buffer now contains the unprocessed partial character
}
```

=head3 FB\_WARN

I<CHECK> = Encode::FB\_WARN

This is the same as C<FB\_QUIET> above, except that instead of being silent on errors, it issues a warning. This is handy for when you are debugging.

=head3 FB\_PERLQQ FB\_HTMLCREF FB\_XMLCREF

=over 2

=item perlqq mode (I<CHECK> = Encode::FB\_PERLQQ)

=item HTML charref mode (I<CHECK> = Encode::FB\_HTMLCREF)

=item XML charref mode (I<CHECK> = Encode::FB\_XMLCREF)

=back

For encodings that are implemented by the C<Encode::XS> module, C<CHECK> C<===> C<Encode::FB\_PERLQQ> puts C<encode> and C<decode> into C<perlqq> fallback mode.

When you decode, C<\xI<HH>> is inserted for a malformed character, where I<HH> is the hex representation of the octet that could not be decoded to utf8. When you encode, C<\x{I<HHHH>}> will be inserted, where I<HHHH> is the Unicode code point (in any number of hex digits) of the character that cannot be found in the character repertoire of the encoding.

The HTML/XML character reference modes are about the same. In place of C<\x{I<HHHH>}>, HTML uses C<&#I<NNN>;> where I<NNN> is a decimal number, and XML uses C<&#xI<HHHH>;> where I<HHHH> is the hexadecimal number.

In C<Encode> 2.10 or later, C<LEAVE\_SRC> is also implied.

=head3 The bitmask

These modes are all actually set via a bitmask. Here is how the C<FB\_I<XXX>> constants are laid out. You can import the C<FB\_I<XXX>> constants via C<use Encode qw(:fallbacks)>, and you can import the generic bitmask constants via C<use Encode qw(:fallback\_all)>.

	FB_DEFAULT	FB_CROAK	FB_QUIET	FB_WARN	FB_PERLQQ
DIE_ON_ERR	0x0001	X			
WARN_ON_ERR	0x0002			X	
RETURN_ON_ERR	0x0004	X	X		
LEAVE_SRC	0x0008			X	
PERLQQ	0x0100			X	
HTMLCREF	0x0200				
XMLCREF	0x0400				

=head3 LEAVE\_SRC

Encode::LEAVE\_SRC

If the C<Encode::LEAVE\_SRC> bit is I<not> set but I<CHECK> is set, then the source string to encode() or decode() will be overwritten in place.

If you're not interested in this, then bitwise-OR it with the bitmask.

=head2 coderef for CHECK

As of C<Encode> 2.12, C<CHECK> can also be a code reference which takes the ordinal value of the unmapped character as an argument and returns a string that represents the fallback character. For instance:

```
$ascii = encode("ascii", $utf8, sub{ sprintf "<U+%04X>", shift });
```

Acts like C<FB\_PERLQQ> but U+I<XXXX> is used instead of C<\x{I<XXXX>}>.

=head1 Defining Encodings

To define a new encoding, use:

```
use Encode qw(define_encoding);
define_encoding($object, CANONICAL_NAME [, alias...]);
```

I<CANONICAL\_NAME> will be associated with I<\$object>. The object should provide the interface described in L<Encode::Encoding>.

If more than two arguments are provided, additional arguments are considered aliases for I<\$object>.

See L<Encode::Encoding> for details.

=head1 The UTF8 flag

Before the introduction of Unicode support in Perl, The C<eq> operator just compared the strings represented by two scalars. Beginning with Perl 5.8, C<eq> compares two strings with simultaneous consideration of I<the UTF8 flag>. To explain why we made it so, I quote from page 402 of I<Programming Perl, 3rd ed.>

=over 2

=item Goal #1:

Old byte-oriented programs should not spontaneously break on the old byte-oriented data they used to work on.

=item Goal #2:

Old byte-oriented programs should magically start working on the new character-oriented data when appropriate.

=item Goal #3:

Programs should run just as fast in the new character-oriented mode

as in the old byte-oriented mode.

=item Goal #4:

Perl should remain one language, rather than forking into a byte-oriented Perl and a character-oriented Perl.

=back

When I<Programming Perl, 3rd ed.> was written, not even Perl 5.6.0 had been born yet, many features documented in the book remained unimplemented for a long time. Perl 5.8 corrected much of this, and the introduction of the UTF8 flag is one of them. You can think of there being two fundamentally different kinds of strings and string-operations in Perl: one a byte-oriented mode for when the internal UTF8 flag is off, and the other a character-oriented mode for when the internal UTF8 flag is on.

Here is how C<Encode> handles the UTF8 flag.

=over 2

=item \*

When you I<encode>, the resulting UTF8 flag is always B<off>.

=item \*

When you I<decode>, the resulting UTF8 flag is B<on>--I<unless> you can unambiguously represent data. Here is what we mean by "unambiguously". After C<\$utf8 = decode("foo", \$octet)>,

When \$octet is... The UTF8 flag in \$utf8 is

```
-----  
In ASCII only (or EBCDIC only)      OFF  
In ISO-8859-1                       ON  
In any other Encoding               ON  
-----
```

As you see, there is one exception: in ASCII. That way you can assume Goal #1. And with C<Encode>, Goal #2 is assumed but you still have to be careful in the cases mentioned in the B<CAVEAT> paragraphs above.

This UTF8 flag is not visible in Perl scripts, exactly for the same reason you cannot (or rather, you I<don't have to>) see whether a scalar contains a string, an integer, or a floating-point number. But you can still peek and poke these if you will. See the next section.

=back

## =head2 Messing with Perl's Internals

The following API uses parts of Perl's internals in the current implementation. As such, they are efficient but may change in a future release.

### =head3 is\_utf8

is\_utf8(*STRING* [, *CHECK*])

[INTERNAL] Tests whether the UTF8 flag is turned on in the I<STRING>. If I<CHECK> is true, also checks whether I<STRING> contains well-formed UTF-8. Returns true if successful, false otherwise.

As of Perl 5.8.1, L<utf8> also has the C<utf8::is\_utf8> function.

### =head3 \_utf8\_on

\_utf8\_on(*STRING*)

[INTERNAL] Turns the I<STRING>'s internal UTF8 flag B<on>. The I<STRING> is I<not> checked for containing only well-formed UTF-8. Do not use this unless you I<know with absolute certainty> that the *STRING* holds only well-formed UTF-8. Returns the previous state of the UTF8 flag (so please don't treat the return value as indicating success or failure), or C<undef> if I<STRING> is not a string.

B<NOTE>: For security reasons, this function does not work on tainted values.

### =head3 \_utf8\_off

\_utf8\_off(*STRING*)

[INTERNAL] Turns the I<STRING>'s internal UTF8 flag B<off>. Do not use frivolously. Returns the previous state of the UTF8 flag, or C<undef> if I<STRING> is not a string. Do not treat the return value as indicative of success or failure, because that isn't what it means: it is only the previous setting.

B<NOTE>: For security reasons, this function does not work on tainted values.

## =head1 UTF-8 vs. utf8 vs. UTF8

...We now view strings not as sequences of bytes, but as sequences of numbers in the range 0 .. 2\*\*32-1 (or in the case of 64-bit computers, 0 .. 2\*\*64-1) -- Programming Perl, 3rd ed.

That has historically been Perl's notion of UTF-8, as that is how UTF-8 was first conceived by Ken Thompson when he invented it. However, thanks to later revisions to the applicable standards, official UTF-8 is now rather stricter than that. For example, its range is much narrower (0 .. 0x10\_FFFF to cover only 21 bits instead of 32 or 64 bits) and some sequences are not allowed, like those used in surrogate pairs, the 31 non-character code points 0xFDD0 .. 0xFDEF, the last two code points in I<any> plane (0xI<XX>\_FFFE and 0xI<XX>\_FFFF), all non-shortest encodings, etc.

The former default in which Perl would always use a loose interpretation of UTF-8 has now been overruled:

From: Larry Wall <larry@wall.org>  
Date: December 04, 2004 11:51:58 JST  
To: perl-unicode@perl.org  
Subject: Re: Make Encode.pm support the real UTF-8  
Message-Id: <20041204025158.GA28754@wall.org>

On Fri, Dec 03, 2004 at 10:12:12PM +0000, Tim Bunce wrote:  
: I've no problem with 'utf8' being perl's unrestricted uft8 encoding,  
: but "UTF-8" is the name of the standard and should give the  
: corresponding behaviour.

For what it's worth, that's how I've always kept them straight in my head.

Also for what it's worth, Perl 6 will mostly default to strict but make it easy to switch back to lax.

Larry

Got that? As of Perl 5.8.7, B<"UTF-8"> means UTF-8 in its current sense, which is conservative and strict and security-conscious, whereas B<"utf8"> means UTF-8 in its former sense, which was liberal and loose and lax. C<Encode> version 2.10 or later thus groks this subtle but critically important distinction between C<"UTF-8"> and C<"utf8">.

```
encode("utf8", "\x{FFFF_FFFF}", 1); # okay
encode("UTF-8", "\x{FFFF_FFFF}", 1); # croaks
```

In the C<Encode> module, C<"UTF-8"> is actually a canonical name for C<"utf-8-strict">. That hyphen between the C<"UTF"> and the C<"8"> is critical; without it, C<Encode> goes "liberal" and (perhaps overly-)permissive:

```
find_encoding("UTF-8")->name # is 'utf-8-strict'
find_encoding("utf-8")->name # ditto. names are case insensitive
find_encoding("utf_8")->name # ditto. "_" are treated as "-"
find_encoding("UTF8")->name # is 'utf8'.
```

Perl's internal UTF8 flag is called "UTF8", without a hyphen. It indicates whether a string is internally encoded as "utf8", also without a hyphen.

=head1 SEE ALSO

L<Encode::Encoding>,  
L<Encode::Supported>,  
L<Encode::PerlIO>,  
L<encoding>,  
L<perlebcdic>,  
L<perlfunc/open>,  
L<perlunicode>, L<perluniintro>, L<perlunifac>, L<perlunitut>  
L<utf8>,  
the Perl Unicode Mailing List L<<http://lists.perl.org/list/perl-unicode.html>>

=head1 MAINTAINER

This project was originated by the late Nick Ing-Simmons and later maintained by Dan Kogai I<< <[dankogai@cpan.org](mailto:dankogai@cpan.org)> >>. See AUTHORS for a full list of people involved. For any questions, send mail to I<< <[perl-unicode@perl.org](mailto:perl-unicode@perl.org)> >> so that we can all share.

While Dan Kogai retains the copyright as a maintainer, credit should go to all those involved. See AUTHORS for a list of those who submitted code to the project.

=head1 COPYRIGHT

Copyright 2002-2013 Dan Kogai I<< <[dankogai@cpan.org](mailto:dankogai@cpan.org)> >>.

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

=cut

Found in path(s):

\* /opt/cola/permits/1000848976\_1646171591.25/0/perl-Encode-2.51-7.el7.src.rpm-cosi-expand-archive-zE3mozfI/Encode-2.51.tar.gz-cosi-expand-archive-Fimf2xiA/Encode-2.51/Encode.pm

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

License: GPL+ or Artistic

Found in path(s):

\* /opt/cola/permits/1000848976\_1646171591.25/0/perl-Encode-2.51-7.el7.src.rpm-cosi-expand-archive-zE3mozfI/perl-Encode.spec

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

=head1 NAME

Encode::Supported -- Encodings supported by Encode

=head1 DESCRIPTION

=head2 Encoding Names

Encoding names are case insensitive. White space in names is ignored. In addition, an encoding may have aliases.

Each encoding has one "canonical" name. The "canonical" name is chosen from the names of the encoding by picking the first in the following sequence (with a few exceptions).

=over 2

=item \*

The name used by the Perl community. That includes 'utf8' and 'ascii'. Unlike aliases, canonical names directly reach the method so such frequently used words like 'utf8' don't need to do alias lookups.

=item \*

The MIME name as defined in IETF RFCs. This includes all "iso-"s.

=item \*

The name in the IANA registry.

=item \*

The name used by the organization that defined it.

=back

In case I<de jure> canonical names differ from that of the Encode module, they are always aliased if it ever be implemented. So you can safely tell if a given encoding is implemented or not just by passing the canonical name.

Because of all the alias issues, and because in the general case encodings have state, "Encode" uses an encoding object internally once an operation is in progress.

=head1 Supported Encodings

As of Perl 5.8.0, at least the following encodings are recognized.



Note that unless otherwise specified, they are all case insensitive (via alias) and all occurrence of spaces are replaced with '-'. In other words, "ISO 8859 1" and "iso-8859-1" are identical.

Encodings are categorized and implemented in several different modules but you don't have to `C<use Encode::XX>` to make them available for most cases. `Encode.pm` will automatically load those modules on demand.

## =head2 Built-in Encodings

The following encodings are always available.

Canonical	Aliases	Comments & References
ascii	US-ascii ISO-646-US	[ECMA]
ascii-ctrl	Special Encoding	
iso-8859-1	latin1	[ISO]
null	Special Encoding	
utf8	UTF-8	[RFC2279]

`I<null>` and `I<ascii-ctrl>` are special. "null" fails for all character so when you set fallback mode to `PERLQQ`, `HTMLCREF` or `XMLCREF`, ALL CHARACTERS will fall back to character references. Ditto for "ascii-ctrl" except for control characters. For fallback modes, see `L<Encode>`.

## =head2 Encode::Unicode -- other Unicode encodings

Unicode coding schemes other than native utf8 are supported by `Encode::Unicode`, which will be autoloaded on demand.

UCS-2BE	UCS-2, iso-10646-1	[IANA, UC]
UCS-2LE		[UC]
UTF-16		[UC]
UTF-16BE		[UC]
UTF-16LE		[UC]
UTF-32		[UC]
UTF-32BE	UCS-4	[UC]
UTF-32LE		[UC]
UTF-7		[RFC2152]

To find how `(UCS-2|UTF-(16|32))(LE|BE)?` differ from one another, see `L<Encode::Unicode>`.

UTF-7 is a special encoding which "re-encodes" UTF-16BE into a 7-bit

encoding. It is implemented separately by Encode::Unicode::UTF7.

=head2 Encode::Byte -- Extended ASCII

Encode::Byte implements most single-byte encodings except for Symbols and EBCDIC. The following encodings are based on single-byte encodings implemented as extended ASCII. Most of them map \x80-\xff (upper half) to non-ASCII characters.

=over 2

=item ISO-8859 and corresponding vendor mappings

Since there are so many, they are presented in table format with languages and corresponding encoding names by vendors. Note that the table is sorted in order of ISO-8859 and the corresponding vendor mappings are slightly different from that of ISO. See [L<http://czyborra.com/charsets/iso8859.html>](http://czyborra.com/charsets/iso8859.html) for details.

Lang/Regions	ISO/Other Std.	DOS	Windows	Macintosh	Others
--------------	----------------	-----	---------	-----------	--------

N. America	(ASCII)	cp437		AdobeStandardEncoding	
		cp863 (DOSCanadaF)			
W. Europe	iso-8859-1	cp850	cp1252	MacRoman	nextstep
			hp-roman8		
		cp860 (DOSPortuguese)			
Cntrl. Europe	iso-8859-2	cp852	cp1250	MacCentralEurRoman	
				MacCroatian	
				MacRomanian	
				MacRumanian	
Latin3[1]	iso-8859-3				
Latin4[2]	iso-8859-4				
Cyrillics	iso-8859-5	cp855	cp1251	MacCyrillic	
	(See also next section)	cp866		MacUkrainian	
Arabic	iso-8859-6	cp864	cp1256	MacArabic	
		cp1006		MacFarsi	
Greek	iso-8859-7	cp737	cp1253	MacGreek	
		cp869 (DOSGreek2)			
Hebrew	iso-8859-8	cp862	cp1255	MacHebrew	
Turkish	iso-8859-9	cp857	cp1254	MacTurkish	
Nordics	iso-8859-10	cp865			
		cp861		MacIcelandic	
				MacSami	
Thai	iso-8859-11[3]	cp874		MacThai	
	(iso-8859-12 is nonexistent. Reserved for Indics?)				
Baltics	iso-8859-13	cp775	cp1257		
Celtics	iso-8859-14				
Latin9 [4]	iso-8859-15				

Latin10 iso-8859-16  
Vietnamese viscii cp1258 MacVietnamese

- 
- [1] Esperanto, Maltese, and Turkish. Turkish is now on 8859-9.
  - [2] Baltics. Now on 8859-10, except for Latvian.
  - [3] TIS 620 + Non-Breaking Space (0xA0 / U+00A0)
  - [4] Nicknamed Latin0; the Euro sign as well as French and Finnish letters that are missing from 8859-1 were added.

All cp\* are also available as ibm-\*, ms-\*, and windows-\*. See also L<<http://czyborra.com/charsets/codepages.html>>.

Macintosh encodings don't seem to be registered in such entities as IANA. "Canonical" names in Encode are based upon Apple's Tech Note 1150. See L<<http://developer.apple.com/technotes/tn/tn1150.html>> for details.

=item KOI8 - De Facto Standard for the Cyrillic world

Though ISO-8859 does have ISO-8859-5, the KOI8 series is far more popular in the Net. L<Encode> comes with the following KOI charsets. For gory details, see L<<http://czyborra.com/charsets/cyrillic.html>>

-----

koi8-f	
koi8-r cp878	[RFC1489]
koi8-u	[RFC2319]

-----

=back

=head2 gsm0338 - Hentai Latin 1

GSM0338 is for GSM handsets. Though it shares alphanumerals with ASCII, control character ranges and other parts are mapped very differently, mainly to store Greek characters. There are also escape sequences (starting with 0x1B) to cover e.g. the Euro sign.

This was once handled by L<Encode::Bytes> but because of all those unusual specifications, Encode 2.20 has relocated the support to L<Encode::GSM0338>. See L<Encode::GSM0338> for details.

=over 2

=item gsm0338 support before 2.19

Some special cases like a trailing 0x00 byte or a lone 0x1B byte are not

well-defined and decode() will return an empty string for them.

One possible workaround is

```
$gsm =~ s/\x00\z/\x00\x00/;
$uni = decode("gsm0338", $gsm);
$uni .= "\xA0" if $gsm =~ /\x1B\z/;
```

Note that the Encode implementation of GSM0338 does not implement the reuse of Latin capital letters as Greek capital letters (for example, the 0x5A is U+005A (LATIN CAPITAL LETTER Z), not U+0396 (GREEK CAPITAL LETTER ZETA)).

The GSM0338 is also covered in Encode::Byte even though it is not an "extended ASCII" encoding.

=back

=head2 CJK: Chinese, Japanese, Korean (Multibyte)

Note that Vietnamese is listed above. Also read "Encoding vs Charset" below. Also note that these are implemented in distinct modules by countries, due to the size concerns (simplified Chinese is mapped to 'CN', continental China, while traditional Chinese is mapped to 'TW', Taiwan). Please refer to their respective documentation pages.

=over 2

=item Encode::CN -- Continental China

Standard	DOS/Win Macintosh	Comment/Reference
-----		
euc-cn [1]	MacChineseSimp	
(gbk)	cp936 [2]	
gb12345-raw		{ GB12345 without CES }
gb2312-raw		{ GB2312 without CES }
hz		
iso-ir-165		
-----		

[1] GB2312 is aliased to this. See L<Microsoft-related naming mess>

[2] gbk is aliased to this. See L<Microsoft-related naming mess>

=item Encode::JP -- Japan

Standard	DOS/Win Macintosh	Comment/Reference
-----		
euc-jp		
shiftjis	cp932 macJapanese	

7bit-jis  
 iso-2022-jp [RFC1468]  
 iso-2022-jp-1 [RFC2237]  
 jis0201-raw { JIS X 0201 (roman + halfwidth kana) without CES }  
 jis0208-raw { JIS X 0208 (Kanji + fullwidth kana) without CES }  
 jis0212-raw { JIS X 0212 (Extended Kanji) without CES }

-----  
 =item Encode::KR -- Korea

Standard	DOS/Win Macintosh	Comment/Reference
-----		
euc-kr	MacKorean	[RFC1557]
	cp949 [1]	
iso-2022-kr		[RFC1557]
johab		[KS X 1001:1998, Annex 3]
ksc5601-raw		{ KSC5601 without CES }

-----  
 [1] ks\_c\_5601-1987, (x-)?windows-949, and uhc are aliased to this.  
 See below.

=item Encode::TW -- Taiwan

Standard	DOS/Win Macintosh	Comment/Reference
-----		
big5-eten	cp950 MacChineseTrad	{big5 aliased to big5-eten}
big5-hkscs		

-----  
 =item Encode::HanExtra -- More Chinese via CPAN

Due to the size concerns, additional Chinese encodings below are distributed separately on CPAN, under the name Encode::HanExtra.

Standard	DOS/Win Macintosh	Comment/Reference
-----		
big5ext		CMEX's Big5e Extension
big5plus		CMEX's Big5+ Extension
cccii		Chinese Character Code for Information Interchange
euc-tw		EUC (Extended Unix Character)
gb18030		GBK with Traditional Characters

-----  
 =item Encode::JIS2K -- JIS X 0213 encodings via CPAN

Due to size concerns, additional Japanese encodings below are distributed separately on CPAN, under the name Encode::JIS2K.

Standard    DOS/Win Macintosh            Comment/Reference

-----  
euc-jisx0213  
shiftjisx0123  
iso-2022-jp-3  
jis0213-1-raw  
jis0213-2-raw  
-----

=back

=head2 Miscellaneous encodings

=over 2

=item Encode::EBCDIC

See L<perlebcidic> for details.

-----  
cp37  
cp500  
cp875  
cp1026  
cp1047  
posix-bc  
-----

=item Encode::Symbols

For symbols and dingbats.

-----  
symbol  
dingbats  
MacDingbats  
AdobeZdingbat  
AdobeSymbol  
-----

=item Encode::MIME::Header

Strictly speaking, MIME header encoding documented in RFC 2047 is more of encapsulation than encoding. However, their support in modern world is imperative so they are supported.

MIME-Header [RFC2047]

MIME-B [RFC2047]

MIME-Q [RFC2047]

-----  
=item Encode::Guess

This one is not a name of encoding but a utility that lets you pick up the most appropriate encoding for a data out of given I<suspects>. See L<Encode::Guess> for details.

=back

=head1 Unsupported encodings

The following encodings are not supported as yet; some because they are rarely used, some because of technical difficulties. They may be supported by external modules via CPAN in the future, however.

=over 2

=item ISO-2022-JP-2 [RFC1554]

Not very popular yet. Needs Unicode Database or equivalent to implement encode() (because it includes JIS X 0208/0212, KSC5601, and GB2312 simultaneously, whose code points in Unicode overlap. So you need to lookup the database to determine to what character set a given Unicode character should belong).

=item ISO-2022-CN [RFC1922]

Not very popular. Needs CNS 11643-1 and -2 which are not available in this module. CNS 11643 is supported (via euc-tw) in Encode::HanExtra. Autrijus Tang may add support for this encoding in his module in future.

=item Various HP-UX encodings

The following are unsupported due to the lack of mapping data.

'8' - arabic8, greek8, hebrew8, kana8, thai8, and turkish8

'15' - japanese15, korean15, and roi15

=item Cyrillic encoding ISO-IR-111

Anton Tagunov doubts its usefulness.

=item ISO-8859-8-1 [Hebrew]

None of the Encode team knows Hebrew enough (ISO-8859-8, cp1255 and MacHebrew are supported because and just because there were mappings available at [L<http://www.unicode.org/>](http://www.unicode.org/)). Contributions welcome.

=item ISIRI 3342, Iran System, ISIRI 2900 [Farsi]

Ditto.

=item Thai encoding TCVN

Ditto.

=item Vietnamese encodings VPS

Though Jungshik Shin has reported that Mozilla supports this encoding, it was too late before 5.8.0 for us to add it. In the future, it may be available via a separate module. See

[L<http://lxr.mozilla.org/seamonkey/source/intl/uconv/ucvlatin/vps.uf>](http://lxr.mozilla.org/seamonkey/source/intl/uconv/ucvlatin/vps.uf)  
and

[L<http://lxr.mozilla.org/seamonkey/source/intl/uconv/ucvlatin/vps.ut>](http://lxr.mozilla.org/seamonkey/source/intl/uconv/ucvlatin/vps.ut)  
if you are interested in helping us.

=item Various Mac encodings

The following are unsupported due to the lack of mapping data.

MacArmenian, MacBengali, MacBurmese, MacEthiopic  
MacExtArabic, MacGeorgian, MacKannada, MacKhmer  
MacLaotian, MacMalayalam, MacMongolian, MacOriya  
MacSinhalese, MacTamil, MacTelugu, MacTibetan  
MacVietnamese

The rest which are already available are based upon the vendor mappings at [L<http://www.unicode.org/Public/MAPPINGS/VENDORS/APPLE/>](http://www.unicode.org/Public/MAPPINGS/VENDORS/APPLE/) .

=item (Mac) Indic encodings

The maps for the following are available at [L<http://www.unicode.org/>](http://www.unicode.org/)  
but remain unsupported because those encodings need an algorithmical approach, currently unsupported by F<enc2xs>:

MacDevanagari  
MacGurmukhi  
MacGujarati

For details, please see C<Unicode mapping issues and notes:> at [L<http://www.unicode.org/Public/MAPPINGS/VENDORS/APPLE/DEVANAGA.TXT>](http://www.unicode.org/Public/MAPPINGS/VENDORS/APPLE/DEVANAGA.TXT) .



I believe this issue is prevalent not only for Mac Indic but also in other Indic encodings, but the above were the only Indic encodings maps that I could find at [L<http://www.unicode.org/>](http://www.unicode.org/) .

=back

=head1 Encoding vs. Charset -- terminology

We are used to using the term (character) I<encoding> and I<character set> interchangeably. But just as confusing the terms byte and character is dangerous and the terms should be differentiated when needed, we need to differentiate I<encoding> and I<character set>.

To understand that, here is a description of how we make computers grok our characters.

=over 2

=item \*

First we start with which characters to include. We call this collection of characters I<character repertoire>.

=item \*

Then we have to give each character a unique ID so your computer can tell the difference between 'a' and 'A'. This itemized character repertoire is now a I<character set>.

=item \*

If your computer can grow the character set without further processing, you can go ahead and use it. This is called a I<coded character set> (CCS) or I<raw character encoding>. ASCII is used this way for most cases.

=item \*

But in many cases, especially multi-byte CJK encodings, you have to tweak a little more. Your network connection may not accept any data with the Most Significant Bit set, and your computer may not be able to tell if a given byte is a whole character or just half of it. So you have to I<encode> the character set to use it.

A I<character encoding scheme> (CES) determines how to encode a given character set, or a set of multiple character sets. 7bit ISO-2022 is an example of a CES. You switch between character sets via I<escape sequences>.

=back

Technically, or mathematically, speaking, a character set encoded in such a CES that maps character by character may form a CCS. EUC is such an example. The CES of EUC is as follows:

=over 2

=item \*

Map ASCII unchanged.

=item \*

Map such a character set that consists of 94 or 96 powered by N members by adding 0x80 to each byte.

=item \*

You can also use 0x8e and 0x8f to indicate that the following sequence of characters belongs to yet another character set. To each following byte is added the value 0x80.

=back

By carefully looking at the encoded byte sequence, you can find that the byte sequence conforms a unique number. In that sense, EUC is a CCS generated by a CES above from up to four CCS (complicated?). UTF-8 falls into this category. See [L<perlUnicode/"UTF-8">](#) to find out how UTF-8 maps Unicode to a byte sequence.

You may also have found out by now why 7bit ISO-2022 cannot comprise a CCS. If you look at a byte sequence `\x21\x21`, you can't tell if it is two '!'s or IDEOGRAPHIC SPACE. EUC maps the latter to `\xA1\xA1` so you have no trouble differentiating between "!!". and S<" ">.

=head1 Encoding Classification (by Anton Tagunov and Dan Kogai)

This section tries to classify the supported encodings by their applicability for information exchange over the Internet and to choose the most suitable aliases to name them in the context of such communication.

=over 2

=item \*

To (en|de)code encodings marked by C<(\*)>, you need C<Encode::HanExtra>, available from CPAN.

=back

Encoding names

US-ASCII UTF-8 ISO-8859-\* KOI8-R  
Shift\_JIS EUC-JP ISO-2022-JP ISO-2022-JP-1  
EUC-KR Big5 GB2312

are registered with IANA as preferred MIME names and may be used over the Internet.

C<Shift\_JIS> has been officialized by JIS X 0208:1997.  
L<Microsoft-related naming mess> gives details.

C<GB2312> is the IANA name for C<EUC-CN>.  
See L<Microsoft-related naming mess> for details.

C<GB\_2312-80> I<raw> encoding is available as C<gb2312-raw> with Encode. See L<Encode::CN> for details.

EUC-CN  
KOI8-U [RFC2319]

have not been registered with IANA (as of March 2002) but seem to be supported by major web browsers.  
The IANA name for C<EUC-CN> is C<GB2312>.

KS\_C\_5601-1987

is heavily misused.  
See L<Microsoft-related naming mess> for details.

C<KS\_C\_5601-1987> I<raw> encoding is available as C<kcs5601-raw> with Encode. See L<Encode::KR> for details.

UTF-16 UTF-16BE UTF-16LE

are IANA-registered C<charset>s. See [RFC 2781] for details.  
Jungshik Shin reports that UTF-16 with a BOM is well accepted by MS IE 5/6 and NS 4/6. Beware however that

=over 2

=item \*

C<UTF-16> support in any software you're going to be using/interoperating with has probably been less tested than C<UTF-8> support

=item \*

C<UTF-8> coded data seamlessly passes traditional command piping (C<cat>, C<more>, etc.) while C<UTF-16> coded data is likely to cause confusion (with its zero bytes, for example)

=item \*

it is beyond the power of words to describe the way HTML browsers encode non-C<ASCII> form data. To get a general impression, visit [L<http://www.alanflavell.org.uk/charset/form-i18n.html>](http://www.alanflavell.org.uk/charset/form-i18n.html).

While encoding of form data has stabilized for C<UTF-8> encoded pages (at least IE 5/6, NS 6, and Opera 6 behave consistently), be sure to expect fun (and cross-browser discrepancies) with C<UTF-16> encoded pages!

=back

The rule of thumb is to use C<UTF-8> unless you know what you're doing and unless you really benefit from using C<UTF-16>.

ISO-IR-165 [RFC1345]

VISCII

GB 12345

GB 18030 (\*\*) (see links bellow)

EUC-TW (\*\*)

are totally valid encodings but not registered at IANA.

The names under which they are listed here are probably the most widely-known names for these encodings and are recommended names.

BIG5PLUS (\*\*)

is a proprietary name.

=head2 Microsoft-related naming mess

Microsoft products misuse the following names:

=over 2

=item KS\_C\_5601-1987

Microsoft extension to C<EUC-KR>.

Proper names: C<CP949>, C<UHC>, C<x-windows-949> (as used by Mozilla).

See L<<http://lists.w3.org/Archives/Public/ietf-charsets/2001AprJun/0033.html>> for details.

Encode aliases C<KS\_C\_5601-1987> to C<cp949> to reflect this common misuse. I<Raw> C<KS\_C\_5601-1987> encoding is available as C<kcs5601-raw>.

See L<Encode::KR> for details.

=item GB2312

Microsoft extension to C<EUC-CN>.

Proper names: C<CP936>, C<GBK>.

C<GB2312> has been registered in the C<EUC-CN> meaning at IANA. This has partially repaired the situation: Microsoft's C<GB2312> has become a superset of the official C<GB2312>.

Encode aliases C<GB2312> to C<euc-cn> in full agreement with IANA registration. C<cp936> is supported separately. I<Raw> C<GB\_2312-80> encoding is available as C<gb2312-raw>.

See L<Encode::CN> for details.

=item Big5

Microsoft extension to C<Big5>.

Proper name: C<CP950>.

Encode separately supports C<Big5> and C<cp950>.

=item Shift\_JIS

Microsoft's understanding of C<Shift\_JIS>.

JIS has not endorsed the full Microsoft standard however. The official C<Shift\_JIS> includes only JIS X 0201 and JIS X 0208 character sets, while Microsoft has always used C<Shift\_JIS> to encode a wider character repertoire. See C<IANA> registration for C<Windows-31J>.

As a historical predecessor, Microsoft's variant probably has more rights for the name, though it may be objected that Microsoft shouldn't have used JIS as part of the name in the first place.

Unambiguous name: C<CP932>. C<IANA> name (also used by Mozilla, and provided as an alias by Encode): C<Windows-31J>.

Encode separately supports C<Shift\_JIS> and C<cp932>.

=back

=head1 Glossary

=over 2

=item character repertoire

A collection of unique characters. A I<character> set in the strictest sense. At this stage, characters are not numbered.

=item coded character set (CCS)

A character set that is mapped in a way computers can use directly. Many character encodings, including EUC, fall in this category.

=item character encoding scheme (CES)

An algorithm to map a character set to a byte sequence. You don't have to be able to tell which character set a given byte sequence belongs to. 7-bit ISO-2022 is a CES but it cannot be a CCS. EUC is an example of being both a CCS and CES.

=item charset (in MIME context)

has long been used in the meaning of C<encoding>, CES.

While the word combination C<character set> has lost this meaning in MIME context since [RFC 2130], the C<charset> abbreviation has retained it. This is how [RFC 2277] and [RFC 2278] bless C<charset>:

This document uses the term "charset" to mean a set of rules for mapping from a sequence of octets to a sequence of characters, such as the combination of a coded character set and a character encoding scheme; this is also what is used as an identifier in MIME "charset=" parameters, and registered in the IANA charset registry ... (Note that this is NOT a term used by other standards bodies, such as ISO). [RFC 2277]

=item EUC

Extended Unix Character. See ISO-2022.

=item ISO-2022

A CES that was carefully designed to coexist with ASCII. There are a 7 bit version and an 8 bit version.

The 7 bit version switches character set via escape sequence so it cannot form a CCS. Since this is more difficult to handle in programs than the 8 bit version, the 7 bit version is not very popular except for iso-2022-jp, the I<de facto> standard CES for e-mails.

The 8 bit version can form a CCS. EUC and ISO-8859 are two examples thereof. Pre-5.6 perl could use them as string literals.

=item UCS

Short for I<Universal Character Set>. When you say just UCS, it means I<Unicode>.

=item UCS-2

ISO/IEC 10646 encoding form: Universal Character Set coded in two octets.

=item Unicode

A character set that aims to include all character repertoires of the world. Many character sets in various national as well as industrial standards have become, in a way, just subsets of Unicode.

=item UTF

Short for I<Unicode Transformation Format>. Determines how to map a Unicode character into a byte sequence.

=item UTF-16

A UTF in 16-bit encoding. Can either be in big endian or little endian. The big endian version is called UTF-16BE (equal to UCS-2 + surrogate support) and the little endian version is called UTF-16LE.

=back

=head1 See Also

L<Encode>,  
L<Encode::Byte>,  
L<Encode::CN>, L<Encode::JP>, L<Encode::KR>, L<Encode::TW>,  
L<Encode::EBCDIC>, L<Encode::Symbol>  
L<Encode::MIME::Header>, L<Encode::Guess>

=head1 References

=over 2

=item ECMA

European Computer Manufacturers Association

L<<http://www.ecma.ch>>

=over 2

=item ECMA-035 (eq C<ISO-2022>)

L<<http://www.ecma.ch/ecma1/STAND/ECMA-035.HTM>>

The specification of ISO-2022 is available from the link above.

=back

=item IANA

Internet Assigned Numbers Authority

L<<http://www.iana.org/>>

=over 2

=item Assigned Charset Names by IANA

L<<http://www.iana.org/assignments/character-sets>>

Most of the C<canonical names> in Encode derive from this list  
so you can directly apply the string you have extracted from MIME  
header of mails and web pages.

=back

=item ISO

International Organization for Standardization

L<<http://www.iso.ch/>>



=item RFC

Request For Comments -- need I say more?

L<<http://www.rfc-editor.org/>>, L<<http://www.ietf.org/rfc.html>>,  
L<<http://www.faqs.org/rfcs/>>

=item UC

Unicode Consortium

L<<http://www.unicode.org/>>

=over 2

=item Unicode Glossary

L<<http://www.unicode.org/glossary/>>

The glossary of this document is based upon this site.

=back

=back

=head2 Other Notable Sites

=over 2

=item czyborra.com

L<<http://czyborra.com/>>

Contains a lot of useful information, especially gory details of ISO  
vs. vendor mappings.

=item CJK.inf

L<<http://examples.oreilly.com/cjkvinfo/doc/cjk.inf>>

Somewhat obsolete (last update in 1996), but still useful. Also try

L<[ftp://ftp.oreilly.com/pub/examples/nutshell/cjkv/pdf/GB18030\\_Summary.pdf](ftp://ftp.oreilly.com/pub/examples/nutshell/cjkv/pdf/GB18030_Summary.pdf)>

You will find brief info on C<EUC-CN>, C<GBK> and mostly on C<GB 18030>.

=item Jungshik Shin's Hangul FAQ

L<<http://jshin.net/faq>>

And especially its subject 8.

L<<http://jshin.net/faq/qa8.html>>

A comprehensive overview of the Korean (C<KS \*>) standards.

=item debian.org: "Introduction to i18n"

A brief description for most of the mentioned CJK encodings is contained in

L<<http://www.debian.org/doc/manuals/intro-i18n/ch-codes.en.html>>

=back

=head2 Offline sources

=over 2

=item C<CJKV Information Processing> by Ken Lunde

CJKV Information Processing

1999 O'Reilly & Associates, ISBN : 1-56592-224-7

The modern successor of C<CJK.inf>.

Features a comprehensive coverage of CJKV character sets and encodings along with many other issues faced by anyone trying to better support CJKV languages/scripts in all the areas of information processing.

To purchase this book, visit

L<<http://oreilly.com/catalog/9780596514471/>>

or your favourite bookstore.

=back

=cut

Found in path(s):

\* /opt/cola/permits/1000848976\_1646171591.25/0/perl-Encode-2.51-7.el7.src.rpm-cosi-expand-archive-zE3mozfl/Encode-2.51.tar.gz-cosi-expand-archive-Fimf2xiA/Encode-2.51/lib/Encode/Supported.pod

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 6.66, CPAN::Meta::Converter version 2.130880'  
license: perl  
meta-spec:  
url: <http://module-build.sourceforge.net/META-spec-v1.4.html>  
version: 1.4  
name: Encode  
no\_index:  
directory:  
- t  
- inc  
requires: {}  
version: 2.51

Found in path(s):

\* /opt/cola/permits/1000848976\_1646171591.25/0/perl-Encode-2.51-7.el7.src.rpm-cosi-expand-archive-zE3mozfI/Encode-2.51.tar.gz-cosi-expand-archive-Fimf2xiA/Encode-2.51/META.yml

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

Encode::\$\_Name\_ version 0.1

=====

## NAME

Encode::\$\_Name\_ - <describe encoding>

## SYNOPSIS

```
use Encode::$_Name_;  
#<put more words here>
```

## ABSTRACT

<fill this in>

## INSTALLATION

To install this module type the following:

```
perl Makefile.PL  
make  
make test  
make install
```

## DEPENDENCIES

This module requires perl version 5.7.3 or later.

## COPYRIGHT AND LICENCE

Copyright (C) 2002 Your Name <your@address.domain>

This library 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/1000848976\_1646171591.25/0/perl-Encode-2.51-7.el7.src.rpm-cosi-expand-archive-zE3mozfI/Encode-2.51.tar.gz-cosi-expand-archive-Fimf2xiA/Encode-2.51/Encode/README.e2x

# 1.318 xz 5.2.2 1.el7

## 1.318.1 Available under license :

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.]

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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

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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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Version 3, 29 June 2007

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=====

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```
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```
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```

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# -\*- coding: utf-8 -\*-

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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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# 1.320 perl-getopt-long 2.40-3.el7

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

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# 1.325 perl-file-path 2.09-2.el7

## 1.325.1 Available under license :

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Found in path(s):

\* /opt/cola/permits/1000849027\_1646171591.96/0/perl-File-Path-2.09-2.el7.src.rpm-cosi-expand-archive-bdEsd6ze/perl-File-Path.spec

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

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\* /opt/cola/permits/1000849027\_1646171591.96/0/perl-File-Path-2.09-2.el7.src.rpm-cosi-expand-archive-bdEsd6ze/File-Path-2.09.tar.gz-cosi-expand-archive-qBuSCUkq/File-Path-2.09/META.yml

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

=head1 NAME

File::Path - Create or remove directory trees

=head1 VERSION

This document describes version 2.09 of File::Path, released 2013-01-17.

=head1 SYNOPSIS

```
use File::Path qw(make_path remove_tree);
```

```
make_path('foo/bar/baz', '/zug/zwang');
make_path('foo/bar/baz', '/zug/zwang', {
    verbose => 1,
    mode => 0711,
});
```

```
remove_tree('foo/bar/baz', '/zug/zwang');
remove_tree('foo/bar/baz', '/zug/zwang', {
    verbose => 1,
    error => \my $err_list,
});
```

```
# legacy (interface promoted before v2.00)
mkpath('/foo/bar/baz');
mkpath('/foo/bar/baz', 1, 0711);
mkpath(['/foo/bar/baz', 'blurfl/quux'], 1, 0711);
rmtree('foo/bar/baz', 1, 1);
rmtree(['/foo/bar/baz', 'blurfl/quux'], 1, 1);
```

```
# legacy (interface promoted before v2.06)
mkpath('foo/bar/baz', '/zug/zwang', { verbose => 1, mode => 0711 });
rmtree('foo/bar/baz', '/zug/zwang', { verbose => 1, mode => 0711 });
```

=head1 DESCRIPTION

This module provide 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

exists 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 `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 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 will 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 as username is assumed. An error will be issued if the username cannot be mapped to a `uid`, or 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 as group name is assumed. An error will be issued if the group name cannot be mapped to a gid, or 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 mkpath() function provide the legacy interface of make\_path() with a different interpretation of the arguments passed. The behaviour and return value of the function is otherwise identical to 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 -r> or C<del /s> on Windows.

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

The functions 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 rmtree() function provide the legacy interface of remove\_tree() with a different interpretation of the arguments passed. The behaviour and return value of the function is otherwise identical to remove\_tree().

=back

=head2 ERROR HANDLING

=over 4

=item B<NOTE:>

The following error handling mechanism is considered experimental and is subject to change pending feedback from users.

=back

If C<make\_path> or C<remove\_tree> encounter 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) {
  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 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.nntp.perl.org/group/perl.perl5.porters/2005/01/msg97623.html>  
<http://www.debian.org/security/2005/dsa-696>

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.

### =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 they are not trapped, or 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 have 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 because some objects that were unable to be removed remain in the directory, or

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

Please report all bugs on the RT queue:

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

You can also send pull requests to the Github repository:

L<<https://github.com/dland/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

Tim Bunce and Charles Bailey. Currently maintained by David Landgren <F<david@landgren.net>>.

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=cut

Found in path(s):

\* /opt/cola/permits/1000849027\_1646171591.96/0/perl-File-Path-2.09-2.el7.src.rpm-cosi-expand-archive-bdEsd6ze/File-Path-2.09.tar.gz-cosi-expand-archive-qBuSCUkq/File-Path-2.09/Path.pm

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This file is the README for File::Path version 2.09

## INSTALLATION

perl Makefile.PL

make

make test

make install

## TESTING

This module requires the following modules for thorough testing:

(These are core, you should be ok)

Cwd

File::Path

File::Spec::Functions

Test::More

(These are optional)

Test::Output

Test::Pod

Test::Pod::Coverage

For more advanced testing, it is possible to run the eg/setup-extra-tests program as root. This will create a directory 'EXTRA' that contains a mixture of files and directories owned both by root and a specified user (uid or login name).

```
sudo perl eg/setup-extra-tests -u david
```

```
make test
```

This is used to exercise parts of the code that ordinarily wouldn't be visited. That is, as root, some files and directories will be created that the user 'david', which will run the test suite, will not be able to remove.

It would be nice to do something tricky like this for Win32, which has a much richer privilege scheme.

## BUGS

Please report all bugs on the RT queue:

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

You can also send pull requests to the Github repository:

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

## AUTHORS

Tim Bunce and Charles Bailey.

Currently maintained by David Landgren <david@landgren.net>.

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Found in path(s):

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# 1.326 unzip 6.0 21.el7

## 1.326.1 Available under license :

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---

This is the Info-ZIP file COPYING (for UnZip), last updated 17 Jul 2000.

---

FIRST NOTE:

This file contains some details about the copyright history of contributions to the UnZip project.

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 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)
* Copyright 1992-1998 Apple Computer, Inc.
* Portions copyright 1995 Jim Luther
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*
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* having made changes. If you're going to
* redistribute the source, we require that you make
* it clear in the source that the code was descended
* from Apple Sample Code, but that you've made
* changes."
```

The usage terms of this copyright note are compatible with the

Info-ZIP license, they do not add further restrictions.

The following copyright applies to the Mac OS "macbin3" decoding code (extra field compatibility with ZipIt):

```
* MacBinaryIII.h
*
* Copyright 1997 Christopher Evans (cevens@poppybank.com)
*
* Basic encoding and decoding of Macintosh files to the
* MacBinary III spec.
* -----
* This source is copyrighted by Christopher Evans (cevens@poppybank.com)
* (available at ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit
* homepage of Leonard Rosenthol leonardr@netcom.com)
```

This copyright note does not contain any usage terms. So, we assume that this code is freely reusable until we are proved wrong...

-----

The remaining copyright notes have been superseded by the new Info-ZIP license, with explicit permission from the respective original authors. They are cited here for historical reasons, only:

The following copyright applies to the full-featured unreduce.c (now distributed separately):

```
* Copyright 1989 Samuel H. Smith; All rights reserved
*
* Do not distribute modified versions without my permission.
* Do not remove or alter this notice or any other copyright notice.
* If you use this in your own program you must distribute source code.
* 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.

-----

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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- \* are made.) Corporate legal staff (like at IBM :-)) who have
- \* problems understanding this can contact me through Zip-Bugs...

-----

The following copyright applied to the Windows DLL code (windll/\*), distributed with UnZip version 5.2 and later:

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- \* copyright notice is retained.

-----

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- \* All the source files for Pocket UnZip, except for components
- \* written by the Info-ZIP group, are copyrighted 1997 by Steve P.
- \* Miller. The product "Pocket UnZip" itself is property of the
- \* author and cannot be altered in any way without written consent
- \* 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.

-----

## 1.327 vt-dictionary 3.0

## 1.328 python-urlgrabber 3.10 10.e17

### 1.328.1 Available under license :

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Version 2.1, February 1999

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## 1.333 tuned 2.13.0-1.ph3

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# Files that don't get a copyright, or which are taken from elsewhere.  
#  
# All lines in this file are patterns, including the comment lines; this  
# means that e.g. `FTL.TXT' matches all files that have this string in  
# the file name (including the path relative to the current directory,  
# always starting with `./').  
#  
# Don't put empty lines into this file!  
#  
.gitignore  
#  
builds/unix/pkg.m4  
#  
docs/FTL.TXT  
docs/GPLv2.TXT  
#  
include/freetype/internal/fthash.h  
#  
src/base/fthash.c  
src/base/md5.c  
src/base/md5.h  
#  
src/bdf/bdf.c
```

```
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
# EOF
```

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```

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<signature of Ty Coon>, 1 April 1989
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--- end of FTL.TXT ---

## 1.336 jackson-dataformat-yaml 2.10.2

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```

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

This General Public License does not permit incorporating your program into  
proprietary programs. If your program is a subroutine library, you may  
consider it more useful to permit linking proprietary applications with the  
library. If this is what you want to do, use the GNU Library General  
Public License instead of this License.

## 1.340 vim 7.4.629-7.e17

### 1.340.1 Available under license :

\*uganda.txt\* For Vim version 7.4. Last change: 2013 Jul 06



*\*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

D) 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.

III) If you distribute a modified version of Vim, you are encouraged to use the Vim license for your changes and make them available to the maintainer, including the source code. The preferred way to do this is by e-mail or by uploading the files to a server and e-mailing the URL. 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 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 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:

[https://www.paypal.com/en\\_US/mrb/pal=XAC62PML3GF8Q](https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q)

The e-mail address for sending the money to is:

[Bram@iccf-holland.org](mailto: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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 \*/

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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

## 1.341 snake-yaml 1.24

### 1.341.1 Available under license :

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

```
<name>Apache License, Version 2.0</name>
<url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
```

Found in path(s):

```
* /opt/cola/permits/1150997427_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/META-
INF/maven/org.yaml/snakeyaml/pom.xml
```

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

```
// This module is multi-licensed and may be used under the terms
// EPL, Eclipse Public License, V1.0 or later, http://www.eclipse.org/legal
// LGPL, GNU Lesser General Public License, V2.1 or later, http://www.gnu.org/licenses/lgpl.html
// GPL, GNU General Public License, V2 or later, http://www.gnu.org/licenses/gpl.html
// AL, Apache License, V2.0 or later, http://www.apache.org/licenses
```

```
// BSD, BSD License, http://www.opensource.org/licenses/bsd-license.php
/**
 * A Base64 encoder/decoder.
 *
 * <p>
 * This class is used to encode and decode data in Base64 format as described in
 * RFC 1521.
 *
 * <p>
 * Project home page: <a
 * href="http://www.source-code.biz/base64coder/java/">www.
 * source-code.biz/base64coder/java</a><br>
 * Author: Christian d'Heureuse, Inventec Informatik AG, Zurich, Switzerland<br>
 * Multi-licensed: EPL / LGPL / GPL / AL / BSD.
 */
```

Found in path(s):

```
* /opt/cola/permits/1150997427_1654022970.1301146/0/snakeyaml-1-24-sources-7-
jar/org/yaml/snakeyaml/external/biz/base64Coder/Base64Coder.java
```

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

```
/**
 * Copyright (c) 2008, http://www.snakeyaml.org
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1150997427_1654022970.1301146/0/snakeyaml-1-24-sources-7-
jar/org/yaml/snakeyaml/constructor/ConstructorException.java
* /opt/cola/permits/1150997427_1654022970.1301146/0/snakeyaml-1-24-sources-7-
jar/org/yaml/snakeyaml/util/ArrayUtils.java
* /opt/cola/permits/1150997427_1654022970.1301146/0/snakeyaml-1-24-sources-7-
jar/org/yaml/snakeyaml/events/ScalarEvent.java
* /opt/cola/permits/1150997427_1654022970.1301146/0/snakeyaml-1-24-sources-7-
jar/org/yaml/snakeyaml/tokens/TagToken.java
* /opt/cola/permits/1150997427_1654022970.1301146/0/snakeyaml-1-24-sources-7-
jar/org/yaml/snakeyaml/serializer/AnchorGenerator.java
```



\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/emitter/EmitterState.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/tokens/StreamStartToken.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/emitter/EmitterException.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/tokens/KeyToken.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/constructor/Construct.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/tokens/BlockMappingStartToken.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/introspector/FieldProperty.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/tokens/DocumentEndToken.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/constructor/SafeConstructor.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/parser/VersionTagsTuple.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/reader/StreamReader.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/emitter/Emitable.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/events/DocumentEndEvent.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/events/Event.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/tokens/FlowMappingStartToken.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/parser/Parser.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/tokens/DocumentStartToken.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/composer/Composer.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/events/StreamEndEvent.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/introspector/MissingProperty.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/nodes/CollectionNode.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/tokens/ValueToken.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/reader/UnicodeReader.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/scanner/SimpleKey.java

\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/tokens/ScalarToken.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/introspector/BeanAccess.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/tokens/BlockSequenceStartToken.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/resolver/Resolver.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/Yaml.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/scanner/Constant.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/parser/ParserException.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/constructor/AbstractConstruct.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/tokens/Token.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/introspector/PropertyUtils.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/resolver/ResolverTuple.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/introspector/GenericProperty.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/tokens/FlowMappingEndToken.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/tokens/WhitespaceToken.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/events/AliasEvent.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/constructor/Constructor.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/DumperOptions.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/error/YAMLException.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/tokens/TagTuple.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/representer/Represent.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/events/ImplicitTuple.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/emitter/Emitter.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/events/SequenceStartEvent.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/events/DocumentStartEvent.java

\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/serializer/NumberAnchorGenerator.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/events/NodeEvent.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/parser/ParserImpl.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/util/UriEncoder.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/nodes/Node.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/nodes/Tag.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/introspector/MethodProperty.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/TypeDescription.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/nodes/MappingNode.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/tokens/AnchorToken.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/events/MappingEndEvent.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/representer/Representer.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/tokens/FlowSequenceStartToken.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/tokens/BlockEndToken.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/tokens/CommentToken.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/util/ArrayStack.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/scanner/ScannerException.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/events/CollectionEndEvent.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/constructor/BaseConstructor.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/util/PlatformFeatureDetector.java  
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\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/error/Mark.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/constructor/CustomClassLoaderConstructor.java

\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/serializer/SerializerException.java  
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\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/reader/ReaderException.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/tokens/DirectiveToken.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/representer/SafeRepresenter.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/events/StreamStartEvent.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/events/SequenceEndEvent.java  
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\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/extensions/compactnotation/CompactConstructor.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/constructor/DuplicateKeyException.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/nodes/ScalarNode.java  
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\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/tokens/StreamEndToken.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/nodes/NodeId.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/error/MarkedYAMLEException.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/emitter/ScalarAnalysis.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/LoaderOptions.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/nodes/SequenceNode.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/tokens/FlowEntryToken.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/composer/ComposerException.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/introspector/PropertySubstitute.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/scanner/ScannerImpl.java  
\* /opt/cola/permits/1150997427\_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/tokens/FlowSequenceEndToken.java

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jar/org/yaml/snakeyaml/tokens/AliasToken.java
* /opt/cola/permits/1150997427_1654022970.1301146/0/snakeyaml-1-24-sources-7-
jar/org/yaml/snakeyaml/representer/BaseRepresenter.java
* /opt/cola/permits/1150997427_1654022970.1301146/0/snakeyaml-1-24-sources-7-
jar/org/yaml/snakeyaml/introspector/Property.java
* /opt/cola/permits/1150997427_1654022970.1301146/0/snakeyaml-1-24-sources-7-
jar/org/yaml/snakeyaml/extensions/compactnotation/CompactData.java
* /opt/cola/permits/1150997427_1654022970.1301146/0/snakeyaml-1-24-sources-7-
jar/org/yaml/snakeyaml/extensions/compactnotation/PackageCompactConstructor.java
* /opt/cola/permits/1150997427_1654022970.1301146/0/snakeyaml-1-24-sources-7-
jar/org/yaml/snakeyaml/events/MappingStartEvent.java
* /opt/cola/permits/1150997427_1654022970.1301146/0/snakeyaml-1-24-sources-7-
jar/org/yaml/snakeyaml/tokens/BlockEntryToken.java
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```
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jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/UnicodeEscaper.java
* /opt/cola/permits/1150997427_1654022970.1301146/0/snakeyaml-1-24-sources-7-
jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/Escaper.java
* /opt/cola/permits/1150997427_1654022970.1301146/0/snakeyaml-1-24-sources-7-
jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/PercentEscaper.java
```

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jar/javax/validation/executable/ExecutableType.java
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\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/Past.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/bootstrap/GenericBootstrap.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/bootstrap/ProviderSpecificBootstrap.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/Payload.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/ConstraintValidator.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/metadata/ConstraintDescriptor.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/Null.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/Min.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/Pattern.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/spi/ValidationProvider.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/AssertFalse.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/metadata/ElementDescriptor.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/Constraint.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/ConstraintDefinitionException.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/Future.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/Digits.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/metadata/Scope.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/UnexpectedTypeException.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/NotNull.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/AssertTrue.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/ValidationProviderResolver.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/GroupDefinitionException.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/ConstraintDeclarationException.java

\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/Max.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/OverridesAttribute.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/ValidationException.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/groups/Default.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/spi/BootstrapState.java  
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\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/TraversableResolver.java  
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- \* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/DecimalMax.java
- \* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/groups/package-info.java
- \* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/ConstraintValidatorContext.java
- \* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/Path.java
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- \* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/metadata/BeanDescriptor.java
- \* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/DecimalMin.java

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\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/spi/ConfigurationState.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/ConstraintValidatorFactory.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/ValidatorContext.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/ValidatorFactory.java

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## 1.351 glib 2.56.1-8.el7

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## 1.356 jackson-mapper-asl 1.9.13

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*/
```

Found in path(s):

```
* /opt/cola/permits/1000738824_1646171490.29/0/jackson-mapper-asl-1-9-13-sources-  
jar/org/codehaus/jackson/map/MappingJsonFactory.java
```

## 1.357 swagger-parser 1.0.49

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```
public License license(ObjectNode node, String location, ParseResult result) {
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1048377572_1591391948.74/0/swagger-parser-1-0-49-sources-  
jar/io/swagger/parser/util/SwaggerDeserializer.java
```

# 1.358 activemq-broker 5.15.13

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## 1.359 javassist 3.19.0-GA

## 1.360 commons-discovery 0.2

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 *
 * =====
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```

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- \* /opt/cola/permits/1000765363\_1646171568.65/0/commons-discovery-0-2-sources-jar/org/apache/commons/discovery/tools/DefaultClassHolder.java
- \* /opt/cola/permits/1000765363\_1646171568.65/0/commons-discovery-0-2-sources-jar/org/apache/commons/discovery/jdk/JDK12Hooks.java
- \* /opt/cola/permits/1000765363\_1646171568.65/0/commons-discovery-0-2-sources-jar/org/apache/commons/discovery/tools/SPInterface.java
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- \* /opt/cola/permits/1000765363\_1646171568.65/0/commons-discovery-0-2-sources-jar/org/apache/commons/discovery/tools/EnvironmentCache.java
- \* /opt/cola/permits/1000765363\_1646171568.65/0/commons-discovery-0-2-sources-jar/org/apache/commons/discovery/tools/ResourceUtils.java
- \* /opt/cola/permits/1000765363\_1646171568.65/0/commons-discovery-0-2-sources-jar/org/apache/commons/discovery/tools/ClassUtils.java

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\* \$Header: /home/cvs/jakarta-commons/logging/src/java/org/apache/commons/logging/impl/SimpleLog.java,v 1.4  
2002/06/15 20:54:48 craigmcc Exp \$

\* \$Revision: 1.4 \$

\* \$Date: 2002/06/15 20:54:48 \$

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\* /opt/cola/permits/1000765363\_1646171568.65/0/commons-discovery-0-2-sources-jar/org/apache/commons/discovery/log/DiscoveryLogFactory.java

\* /opt/cola/permits/1000765363\_1646171568.65/0/commons-discovery-0-2-sources-jar/org/apache/commons/discovery/log/SimpleLog.java

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- \* /opt/cola/permits/1000765363\_1646171568.65/0/commons-discovery-0-2-sources-jar/org/apache/commons/discovery/resource/names/DiscoverNamesInSystemProperties.java
- \* /opt/cola/permits/1000765363\_1646171568.65/0/commons-discovery-0-2-sources-jar/org/apache/commons/discovery/ResourceClassIterator.java
- \* /opt/cola/permits/1000765363\_1646171568.65/0/commons-discovery-0-2-sources-jar/org/apache/commons/discovery/resource/names/DiscoverNamesInAlternateManagedProperties.java
- \* /opt/cola/permits/1000765363\_1646171568.65/0/commons-discovery-0-2-sources-jar/org/apache/commons/discovery/resource/names/ResourceNameDiscoverImpl.java
- \* /opt/cola/permits/1000765363\_1646171568.65/0/commons-discovery-0-2-sources-jar/org/apache/commons/discovery/tools/Service.java
- \* /opt/cola/permits/1000765363\_1646171568.65/0/commons-discovery-0-2-sources-jar/org/apache/commons/discovery/ResourceNameDiscover.java
- \* /opt/cola/permits/1000765363\_1646171568.65/0/commons-discovery-0-2-sources-jar/org/apache/commons/discovery/resource/names/DiscoverNamesInManagedProperties.java
- \* /opt/cola/permits/1000765363\_1646171568.65/0/commons-discovery-0-2-sources-jar/org/apache/commons/discovery/resource/names/DiscoverMappedNames.java
- \* /opt/cola/permits/1000765363\_1646171568.65/0/commons-discovery-0-2-sources-jar/org/apache/commons/discovery/ant/ServiceDiscoveryTask.java
- \* /opt/cola/permits/1000765363\_1646171568.65/0/commons-discovery-0-2-sources-jar/org/apache/commons/discovery/resource/ClassLoaders.java
- \* /opt/cola/permits/1000765363\_1646171568.65/0/commons-discovery-0-2-sources-jar/org/apache/commons/discovery/ResourceClassDiscover.java
- \* /opt/cola/permits/1000765363\_1646171568.65/0/commons-discovery-0-2-sources-jar/org/apache/commons/discovery/resource/classes/ResourceClassDiscoverImpl.java
- \* /opt/cola/permits/1000765363\_1646171568.65/0/commons-discovery-0-2-sources-jar/org/apache/commons/discovery/ResourceNameIterator.java
- \* /opt/cola/permits/1000765363\_1646171568.65/0/commons-discovery-0-2-sources-jar/org/apache/commons/discovery/resource/classes/DiscoverClasses.java
- \* /opt/cola/permits/1000765363\_1646171568.65/0/commons-discovery-0-2-sources-jar/org/apache/commons/discovery/resource/names/NameDiscoverers.java
- \* /opt/cola/permits/1000765363\_1646171568.65/0/commons-discovery-0-2-sources-

jar/org/apache/commons/discovery/resource/DiscoverResources.java  
\* /opt/cola/permits/1000765363\_1646171568.65/0/commons-discovery-0-2-sources-  
jar/org/apache/commons/discovery/ResourceClass.java  
\* /opt/cola/permits/1000765363\_1646171568.65/0/commons-discovery-0-2-sources-  
jar/org/apache/commons/discovery/resource/names/DiscoverNamesInFile.java  
\* /opt/cola/permits/1000765363\_1646171568.65/0/commons-discovery-0-2-sources-  
jar/org/apache/commons/discovery/resource/ResourceDiscoverImpl.java  
\* /opt/cola/permits/1000765363\_1646171568.65/0/commons-discovery-0-2-sources-  
jar/org/apache/commons/discovery/ResourceIterator.java  
\* /opt/cola/permits/1000765363\_1646171568.65/0/commons-discovery-0-2-sources-  
jar/org/apache/commons/discovery/resource/names/DiscoverServiceNames.java  
\* /opt/cola/permits/1000765363\_1646171568.65/0/commons-discovery-0-2-sources-  
jar/org/apache/commons/discovery/ResourceDiscover.java  
\* /opt/cola/permits/1000765363\_1646171568.65/0/commons-discovery-0-2-sources-  
jar/org/apache/commons/discovery/Resource.java  
\* /opt/cola/permits/1000765363\_1646171568.65/0/commons-discovery-0-2-sources-  
jar/org/apache/commons/discovery/resource/names/DiscoverNamesInDictionary.java  
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\* /opt/cola/permits/1000765363\_1646171568.65/0/commons-discovery-0-2-sources-  
jar/org/apache/commons/discovery/tools/ManagedProperties.java

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

## 1.363 diffutils 3.3 5.e17

### 1.363.1 Available under license :

```
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```

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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 <progrname.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[] =
"0123456789abBcC:dD:eEfF:hHiI:lL:nNpPqrsS:tTuU:vwW:x:X:yZ";

/* 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},
{"old-group-format", 1, 0, OLD_GROUP_FORMAT_OPTION},
{"old-line-format", 1, 0, OLD_LINE_FORMAT_OPTION},
{"paginate", 0, 0, 'I'},
{"rcs", 0, 0, 'n'},
{"recursive", 0, 0, 'r'},
{"report-identical-files", 0, 0, 's'},
{"sdiff-merge-assist", 0, 0, SDIFF_MERGE_ASSIST_OPTION},
{"show-c-function", 0, 0, 'p'},

```

```

{"show-function-line", 1, 0, 'F'},
{"side-by-side", 0, 0, 'y'},
{"speed-large-files", 0, 0, 'H'},
{"starting-file", 1, 0, 'S'},
{"strip-trailing-cr", 0, 0, STRIP_TRAILING_CR_OPTION},
{"suppress-blank-empty", 0, 0, SUPPRESS_BLANK_EMPTY_OPTION},
{"suppress-common-lines", 0, 0, SUPPRESS_COMMON_LINES_OPTION},
{"tabsize", 1, 0, TABSIZE_OPTION},
{"text", 0, 0, 'a'},
{"to-file", 1, 0, TO_FILE_OPTION},
{"unchanged-group-format", 1, 0, UNCHANGED_GROUP_FORMAT_OPTION},
{"unchanged-line-format", 1, 0, UNCHANGED_LINE_FORMAT_OPTION},
{"unidirectional-new-file", 0, 0, 'P'},
{"unified", 2, 0, 'U'},
{"version", 0, 0, 'v'},
{"width", 1, 0, 'W'},
{0, 0, 0, 0}
};

```

/\* 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. \*/

```

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);

    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;
    int 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\n%>#endif /* ! %s *\n%c#ifdef %s\n%>#endif /* %s *\n%c#ifndef %s\n%>#else
/* %s *\n%>#endif /* %s *\n";
        char *b = xmalloc (sizeof C_ifdef_group_formats
            + 7 * strlen (optarg) - 14 /* 7*"%" */
            - 8 /* 5*"%" + 3*"%" */);
        sprintf (b, C_ifdef_group_formats,
            0,
            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;
#ifdef 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 (), '\n'))
        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:
#ifdef 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 = strtoumax (optarg, &numend, 10);
    if (*numend)
        try_help ("invalid horizon length '%s'", 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 = strtoumax (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
}
else
{
    /* 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] = "%\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], "%=")
    && !*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.regexp || 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 '%s'", argv[argc - 1]);
        else
try_help ("extra operand '%s'", 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_(" --GTYPE-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."),
N_(" LTYPE is 'old', 'new', or 'unchanged'.  GTYPE is LTYPE or 'changed'."),
N_(" GFMT (only) may contain:\n\
%< lines from FILE1\n\
%> lines from FILE2\n\
%= lines common to FILE1 and FILE2\n\
%[-][WIDTH][.][PREC]{}LETTER printf-style spec for LETTER\n\
LETTERS are as follows for new group, lower case for old group:\n\
F first line number\n\

```

```

    L last line number\n\
    N number of lines = L-F+1\n\
    E F-1\n\
    M L+1\n\
    %(A=B?T:E) if A equals B then T else E"),
N_(" LFMT (only) may contain:\n\
    %L contents of line\n\
    %l contents of line, excluding any trailing newline\n\
    %[-][WIDTH][.PREC]]{doxX}n printf-style spec for input line number"),
N_(" Both GFMT and LFMT may contain:\n\
    %% %\n\
    %c'C' the single character C\n\
    %c'\OOO' the character with octal code OOO\n\
    C the character C (other characters represent themselves)",
""),
N_("-d, --minimal      try hard to find a smaller set of changes"),
N_("--horizon-lines=NUM keep NUM lines of the common prefix and suffix"),
N_("--speed-large-files assume large files and many scattered small changes"),
"",
N_("--help          display this help and exit"),
N_("-v, --version     output version information and exit"),
"",
N_("FILES are 'FILE1 FILE2' or 'DIR1 DIR2' or 'DIR FILE...' or 'FILE... DIR'."),
N_("If --from-file or --to-file is given, there are no restrictions on FILE(s)."),
N_("If a FILE is '-', read standard input."),
N_("Exit status is 0 if inputs are the same, 1 if different, 2 if trouble."),
0
};

```

```

static void
usage (void)

```

```

{
char const * const *p;

```

```

printf (_("Usage: %s [OPTION]... FILES\n"), program_name);
printf ("%s\n\n", _("Compare FILES line by line."));

```

```

fputs (_("\n
Mandatory arguments to long options are mandatory for short options too.\n
"), stdout);

```

```

for (p = option_help_msgid; *p; p++)
{
    if (!**p)
        putchar ('\n');
    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 '%s'"), 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
    gettimeofday (&STAT_TIMESPEC (st, st_mtim));
#else
    struct timespec t;

```

```

gettime (&t);
st->st_mtime = t.tv_sec;
# if defined STAT_TIMESPEC_NS
STAT_TIMESPEC_NS (st, st_mtim) = t.tv_nsec;
# elif defined HAVE_STRUCT_STAT_ST_SPARE1
st->st_spare1 = t.tv_nsec / 1000;
# 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)
                    || S_ISLNK (cmp.file[1].stat.st_mode))))))
{
    if (cmp.file[0].desc == NONEXISTENT || cmp.file[1].desc == NONEXISTENT)
{
    /* We have a subdirectory that exists only in one directory. */

    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. */
    message ("Only in %s: %s\n", dir, name0);

    status = EXIT_FAILURE;
}
}
else
{
    /* We have two files that are not to be compared. */

    /* 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_label[1] ? file_label[1] : cmp.file[1].name,
        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 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_label[1] ? file_label[1] : cmp.file[1].name,
        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,
        file_label[1] ? file_label[1] : cmp.file[1].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\n",
  file_label[0] ? file_label[0] : cmp.file[0].name,
  file_label[1] ? file_label[1] : cmp.file[1].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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## 1.367 gson 1.6

## 1.368 perl 5.16.3-297.el7

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# 1.369 shared-mime-info 1.8 5.el7

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Version 2, June 1991

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```
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```

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## 1.370 irqbalance 1.0.7 12.el7

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## 1.371 libndp 1.2 9.e17

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Version 2.1, February 1999

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lib/gssapi/mechglue/g\_canon\_name.c  
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lib/gssapi/mechglue/g\_dsp\_name.c  
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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  
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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/ipropr\_hdr.h  
kadmin/server/ipropr\_svc.c  
lib/kdb/ipropr.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
slave/kpropd\_rpc.c  
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```
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libssh v0.7.3

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libgcrypt v1.7.3

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libunwind

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wcwidth.cpp

Markus Kuhn -- 2007-05-26 (Unicode 5.0)

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The latest version can always be found at  
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```
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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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## 1.380 jclouds-scriptbuilder 1.0-SNAPSHOT

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```
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* /opt/cola/permits/1097707105_1605563533.8/0/jclouds-master-zip/jclouds-master/scriptbuilder/src/main/resources/functions/forget.sh
* /opt/cola/permits/1097707105_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/docker/src/test/resources/Dockerfile
* /opt/cola/permits/1097707105_1605563533.8/0/jclouds-master-zip/jclouds-master/scriptbuilder/src/main/resources/functions/installJDKFromURL.sh
* /opt/cola/permits/1097707105_1605563533.8/0/jclouds-master-zip/jclouds-master/scriptbuilder/src/main/resources/functions/setupPublicCurl.sh
* /opt/cola/permits/1097707105_1605563533.8/0/jclouds-master-zip/jclouds-master/scriptbuilder/src/main/resources/functions/installGit.sh
* /opt/cola/permits/1097707105_1605563533.8/0/jclouds-master-zip/jclouds-master/scriptbuilder/src/main/resources/functions/findPid.sh
* /opt/cola/permits/1097707105_1605563533.8/0/jclouds-master-zip/jclouds-master/scriptbuilder/src/test/resources/test_ebs.sh
```

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/scriptbuilder/src/main/resources/functions/sourceEnvFile.sh  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/scriptbuilder/src/main/resources/functions/abort.sh  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/scriptbuilder/src/main/resources/functions/installOpenJDK.sh  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/scriptbuilder/src/main/resources/functions/installRuby.sh  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/.travis.yml  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/rackspace-cloudservers-us/src/test/java/org/jclouds/rackspace/cloudservers/us/CloudServersUSProviderTest.java  
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jclouds

=====

Apache jclouds is an open source multi-cloud toolkit for the Java platform that gives you the freedom to create applications that are portable across clouds while giving you full control to use cloud-specific features.

This repository is archived. Please see [apache/jclouds](https://github.com/apache/jclouds).

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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-trove/src/test/resources/logback-test.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-neutron/pom.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/rackspace-cloudservers-uk/pom.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/pom.xml
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/elastichosts-lon-p/pom.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-trove/pom.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-trove/src/test/resources/logback.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/aws-sqs/pom.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/common/openstack/pom.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-cloud-storage/pom.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/rackspace-clouddatabases-us/pom.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/elasticstack/pom.xml
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/rackspace-cloudfiles-us/src/test/resources/logback.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/gson/gson-bundle/pom.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/common/pom.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/loadbalancer/pom.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/elastichosts-dal-a/pom.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/resources/checkstyle.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/drivers/log4j/pom.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/aws-ec2/pom.xml

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/elastichosts-sjc-c/pom.xml

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/allloadbalancer/pom.xml

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/rackspace-clouddatabases-us/src/test/resources/logback.xml

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/aws-s3/pom.xml

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/aws-cloudwatch/pom.xml

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/pom.xml

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/route53/pom.xml

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/rackspace-cloudfiles-uk/pom.xml

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/elastichosts-mmia/pom.xml

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/resources/checkstyle-suppressions.xml

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/rackspace-cloudnetworks-us/src/test/resources/logback.xml

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/rackspace-cloudblockstorage-us/pom.xml

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/rackspace-clouddns/pom.xml

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/gson/gson-shaded/pom.xml

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-keystone/pom.xml

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/chef/pom.xml

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/rackspace-cloudfiles/pom.xml

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/rackspace-clouddns-us/pom.xml

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/oauth/src/test/resources/logback.xml

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/pom.xml

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/go2cloud-jhb1/pom.xml

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/filesystem/pom.xml

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/rackspace-cloudnetworks-us/pom.xml

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/allblobstore/pom.xml

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/digitalocean2/pom.xml

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/rackspace-



clouddatabases-uk/src/test/resources/logback.xml

- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/elastichosts-lax-p/pom.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova-ec2/pom.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-cloud-storage/src/test/resources/logback.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/aws-route53/pom.xml
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/drivers/apachehc/pom.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/elastichosts-satp/pom.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azurecompute-arm/pom.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/elastichosts-sydv/pom.xml
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/drivers/joda/pom.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/drivers/okhttp/pom.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/rackspace-cloudloadbalancers-uk/pom.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/elastichosts-lon-b/pom.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudwatch/pom.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-cinder/pom.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/drivers/netty/pom.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/blobstore/pom.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/docker/pom.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/drivers/pom.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/drivers/gae/pom.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/drivers/bouncycastle/pom.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/skeletons/pom.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/skeletons/standalone-compute/pom.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/aws-sts/pom.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/rackspace-cloudservers-us/pom.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/elastichosts-ams-e/pom.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/rackspace-cloudblockstorage-uk/pom.xml
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/rackspace-cloudnetworks-uk/pom.xml
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/openhosting-east1/pom.xml
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/rackspace-cloudfiles/src/test/resources/logback.xml

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/date/internal/DateServiceDateCodecFactory.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova/src/test/java/org/jclouds/openstack/nova/v2\_0/extensions/AttachInterfaceApiExpectTest.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/test/java/org/jclouds/cloudstack/features/GlobalUsageApiTest.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/test/java/org/jclouds/cloudstack/compute/options/CloudStackTemplateOptionsTest.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/test/java/org/jclouds/providers/ProvidersTest.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/main/java/org/jclouds/cloudstack/options/ListSecurityGroupsOptions.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova/src/test/java/org/jclouds/openstack/nova/v2\_0/extensions/HypervisorApiMockTest.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azurecompute-arm/src/main/java/org/jclouds/azurecompute/arm/domain/DiskSku.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/test/java/org/jclouds/cloudstack/options/ListProjectsOptionsTest.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/main/java/org/jclouds/ec2/binders/BindSubnetIdsToIndexedFormParams.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/ultradns-ws/src/main/java/org/jclouds/ultradns/ws/xml/ResourceRecordDetailHandler.java

- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/aws-ec2/src/test/java/org/jclouds/aws/ec2/features/PlacementGroupApiMockTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azureblob/src/main/java/org/jclouds/azureblob/domain/internal/ListBlobBlocksResponseImpl.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/xml/internal/JAXBParser.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/profitbricks/src/test/java/org/jclouds/profitbricks/http/parser/snapshot/SnapshotResponseHandlerTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova/src/test/java/org/jclouds/openstack/nova/v2\_0/parse/ParseFlavorListTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-neutron/src/main/java/org/jclouds/openstack/neutron/v2/functions/lbaas/v1/ParseHealthMonitors.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/test/java/org/jclouds/ContextBuilderTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/test/java/org/jclouds/json/BaseParserTest.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/main/java/org/jclouds/ovf/xml/VirtualHardwareSectionHandler.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/s3/src/test/java/org/jclouds/s3/handlers/ParseS3ErrorFromXmlContentTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/elastichosts-ams-e/src/test/java/org/jclouds/elastichosts/ElasticHostsAmsterdamApiLiveTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/io/ByteSources.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/aws-ec2/src/main/java/org/jclouds/aws/ec2/features/SpotInstanceApi.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-neutron/src/main/java/org/jclouds/openstack/neutron/v2/functions/FirewallRuleToPagedIterable.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/atmos/src/test/java/org/jclouds/atmos/blobstore/functions/ListOptionsToBlobStoreListOptions.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-cinder/src/test/java/org/jclouds/openstack/cinder/v1/features/AvailabilityZoneApiLiveTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova/src/main/java/org/jclouds/openstack/nova/v2\_0/domain/ServerExtendedStatus.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-

master/apis/ec2/src/main/java/org/jclouds/ec2/xml/DescribeBundleTasksResponseHandler.java  
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 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-  
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 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-  
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 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-  
 trove/src/main/java/org/jclouds/openstack/trove/v1/binders/BindGrantUserToJson.java  
 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azurecompute-  
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 arm/src/main/java/org/jclouds/azurecompute/arm/compute/options/IpOptions.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/test/java/org/jclouds/cloudstack/features/EventApiTest.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/rest/internal/GetAcceptHeaders.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/route53/src/main/java/org/jclouds/route53/xml/GetHostedZoneResponseHandler.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/oauth/src/main/java/org/jclouds/oauth/v2/domain/CertificateFingerprint.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/digitalocean2/src/main/java/org/jclouds/digitalocean2/compute/functions/DropletToNodeMetadata.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/main/java/org/jclouds/cloudstack/features/VMGroupApi.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova/src/main/java/org/jclouds/openstack/nova/v2\_0/compute/functions/RemoveFloatingIpFromNodeAndDeallocate.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/test/java/org/jclouds/cloudstack/options/ListLoadBalancerRulesOptionsTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/digitalocean2/src/main/java/org/jclouds/digitalocean2/domain/Distribution.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/atmos/src/main/java/org/jclouds/atmos/handlers/AtmosClientErrorRetryHandler.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova/src/main/java/org/jclouds/openstack/nova/v2\_0/domain/regionscoped/AvailabilityZoneDetails.java  
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master/providers/dynect/src/test/java/org/jclouds/dynect/v3/internal/BaseDynECTExpectTest.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/test/java/org/jclouds/compute/domain/VolumeBuilderTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/main/java/org/jclouds/cloudstack/options/UpdateAccountOptions.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/rackspace-cloudloadbalancers-us/src/main/java/org/jclouds/rackspace/cloudloadbalancers/us/CloudLoadBalancersUSProviderMetadata.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/test/java/org/jclouds/location/functions/RegionToEndpointTest.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/aws-ec2/src/main/java/org/jclouds/aws/ec2/compute/suppliers/AWSEC2ImageSupplier.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova/src/test/java/org/jclouds/openstack/nova/v2\_0/extensions/FloatingIPApiExpectTest.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/softlayer/src/test/java/org/jclouds/softlayer/compute/functions/DatacenterToLocationTest.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azurecompute-arm/src/test/java/org/jclouds/azurecompute/arm/features/MetricsApiLiveTest.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/rackspace-cloudloadbalancers-us/src/test/java/org/jclouds/rackspace/cloudloadbalancers/us/CloudLoadBalancersUSNodeClientLiveTest.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-compute-engine/src/main/java/org/jclouds/googlecomputeengine/domain/NewTargetInstance.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/packet/src/main/java/org/jclouds/packet/domain/Plan.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/blobstore/src/main/java/org/jclouds/blobstore/BlobStore.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/http/options/HttpRequestOptions.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-swift/src/main/java/org/jclouds/openstack/swift/v1/options/PutOptions.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/io/payloads/RSADecryptingPayload.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-compute-engine/src/main/java/org/jclouds/googlecomputeengine/features/AddressApi.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/elastichosts-satp/src/test/java/org/jclouds/elastichosts/compute/ElasticHostsPeer1SanAntonioTemplateBuilderLiveTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/serverlove-z1-

man/src/main/java/org/jclouds/serverlove/ServerloveManchesterProviderMetadata.java  
 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-trove/src/main/java/org/jclouds/openstack/trouve/v1/handlers/TroveErrorHandler.java  
 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/test/java/org/jclouds/events/config/EventBusModuleTest.java  
 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/test/java/org/jclouds/ec2/xml/BaseEC2HandlerTest.java  
 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-cloud-storage/src/main/java/org/jclouds/googlecloudstorage/options/DeleteObjectOptions.java  
 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/test/java/org/jclouds/compute/config/ComputeServicePropertiesTest.java  
 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudwatch/src/main/java/org/jclouds/cloudwatch/binders/MetricDataBinder.java  
 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/main/java/org/jclouds/compute/domain/internal/ImageTemplateImpl.java  
 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-neutron/src/main/java/org/jclouds/openstack/neutron/v2/domain/RuleEthertype.java  
 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/main/java/org/jclouds/ec2/suppliers/DescribeRegionsForRegionURIs.java  
 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/aws-ec2/src/main/java/org/jclouds/aws/ec2/xml/InternetGatewayAttachmentSetHandler.java  
 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/concurrent/DynamicExecutors.java  
 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-keystone/src/main/java/org/jclouds/openstack/keystone/v3/domain/User.java  
 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/digitalocean2/src/main/java/org/jclouds/digitalocean2/DigitalOcean2ProviderMetadata.java  
 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/chef/src/test/java/org/jclouds/chef/strategy/internal/UpdateAutomaticAttributesOnNodeImplLiveTest.java  
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 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/rackspace-clouddns/src/main/java/org/jclouds/rackspace/clouddns/v1/predicates/JobPredicates.java  
 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azurecompute-arm/src/main/java/org/jclouds/azurecompute/arm/domain/ExtensionProperties.java  
 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/sqs/src/test/java/org/jclouds/sqs/parse/SendMessageBatchResponseTest.java  
 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/rackspace-cloudfiles/src/test/java/org/jclouds/rackspace/cloudfiles/v1/internal/BaseCloudFilesApiLiveTest.java  
 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-keystone/src/test/java/org/jclouds/openstack/v2\_0/internal/BaseOpenStackMockTest.java  
 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/elasticstack/src/test/java/org/jclouds/elasticstack/functions/DriveDataToMapTest.java  
 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/blobstore/src/main/java/org/jclouds/blobstore/KeyAlreadyExistsException.java  
 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/main/java/org/jclouds/cloudstack/options/ListFirewallRulesOptions.java  
 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-neutron/src/main/java/org/jclouds/openstack/neutron/v2/domain/lbaas/v1/Member.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/packet/src/test/java/org/jclouds/packet/compute/internal/BasePacketApiMockTest.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova-ec2/src/test/java/org/jclouds/openstack/nova/ec2/features/NovaEC2AMIApiExpectTest.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/logging/LoggingModules.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/gogrid/src/main/java/org/jclouds/gogrid/compute/suppliers/GoGridHardwareSupplier.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/rackspace-cloudfiles/src/test/java/org/jclouds/rackspace/cloudfiles/v1/blobstore/integration/CloudFilesBlobSignerLiveTest.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-compute-engine/src/test/java/org/jclouds/googlecomputeengine/features/UrlMapApiMockTest.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/blobstore/src/main/java/org/jclouds/blobstore/domain/MultipartPart.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-cinder/src/main/java/org/jclouds/openstack/cinder/v1/extensions/ExtensionNamespaces.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudwatch/src/test/java/org/jclouds/cloudwatch/xml/GetMetricStatisticsResponseHandlerTest.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/main/java/org/jclouds/cim/VirtualSystemSettingData.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/scriptbuilder/src/main/java/org/jclouds/scriptbuilder/statements/login/Sudoers.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/profitbricks/src/main/java/org/jclouds/profitbricks/http/parser/storage/BaseStorageResponseHandler.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/chef/src/main/java/org/jclouds/chef/domain/DatabagItem.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-compute-engine/src/main/java/org/jclouds/googlecomputeengine/compute/loaders/SubnetworkLoader.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/location/suppliers/LocationsSupplier.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/main/java/org/jclouds/cloudstack/options/ListResourceLimitsOptions.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/chef/src/main/java/org/jclouds/ohai/config/OhaiModule.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/providers/AnonymousProviderMetadata.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/scriptbuilder/src/test/java/org/jclouds/scriptbuilder/statements/ssh/AuthorizeRSAPublicKeyTest.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/test/java/org/jclouds/cloudstack/features/VolumeApiTest.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azurecompute-arm/src/main/java/org/jclouds/azurecompute/arm/domain/VirtualMachineScaleSetPublicIPAddressConfiguration.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/test/java/org/jclouds/ssh/SshKeysTest.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/main/java/org/jclouds/compute/config/PersistNodeCredentialsModule.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/location/suppliers/ProviderURISupplier.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/dynect/src/test/java/org/jclouds/dynect/v3/DynectApiMockTest.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-swift/src/main/java/org/jclouds/openstack/swift/v1/config/SwiftAuthenticationModule.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/blobstore/src/main/java/org/jclouds/blobstore/domain/StorageType.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/profitbricks/src/test/java/org/jclouds/profitbricks/binder/loadbalancer/CreateLoadBalancerRequestBinderTest.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova/src/test/java/org/jclouds/openstack/nova/v2\_0/parse/ParseServerWithAllExtensionsTest.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/profitbricks/src/test/java/org/jclouds/profitbricks/ProfitBricksProviderMetadataTest.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-compute-engine/src/main/java/org/jclouds/googlecomputeengine/compute/predicates/AtomicInstanceVisible.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/test/java/org/jclouds/cloudstack/features/LoadBalancerApiLiveTest.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/apis/Apis.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-compute-engine/src/main/java/org/jclouds/googlecomputeengine/compute/config/GoogleComputeEngineServiceContextModule.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/main/java/org/jclouds/ec2/compute/strategy/EC2SuspendNodeStrategy.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/digitalocean2/src/test/java/org/jclouds/digitalocean2/features/SizeApiLiveTest.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-swift/src/main/java/org/jclouds/openstack/swift/v1/binders/BindMetadataToHeaders.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/test/java/org/jclouds/rest/annotationparsing/PATCHAnnotationExpectTest.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/http/functions/ReturnTrueIf201.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/test/java/org/jclouds/ec2/compute/EC2TemplateBuilderTest.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/docker/src/test/java/org/jclouds/docker/parse/InfoParseTest.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/test/java/org/jclouds/http/options/GetOptionsTest.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-

neutron/src/main/java/org/jclouds/openstack/neutron/v2/domain/ExternalGatewayInfo.java

- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azurecompute-arm/src/main/java/org/jclouds/azurecompute/arm/domain/vpn/BGPSettings.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/test/java/org/jclouds/cloudstack/predicates/NetworkPredicatesTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/skeletons/standalone-compute/src/test/java/org/jclouds/servermanager/compute/ServerManagerComputeServiceLiveTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/rackspace-cloudidentity/src/test/java/org/jclouds/rackspace/cloudidentity/v2\_0/features/CloudIdentityServiceApiLiveTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/sts/src/main/java/org/jclouds/aws/config/AWSHttpApiModule.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/test/java/org/jclouds/cloudstack/parsers/ListTemplatesResponseTest.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/rackspace-cloudfiles/src/main/java/org/jclouds/rackspace/cloudfiles/v1/handlers/CloudFilesErrorHandler.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/location/suppliers/all/RegionToProvider.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azurecompute-arm/src/main/java/org/jclouds/azurecompute/arm/domain/VirtualMachineScaleSetPublicIPAddressProperties.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova/src/test/java/org/jclouds/openstack/nova/v2\_0/extensions/SecurityGroupApiExpectTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/elasticstack/src/test/java/org/jclouds/elasticstack/functions/ListOfMapsToListOfKeyValuesDelimitedByBlankLinesTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/dynect/src/main/java/org/jclouds/dynect/v3/DynECTApiMetadata.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/test/java/org/jclouds/rest/internal/BaseRestAnnotationProcessingTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/glesys/src/main/java/org/jclouds/glesys/options/DestroyServerOptions.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-compute-engine/src/test/java/org/jclouds/googlecomputeengine/parsers/ParseTargetPoolListTest.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/aws-s3/src/test/java/org/jclouds/aws/s3/blobstore/AWSS3BlobSignerV4ExpectTest.java

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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/sqs/src/main/java/org/jclouds/sqs/domain/Attribute.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/main/java/org/jclouds/cloudstack/options/AddClusterOptions.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azurecompute-arm/src/main/java/org/jclouds/azurecompute/arm/domain/vpn/VPNClientRevokedCertificate.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/s3/src/main/java/org/jclouds/s3/config/S3ParserModule.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/test/java/org/jclouds/cloudstack/features/TemplateApiLiveTest.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-cloud-storage/src/test/java/org/jclouds/googlecloudstorage/features/ResumableUploadApiLiveTest.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-cloud-storage/src/main/java/org/jclouds/googlecloudstorage/handlers/GoogleCloudStorageClientErrorRetryHandler.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/aws-sqs/src/test/java/org/jclouds/aws/sqs/features/AWSPermissionApiLiveTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/b2/src/main/java/org/jclouds/b2/domain/BucketType.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/ultradns/ws/src/main/java/org/jclouds/ultradns/ws/xml/PoolRecordSpecHandler.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova/src/main/java/org/jclouds/openstack/nova/v2\_0/domain/PortInterface.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/rackspace-cloudfiles/src/main/java/org/jclouds/rackspace/cloudfiles/v1/CloudFilesApiMetadata.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/common/openstack/src/main/java/org/jclouds/openstack/keystone/v1\_1/suppliers/V1DefaultRegionIdSupplier.java
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/test/java/org/jclouds/cloudstack/options/CreateDiskOfferingOptionsTest.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azurecompute-arm/src/test/java/org/jclouds/azurecompute/arm/features/NetworkSecurityRuleApiLiveTest.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/sts/src/test/java/org/jclouds/sts/parse/GetSessionTokenResponseTest.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/providers/internal/BaseProviderMetadata.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/packet/src/main/java/org/jclouds/packet/domain/Pricing.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/profitbricks/src/test/java/org/jclouds/profitbricks/http/parser/storage/StorageListResponseHandlerTest.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/main/java/org/jclouds/cloudstack/options/UpdateZoneOptions.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/test/java/org/jclouds/apis/JcloudsTestYetAnotherComputeApiMetadata.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/blobstore/src/main/java/org/jclouds/blobstore/strategy/internal/FetchBlobMetadata.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/b2/src/main/java/org/jclouds/b2/B2Api.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/s3/src/main/java/org/jclouds/s3/binders/BindS3ObjectMetadataToRequest.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-keystone/src/test/java/org/jclouds/openstack/keystone/v2\_0/features/UserApiExpectTest.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova/src/test/java/org/jclouds/openstack/nova/v2\_0/parse/ParseServerTest.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/dynect/src/test/java/org/jclouds/dynect/v3/parse/GetSPFRecordResponseTest.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/drivers/bouncycastle/src/main/java/org/jclouds/encryption/bouncycastle/config/BouncyCastleCryptoModule.java

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ec2/src/main/java/org/jclouds/aws/ec2/xml/AWSEC2SecurityGroupHandler.java

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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/main/java/org/jclouds/compute/predicates/NodePredicates.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/rackspace-clouddns-uk/src/test/java/org/jclouds/rackspace/clouddns/uk/features/CloudDNSUKDomainApiLiveTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/docker/src/test/java/org/jclouds/docker/parse/ImagesParseTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/test/java/org/jclouds/json/BaseSetParserTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/io/payloads/BaseMutableContentMetadata.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/sqs/src/main/java/org/jclouds/sqs/options/ReceiveMessageOptions.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/aws-ec2/src/main/java/org/jclouds/aws/ec2/xml/LaunchSpecificationHandler.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/b2/src/main/java/org/jclouds/b2/domain/DeleteFileResponse.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/s3/src/main/java/org/jclouds/s3/binders/BindPartIdsAndETagsToRequest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/common/openstack/src/test/java/org/jclouds/openstack/options/BaseListOptionsTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-keystone/src/test/java/org/jclouds/openstack/keystone/v2\_0/parse/ParseRackspaceCryptoTokenAccessTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/elasticstack/src/main/java/org/jclouds/elasticstack/domain/BlockDevice.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/gogrid/src/main/java/org/jclouds/gogrid/functions/ParseIpListFromJsonResponse.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/chef/src/main/java/org/jclouds/chef/strategy/ListEnvironments.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova/src/main/java/org/jclouds/openstack/nova/v2\_0/domain/regionscoped/RegionAndId.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/main/java/org/jclouds/cloudstack/options/CreatePodOptions.java

- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-  
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-  
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-  
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-  
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-  
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-  
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-  
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/main/java/org/jclouds/ec2/xml/RunInstancesResponseHandler.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/scriptbuilder/src/main/java/org/jclouds/scriptbuilder/domain/chef/DataBag.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azureblob/src/main/java/org/jclouds/azureblob/domain/internal/BlobBlockPropertiesImpl.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/main/java/org/jclouds/ec2/binders/BindBlockDeviceMappingToIndexedFormParams.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/loadbalancer/src/main/java/org/jclouds/loadbalancer/LoadBalancerServiceContext.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova-ec2/src/main/java/org/jclouds/openstack/nova/ec2/internal/HyphenToNullIso8601Codec.java

- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azurecompute-arm/src/main/java/org/jclouds/azurecompute/arm/compute/functions/LocationToLocation.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/http/HttpMessage.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azurecompute-arm/src/main/java/org/jclouds/azurecompute/arm/AzureManagementApiMetadata.java
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uk/src/test/java/org/jclouds/rackspace/cloudservers/uk/features/CloudServersUKImageApiLiveTest.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-keystone/src/test/java/org/jclouds/openstack/keystone/v2\_0/extensions/ServiceAdminApiMockTest.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azurecompute-arm/src/main/java/org/jclouds/azurecompute/arm/domain/vpn/VirtualNetworkGateway.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/main/java/org/jclouds/cloudstack/options/ListLoadBalancerRulesOptions.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/rackspace-cloudloadbalancers/src/main/java/org/jclouds/rackspace/cloudloadbalancers/v1/domain/AccountUsage.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/profitbricks/src/test/java/org/jclouds/profitbricks/domain/ServerBuilderTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/test/java/org/jclouds/cloudstack/features/GlobalZoneApiExpectTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/aws-ec2/src/main/java/org/jclouds/aws/ec2/domain/SpotInstanceRequest.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/main/java/org/jclouds/ec2/domain/Hypervisor.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/main/java/org/jclouds/compute/domain/Hardware.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/s3/src/test/java/org/jclouds/s3/internal/BaseS3ClientTest.java  
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master/scriptbuilder/src/test/java/org/jclouds/scriptbuilder/statements/login/UserAddTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/main/java/org/jclouds/ec2/xml/AllocateAddressResponseHandler.java  
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storage/src/main/java/org/jclouds/googlecloudstorage/domain/RewriteResponse.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/rackspace-cloudservers-uk/src/test/java/org/jclouds/rackspace/cloudservers/uk/features/CloudServersUKFlavorApiLiveTest.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/osgi/ProviderRegistry.java  
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/atmos/src/test/java/org/jclouds/atmos/binders/BindUserMetadataToHeadersTest.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/common/openstack/src/main/java/org/jclouds/openstack/services/Image.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/dynect/src/test/java/org/jclouds/dynect/v3/features/RecordApiLiveTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/blobstore/src/main/java/org/jclouds/blobstore/util/BlobUtils.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/main/java/org/jclouds/compute/domain/CIMOperatingSystem.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-compute-engine/src/main/java/org/jclouds/googlecomputeengine/binders/DiskCreationBinder.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-neutron/src/main/java/org/jclouds/openstack/neutron/v2/domain/FirewallRule.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/chef/src/main/java/org/jclouds/chef/config/Validator.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/glesys/src/test/java/org/jclouds/glesys/features/IpApiLiveTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/blobstore/src/main/java/org/jclouds/blobstore/internal/RequestSigningUnsupported.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/test/java/org/jclouds/cloudstack/features/FirewallApiTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/test/java/org/jclouds/ec2/xml/DescribeBundleTasksResponseHandlerTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/main/java/org/jclouds/cloudstack/domain/TrafficType.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/rackspace-cloudnetworks-uk/src/test/java/org/jclouds/rackspace/cloudnetworks/uk/CloudNetworksUKSubnetApiLiveTest.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-

master/apis/chef/src/main/java/org/jclouds/ohai/AutomaticSupplier.java  
 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azurecompute-arm/src/test/java/org/jclouds/azurecompute/arm/features/ResourceGroupApiMockTest.java  
 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/rackspace-cloudloadbalancers/src/test/java/org/jclouds/rackspace/cloudloadbalancers/v1/features/VirtualIPApiExpectTest.java  
 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/ultradns-ws/src/main/java/org/jclouds/ultradns/ws/internal/DirectionalPoolRecordTypeToString.java  
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 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/test/java/org/jclouds/compute/predicates/SocketOpenPredicates.java  
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 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova/src/test/java/org/jclouds/openstack/nova/v2\_0/compute/functions/ServerInRegionToNodeMetadataTest.java  
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 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/rackspace-clouddns-us/src/test/java/org/jclouds/rackspace/clouddns/us/features/CloudDNSUSDomainApiLiveTest.java  
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/profitbricks/src/test/java/org/jclouds/profitbricks/http/parser/nic/NicListResponseHandlerTest.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/s3/src/main/java/org/jclouds/s3/xml/CopyObjectHandler.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudwatch/src/main/java/org/jclouds/cloudwatch/domain/Alarm.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/profitbricks/src/main/java/org/jclouds/profitbricks/features/ImageApi.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/test/java/org/jclouds/config/ContextLinkingTest.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-neutron/src/main/java/org/jclouds/openstack/neutron/v2/domain/Rules.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/main/java/org/jclouds/ec2/domain/Subnet.java
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/main/java/org/jclouds/cloudstack/domain/VlanIPRange.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-neutron/src/test/java/org/jclouds/openstack/neutron/v2/extensions/RouterApiMockTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/rackspace-clouddns/src/main/java/org/jclouds/rackspace/clouddns/v1/functions/SubdomainsToPagedIterable.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/test/java/org/jclouds/compute/strategy/impl/ReturnCredentialsBoundToImageTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/aws-ec2/src/main/java/org/jclouds/aws/ec2/xml/DescribeSpotPriceHistoryResponseHandler.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/test/java/org/jclouds/cloudstack/options/UpdatePodOptionsTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/drivers/log4j/src/main/java/org/jclouds/logging/log4j/config/Log4JLoggingModule.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/chef/src/main/java/org/jclouds/chef/domain/Client.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/route53/src/main/java/org/jclouds/route53/domain/HostedZoneAndNameServers.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-compute-engine/src/main/java/org/jclouds/googlecomputeengine/compute/predicates/AtomicOperationDone.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/main/java/org/jclouds/cloudstack/options/ListNetworkOptions.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-compute-engine/src/main/java/org/jclouds/googlecomputeengine/domain/Zone.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/s3/src/main/java/org/jclouds/s3/binders/BindIterableAsPayloadToDeleteRequest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/test/java/org/jclouds/location/functions/RegionToEndpointOrProviderIfNullTest.java  
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/blobstore/src/main/java/org/jclouds/blobstore/options/CreateContainerOptions.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova/src/main/java/org/jclouds/openstack/nova/v2\_0/predicates/ImagePredicates.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/main/java/org/jclouds/ec2/xml/DescribeVolumesResponseHandler.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/sqs/src/main/java/org/jclouds/sqs/config/SQSProperties.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-compute-engine/src/main/java/org/jclouds/googlecomputeengine/binders/FirewallBinder.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/s3/src/test/java/org/jclouds/s3/options/PutBucketOptionsTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/s3/src/test/java/org/jclouds/s3/functions/ParseObjectMetadataFromHeadersTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/byon/src/main/java/org/jclouds/byon/domain/YamlNode.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/aws-ec2/src/main/java/org/jclouds/aws/ec2/compute/strategy/AWSEC2IOExceptionRetryHandler.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/s3/src/main/java/org/jclouds/s3/filters/RequestAuthorizeSignatureV4.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/docker/src/test/java/org/jclouds/docker/features/ContainerApiLiveTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/softlayer/src/main/java/org/jclouds/softlayer/config/SoftLayerParserModule.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/profitbricks/src/test/java/org/jclouds/profitbricks/binder/loadbalancer/UpdateLoadBalancerRequestBinderTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-compute-engine/src/main/java/org/jclouds/googlecomputeengine/compute/functions/FirewallTagNamingConvention.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/test/java/org/jclouds/cloudstack/features/ProjectApiTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/test/java/org/jclouds/reflect/Reflection2CoreJavaClassesTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova/src/test/java/org/jclouds/openstack/nova/v2\_0/extensions/ServerWithSecurityGroupsApiExpectTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/scriptbuilder/src/main/java/org/jclouds/scriptbuilder/statements/ssh/SshdConfig.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/sqs/src/test/java/org/jclouds/sqs/handlers/SQSErrorRetryHandlerTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-cloud-storage/src/test/java/org/jclouds/googlecloudstorage/features/DefaultObjectAccessControlsApiExpectTest.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/rackspace-cloudidentity/src/main/java/org/jclouds/rackspace/cloudidentity/v2\_0/CloudIdentityAuthenticationApi.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/atmos/src/test/java/org/jclouds/atmos/functions/ParseObjectFromHeadersAndHttpContentTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/drivers/enterprise/src/main/java/org/jclouds/enterprise/config/EnterpriseConfigurationModule.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova/src/main/java/org/jclouds/openstack/nova/v2\_0/binders/BindConsoleToJsonPayload.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/docker/src/main/java/org/jclouds/docker/domain/ImageSummary.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/test/java/org/jclouds/cloudstack/predicates/SecurityGroupPredicatesTest.java

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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/chef/src/test/java/org/jclouds/chef/functions/ParseSearchDataBagItemFromJsonTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova-ec2/src/test/java/org/jclouds/openstack/nova/ec2/features/NovaEC2KeyPairApiLiveTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/aws-ec2/src/test/java/org/jclouds/aws/ec2/compute/AWSEC2ComputeServiceApiMockTest.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-keystone/src/main/java/org/jclouds/openstack/keystone/v2\_0/options/CreateTenantOptions.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/main/java/org/jclouds/compute/internal/ComputeServiceContextImpl.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/scriptbuilder/src/test/java/org/jclouds/scriptbuilder/domain/ShellTokenTest.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/rackspace-cloudfiles-uk/src/test/java/org/jclouds/rackspace/cloudfiles/uk/CloudFilesUKProviderTest.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/test/java/org/jclouds/cloudstack/compute/loaders/CreateUniqueKeyPairTest.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/main/java/org/jclouds/ec2/predicates/InstanceStateRunning.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/packet/src/test/java/org/jclouds/packet/features/OperatingSystemApiLiveTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/profitbricks/src/main/java/org/jclouds/profitbricks/binder/snapshot/CreateSnapshotRequestBinder.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/test/java/org/jclouds/rest/suppliers/MemoizedRetryOnTimeOutButNotOnAuthorizationExceptionSupplierTest.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/ultradns-ws/src/test/java/org/jclouds/ultradns/ws/parse/GetPoolRecordSpecResponseTest.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/aws-ec2/src/main/java/org/jclouds/aws/ec2/options/RouteOptions.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-cloud-storage/src/main/java/org/jclouds/googlecloudstorage/domain/templates/BucketTemplate.java
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/elastichosts-lon-b/src/test/java/org/jclouds/elastichosts/ElasticHostsBlueSquareLondonApiLiveTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/main/java/org/jclouds/cloudstack/options/ListUsageRecordsOptions.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/main/java/org/jclouds/ssh/SshException.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/aws-ec2/src/test/java/org/jclouds/aws/ec2/features/SpotInstanceApiLiveTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/s3/src/main/java/org/jclouds/s3/domain/internal/S3ObjectImpl.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/blobstore/src/main/java/org/jclouds/blobstore/util/internal/BlobUtilsImpl.java



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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-keystone/src/main/java/org/jclouds/openstack/keystone/catalog/functions/ServiceEndpointToRegion.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/softlayer/src/test/java/org/jclouds/softlayer/parse/VirtualGuestParseTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/profitbricks/src/main/java/org/jclouds/profitbricks/binder/snapshot/UpdateSnapshotRequestBinder.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/aws-ec2/src/main/java/org/jclouds/aws/ec2/compute/AWSEC2ComputeService.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/softlayer/src/main/java/org/jclouds/softlayer/binders/TagToJson.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/b2/src/main/java/org/jclouds/b2/domain/UploadFileResponse.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/main/java/org/jclouds/compute/predicates/AtomicNodeSuspended.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/test/java/org/jclouds/cloudstack/features/NetworkApiTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azurecompute-arm/src/test/java/org/jclouds/azurecompute/arm/features/VirtualNetworkGatewayApiMockTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/chef/src/main/java/org/jclouds/ohai/config/ConfiguresOhai.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/main/java/org/jclouds/compute/stub/extensions/StubSecurityGroupExtension.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/main/java/org/jclouds/cim/xml/ResourceAllocationSettingDataHandler.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/rest/Utils.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/digitalocean2/src/test/java/org/jclouds/digitalocean2/compute/functions/SizeToHardwareTest.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/main/java/org/jclouds/ec2/util/TagFilterBuilder.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/test/java/org/jclouds/ec2/features/WindowsApiExpectTest.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-cinder/src/main/java/org/jclouds/openstack/cinder/v1/config/CinderHttpApiModule.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/docker/src/test/java/org/jclouds/docker/parse/HistoryParseTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/main/java/org/jclouds/ec2/options/DescribeRegionsOptions.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/s3/src/main/java/org/jclouds/s3/blobstore/functions/BucketsToStorageMetadata.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/aws-ec2/src/test/java/org/jclouds/aws/ec2/compute/functions/AWSRunningInstanceToNodeMetadataTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/location/suppliers/derived/RegionIdsFromRegionIdToURIKeySet.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/scriptbuilder/src/main/java/org/jclouds/scriptbuilder/statements/chef/ChefSolo.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/main/java/org/jclouds/cloudstack/domain/User.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azurecompute-arm/src/main/java/org/jclouds/azurecompute/arm/compute/functions/VMImageToImage.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-trove/src/main/java/org/jclouds/openstack/trouve/v1/domain/Flavor.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/filesystem/src/main/java/org/jclouds/filesystem/predicates/validators/internal/FilesystemBlobKeyValidatorImpl.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-compute-engine/src/test/java/org/jclouds/googlecomputeengine/parse/SimpleParsingTests.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azurecompute-arm/src/main/java/org/jclouds/azurecompute/arm/domain/vpn/VirtualNetworkGatewayConnectionProperties.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-

master/apis/cloudstack/src/main/java/org/jclouds/cloudstack/domain/TemplateMetadata.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-keystone/src/test/java/org/jclouds/openstack/keystone/v3/features/AuthApiLiveTest.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-swift/src/test/java/org/jclouds/openstack/swift/v1/features/StaticLargeObjectApiMockTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/route53/src/test/java/org/jclouds/route53/parse/ListHostedZonesResponseTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/functions/JoinOnComma.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azurecompute-arm/src/main/java/org/jclouds/azurecompute/arm/domain/loadbalancer/LoadBalancer.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-neutron/src/main/java/org/jclouds/openstack/neutron/v2/domain/NetworkSegment.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/test/java/org/jclouds/cloudstack/features/GlobalStoragePoolApiTest.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/byon/src/test/java/org/jclouds/byon/suppliers/NodesParsedFromSupplierTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/main/java/org/jclouds/compute/domain/ComputeMetadata.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/test/java/org/jclouds/ec2/features/InstanceApiLiveTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-cloud-storage/src/test/java/org/jclouds/googlecloudstorage/blobstore/integration/GoogleCloudStorageBlobSignerLiveTest.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/test/java/org/jclouds/util/HttpUtilsTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/main/java/org/jclouds/cloudstack/options/ListVlanIPRangesOptions.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-compute-engine/src/test/java/org/jclouds/googlecomputeengine/compute/functions/InstanceToNodeMetadataTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/main/java/org/jclouds/cloudstack/domain/Account.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/common/openstack/src/main/java/org/jclouds/openstack/filters/AddTimestampQuery.java  
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engine/src/test/java/org/jclouds/googlecomputeengine/parse/ParseBackendServiceTest.java

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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/elasticstack/src/main/java/org/jclouds/elasticstack/functions/MapToDriveMetrics.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/aws-ec2/src/test/java/org/jclouds/aws/ec2/features/AWSAMIAPILiveTest.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/gogrid/src/main/java/org/jclouds/gogrid/features/GridImageApi.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/rackspace-cloudservers-us/src/test/java/org/jclouds/rackspace/cloudservers/us/compute/CloudServersUSComputeServiceLiveTest.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/blobstore/src/main/java/org/jclouds/blobstore/config/LocalBlobStore.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azureblob/src/test/java/org/jclouds/azureblob/AzureBlobClientTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/test/java/org/jclouds/ec2/compute/functions/CreateUniqueKeyPairTest.java
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-cloud-storage/src/main/java/org/jclouds/googlecloudstorage/features/BucketApi.java

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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-keystone/src/test/java/org/jclouds/openstack/keystone/v2\_0/parse/ParseAdminAccessTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/profitbricks/src/test/java/org/jclouds/profitbricks/binder/datacenter/CreateDataCenterRequestBinderTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/test/java/org/jclouds/cloudstack/parse/ListVlanIPRangesResponseTest.java

- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/aws-ec2/src/main/java/org/jclouds/aws/ec2/options/CreateSubnetOptions.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/sqs/src/test/java/org/jclouds/sqs/features/QueueApiLiveTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/main/java/org/jclouds/compute/JCloudsNativeComputeServiceAdapter.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/elastichosts-torp/src/test/java/org/jclouds/elastichosts/compute/ElasticHostsPeer1TorontoComputeServiceLiveTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-neutron/src/main/java/org/jclouds/openstack/neutron/v2/domain/Networks.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/main/java/org/jclouds/cloudstack/config/CloudStackProperties.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/main/java/org/jclouds/ec2/compute/functions/EC2SecurityGroupIdFromName.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/dynect/src/test/java/org/jclouds/dynect/v3/parse/ListGeoServicesResponseTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/drivers/jsch/src/test/java/org/jclouds/ssh/jsch/JschSshClientTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/ultradns-ws/src/test/java/org/jclouds/ultradns/ws/handlers/UltraDNSWSErrorHandlerTest.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/main/java/org/jclouds/cloudstack/functions/ZoneIdToZone.java
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-compute-engine/src/test/java/org/jclouds/googlecomputeengine/parse/ParseOperationTest.java  
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/rackspace-cloudidentity/src/main/java/org/jclouds/rackspace/cloudidentity/v2\_0/domain/ApiKeyCredentials.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/http/config/ConfiguresHttpCommandExecutorService.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/test/java/org/jclouds/util/Predicates2Test.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/dynect/src/test/java/org/jclouds/dynect/v3/parse/DeleteZoneChangesResponseTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/digitalocean2/src/main/java/org/jclouds/digitalocean2/config/DigitalOceanParserModule.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/aws-ec2/src/test/java/org/jclouds/aws/ec2/features/AWSSubnetApiMockTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/test/java/org/jclouds/cloudstack/features/ConfigurationApiLiveTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova/src/main/java/org/jclouds/openstack/nova/v2\_0/binders/BindSecurityGroupRuleToJsonPayload.java
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 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/ultradns-  
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 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-  
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/rackspace-clouddns/src/main/java/org/jclouds/rackspace/clouddns/v1/config/CloudDNS.java
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/sqs/src/test/java/org/jclouds/sqs/features/PermissionApiExpectTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/main/java/org/jclouds/compute/config/CustomizationResponse.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/internal/BaseView.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/main/java/org/jclouds/cloudstack/options/ListTagsOptions.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-neutron/src/main/java/org/jclouds/openstack/neutron/v2/domain/lbaas/v1/HealthMonitorStatus.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-compute-engine/src/test/java/org/jclouds/googlecomputeengine/parse/ParseNetworkListTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azurecompute-arm/src/test/java/org/jclouds/azurecompute/arm/features/DiskApiMockTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-keystone/src/main/java/org/jclouds/openstack/keystone/v2\_0/extensions/RoleAdminApi.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/docker/src/main/java/org/jclouds/docker/domain/ImageHistory.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova/src/main/java/org/jclouds/openstack/nova/v2\_0/extensions/FloatingIPPoolApi.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/packet/src/main/java/org/jclouds/packet/domain/IpAddress.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/main/java/org/jclouds/cloudstack/functions/StaticNATVirtualMachineInNetwork.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/main/java/org/jclouds/ec2/binders/BindUserGroupsToIndexedFormParams.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/blobstore/src/test/java/org/jclouds/blobstore/internal/BaseBlobStoreApiMetadataTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/softlayer/src/test/java/org/jclouds/softlayer/parse/VirtualGuestBlockDeviceTemplateGroupsParseTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/test/java/org/jclouds/ec2/binders/BindBundleIdsToIndexedFormParamsTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/main/java/org/jclouds/ec2/binders/BindGroupNamesToIndexedFormParams.java



\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/aws-ec2/src/main/java/org/jclouds/aws/ec2/xml/CreateSecurityGroupResponseHandler.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/elastichosts-dallas/src/main/java/org/jclouds/elastichosts/ElasticHostsDallasMetadata.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/test/java/org/jclouds/ec2/binders/BindUserGroupsToIndexedFormParamsTest.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/main/java/org/jclouds/compute/stub/config/StubComputeServiceDependenciesModule.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/rackspace-cloudloadbalancers/src/test/java/org/jclouds/rackspace/cloudloadbalancers/v1/features/ContentCachingApiLiveTest.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/main/java/org/jclouds/cloudstack/predicates/UserPredicates.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-keystone/src/main/java/org/jclouds/openstack/keystone/auth/functions/BaseAuthenticator.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/rackspace-cloudservers-us/src/test/java/org/jclouds/rackspace/cloudservers/us/compute/extensions/CloudServersUSImageExtensionLivetest.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/dynect/src/main/java/org/jclouds/dynect/v3/domain/Zone.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/rackspace-cloudfiles/src/main/java/org/jclouds/rackspace/cloudfiles/v1/features/CDNApi.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova/src/main/java/org/jclouds/openstack/nova/v2\_0/functions/internal/OnlyMetadataValueOrNull.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/test/java/org/jclouds/apis/BaseApiLiveTest.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/blobstore/src/main/java/org/jclouds/blobstore/attr/BlobCapability.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azurecompute-arm/src/test/java/org/jclouds/azurecompute/arm/features/VirtualMachineScaleSetApiLiveTest.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/aws-ec2/src/test/java/org/jclouds/aws/ec2/features/AWSInstanceApiLiveTest.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/gogrid/src/main/java/org/jclouds/gogrid/domain/BillingToken.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/sts/src/main/java/org/jclouds/sts/xml/UserAndSessionCredentialsHandler.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/digitalocean2/src/test/java/org/jclouds/digitalocean2/compute/functions/RegionToLocationTest.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/profitbricks/src/main/java/org/jclouds/profitbricks/features/IpBlockApi.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/main/java/org/jclouds/ec2/features/TagApi.java

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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azureblob/src/main/java/org/jclouds/azureblob/blobstore/functions/BlobPropertiesToBlobMetadata.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/main/java/org/jclouds/compute/predicates/ImagePredicates.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/lifecycle/LifeCycle.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/s3/src/test/java/org/jclouds/s3/filters/RequestAuthorizeSignatureV4Test.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/docker/src/main/java/org/jclouds/docker/options/ListContainerOptions.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-compute-engine/src/test/java/org/jclouds/googlecomputeengine/parse/ParseInstanceListTest.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/chef/src/main/java/org/jclouds/chef/domain/Sandbox.java

- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/chef/src/main/java/org/jclouds/chef/functions/ParseSearchDatabagFromJson.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/s3/src/main/java/org/jclouds/s3/domain/ListMultipartUploadsResponse.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-cloud-storage/src/test/java/org/jclouds/googlecloudstorage/parse/FullBucketGetTest.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/aws-ec2/src/main/java/org/jclouds/aws/ec2/predicates/SpotInstanceRequestActive.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-compute-engine/src/test/java/org/jclouds/googlecomputeengine/features/ImageApiLiveTest.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/test/java/org/jclouds/cloudstack/predicates/ZonePredicatesTest.java
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-swift/src/test/java/org/jclouds/openstack/swift/v1/internal/BaseSwiftApiLiveTest.java

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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/main/java/org/jclouds/cloudstack/domain/Volume.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/main/java/org/jclouds/ec2/domain/Image.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/blobstore/src/main/java/org/jclouds/blobstore/reference/package-info.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/gogrid/src/test/java/org/jclouds/gogrid/functions/ParseCredentialsFromJsonResponseTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova-ec2/src/main/java/org/jclouds/openstack/nova/ec2/config/HyphenToNullIso8601Module.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/s3/src/test/java/org/jclouds/s3/options/PutObjectOptionsTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-neutron/src/main/java/org/jclouds/openstack/neutron/v2/functions/ParseNetworks.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/rackspace-cloudfiles/src/main/java/org/jclouds/rackspace/cloudfiles/v1/CloudFilesApi.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova/src/test/java/org/jclouds/openstack/nova/v2\_0/compute/options/NovaTemplateOptionsTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/aws-ec2/src/main/java/org/jclouds/aws/ec2/xml/DescribeReservedInstancesOfferingResponseHandler.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/main/java/org/jclouds/compute/internal/FormatSharedNamesAndAppendUniqueStringToThoseWhichRepeat.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/main/java/org/jclouds/compute/ComputeServiceAdapter.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/oauth/src/main/java/org/jclouds/oauth/v2/filters/JWTBearerTokenFlow.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/openhosting-east1/src/test/java/org/jclouds/openhosting/compute/OpenHostingEast1ComputeServiceLiveTest.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/elasticstack/src/main/java/org/jclouds/elasticstack/domain/CreateDriveRequest.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/s3/src/test/java/org/jclouds/s3/internal/BaseS3ClientExpectTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azurecompute-arm/src/main/java/org/jclouds/azurecompute/arm/domain/vpn/IPSecPolicy.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/elasticstack/src/test/java/org/jclouds/elasticstack/compute/ElasticStackComputeServiceAdapterTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/rackspace-cloudloadbalancers/src/test/java/org/jclouds/rackspace/cloudloadbalancers/v1/features/SessionPersistenceApiLiveTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/s3/src/main/java/org/jclouds/s3/filters/Aws4SignerForChunkedUpload.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/softlayer/src/main/java/org/jclouds/softlayer/domain/VirtualGuestAttribute.java
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 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/main/java/org/jclouds/ec2/compute/config/EC2ComputeServiceDependenciesModule.java  
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/rest/config/ReadAnnotationsAndProperties.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/main/java/org/jclouds/cloudstack/features/GlobalCapacityApi.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-cloud-storage/src/main/java/org/jclouds/googlecloudstorage/blobstore/functions/BucketToStorageMetadata.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/json/internal/GsonWrapper.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/main/java/org/jclouds/cloudstack/options/DeployVirtualMachineOptions.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/test/java/org/jclouds/cloudstack/options/CreateNetworkOptionsTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azurecompute-arm/src/main/java/org/jclouds/azurecompute/arm/domain/VirtualMachineScaleSetDNSSettings.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/b2/src/main/java/org/jclouds/b2/domain/BucketList.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/chef/src/main/java/org/jclouds/chef/binders/BindGenerateKeyForClientToJsonPayload.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova/src/main/java/org/jclouds/openstack/nova/v2\_0/domain/ServerExtendedAttributes.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/concurrent/DynamicThreadPoolExecutor.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/profitbricks/src/main/java/org/jclouds/profitbricks/http/parser/nic/BaseNicResponseHandler.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/test/java/org/jclouds/compute/callables/InitScriptConfigurationForTasksTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/test/java/org/jclouds/rest/suppliers/SetAndThrowAuthorizationExceptionSupplierTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/main/java/org/jclouds/compute/functions/CreateSshClientOncePortIsListeningOnNode.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-

master/core/src/main/java/org/jclouds/concurrent/TransformParallelException.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/s3/src/test/java/org/jclouds/s3/functions/GetRegionForBucketTest.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/aws-ec2/src/test/java/org/jclouds/aws/ec2/parsers/DescribeSecurityGroupsResponseTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/softlayer/src/main/java/org/jclouds/softlayer/domain/internal/NetworkComponent.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova/src/test/java/org/jclouds/openstack/nova/v2\_0/parsers/ParseKeyPairListTest.java  
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova/src/test/java/org/jclouds/openstack/nova/v2\_0/extensions/FlavorExtraSpecsApiExpectTest.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azureblob/src/test/java/org/jclouds/azureblob/blobstore/integration/AzureBlobContainerIntegrationLiveTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/aws-ec2/src/test/java/org/jclouds/aws/ec2/features/SpotInstanceApiMockTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/s3/src/main/java/org/jclouds/s3/xml/DeleteResultHandler.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-neutron/src/main/java/org/jclouds/openstack/neutron/v2/domain/lbaas/v1/SessionPersistence.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/aws-ec2/src/test/java/org/jclouds/aws/ec2/binders/BindLaunchSpecificationToFormParamsTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/dynect/src/test/java/org/jclouds/dynect/v3/predicates/RecordPredicatesTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-cloud-storage/src/test/java/org/jclouds/googlecloudstorage/parse/DefaultObjectAclListTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/softlayer/src/main/java/org/jclouds/softlayer/domain/VirtualDiskImage.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova/src/main/java/org/jclouds/openstack/nova/v2\_0/domain/InterfaceAttachment.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/packet/src/main/java/org/jclouds/packet/domain/OperatingSystem.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/test/java/org/jclouds/compute/StubComputeServiceIntegrationTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/skalicloud-sdgmym/src/test/java/org/jclouds/skalicloud/compute/SkaliCloudMalaysiaTemplateBuilderLiveTest.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova/src/main/java/org/jclouds/openstack/nova/v2\_0/domain/zonescoped/RegionAndName.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/rackspace-cloudblockstorage-uk/src/test/java/org/jclouds/rackspace/cloudblockstorage/uk/CloudBlockStorageUKProviderTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/packet/src/main/java/org/jclouds/packet/compute/options/PacketTemplateOptions.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/filesystem/src/main/java/org/jclouds/filesystem/predicates/validators/internal/FilesystemContainerNameValidatorImpl.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/test/java/org/jclouds/cloudstack/CloudStackApiMetadataTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azurecompute-arm/src/main/java/org/jclouds/azurecompute/arm/domain/Probe.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/main/java/org/jclouds/ec2/compute/functions/CredentialsForInstance.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-keystone/src/test/java/org/jclouds/openstack/keystone/v2\_0/parse/ParseAccessTest.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azurecompute-arm/src/main/java/org/jclouds/azurecompute/arm/domain/ResourceProviderMetaData.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/scriptbuilder/src/test/java/org/jclouds/scriptbuilder/domain/StatementsTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/b2/src/test/java/org/jclouds/b2/features/MultipartApiLiveTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-keystone/src/main/java/org/jclouds/openstack/keystone/v2\_0/KeystoneApi.java  
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 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-  
 keystone/src/main/java/org/jclouds/openstack/keystone/v3/features/ProjectApi.java  
 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-

master/compute/src/main/java/org/jclouds/compute/domain/internal/TemplateBuilderImpl.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/ultradns-  
ws/src/main/java/org/jclouds/ultradns/ws/domain/IdAndName.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-compute-  
engine/src/test/java/org/jclouds/googlecomputeengine/compute/functions/ResetWindowsPasswordTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-  
master/blobstore/src/main/java/org/jclouds/blobstore/internal/BlobRuntimeException.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/ultradns-  
ws/src/test/java/org/jclouds/ultradns/ws/UltraDNSWSPProviderMetadataTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-  
master/apis/ec2/src/main/java/org/jclouds/ec2/compute/domain/RegionAndName.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-  
master/apis/chef/src/main/java/org/jclouds/chef/util/ChefUtils.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-  
master/apis/sts/src/main/java/org/jclouds/sts/options/SessionCredentialsOptions.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-  
master/core/src/test/java/org/jclouds/rest/binders/BindToStringPayloadTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-  
master/providers/gogrid/src/main/java/org/jclouds/gogrid/features/GridIpApi.java  
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master/apis/cloudstack/src/main/java/org/jclouds/cloudstack/config/CredentialType.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/rackspace-  
cloudidentity/src/main/java/org/jclouds/rackspace/cloudidentity/v2\_0/ServiceType.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-  
master/apis/docker/src/main/java/org/jclouds/docker/compute/functions/ImageToImage.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azurecompute-  
arm/src/test/java/org/jclouds/azurecompute/arm/features/VirtualMachineApiLiveTest.java  
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master/loadbalancer/src/main/java/org/jclouds/loadbalancer/strategy/DestroyLoadBalancerStrategy.java  
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master/apis/s3/src/test/java/org/jclouds/s3/S3Test.java  
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b/src/test/java/org/jclouds/elastichosts/ElasticHostsBlueSquareLondonProviderTest.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/skeletons/standalone-  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/rackspace-  
cloudloadbalancers-  
uk/src/test/java/org/jclouds/rackspace/cloudloadbalancers/uk/CloudLoadBalancersUKProviderTest.java  
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/test/java/org/jclouds/ec2/compute/functions/PresentInstancesTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azurecompute-arm/src/main/java/org/jclouds/azurecompute/arm/filters/ApiVersionFilter.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova/src/main/java/org/jclouds/openstack/nova/v2\_0/domain/VolumeSnapshot.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/elastichosts-hkg-e/src/test/java/org/jclouds/elastichosts/ElasticHostsHongKongProviderTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/oauth/src/main/java/org/jclouds/oauth/v2/config/CertificateFingerprintSupplier.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/test/java/org/jclouds/ec2/compute/EC2TemplateBuilderLiveTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/rackspace-cloudblockstorage-uk/src/test/java/org/jclouds/rackspace/cloudblockstorage/uk/features/CloudBlockStorageUKVolumeTypeApiLiveTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/blobstore/src/test/java/org/jclouds/blobstore/integration/internal/BaseBlobIntegrationTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/rackspace-cloudfiles/src/main/java/org/jclouds/rackspace/cloudfiles/v1/reference/CloudFilesHeaders.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-keystone/src/main/java/org/jclouds/openstack/v2\_0/domain/PaginatedCollection.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/softlayer/src/main/java/org/jclouds/softlayer/domain/Network.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/main/java/org/jclouds/compute/predicates/internal/TrueIfNullOrDeletedRefreshAndDoubleCheckOnFalse.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azurecompute-arm/src/test/java/org/jclouds/azurecompute/arm/features/LocalNetworkGatewayApiLiveTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/ultradns-ws/src/main/java/org/jclouds/ultradns/ws/UltraDNSWSResponseException.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-swift/src/test/java/org/jclouds/openstack/swift/v1/features/BulkApiMockTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/main/java/org/jclouds/ovf/xml/NetworkSectionHandler.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/rackspace-cloudnetworks-us/src/test/java/org/jclouds/rackspace/cloudnetworks/us/CloudNetworksUSPortApiLiveTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/elastichosts-lax-p/src/test/java/org/jclouds/elastichosts/compute/ElasticHostsPeer1LosAngelesTemplateBuilderLiveTest.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-cloud-storage/src/main/java/org/jclouds/googlecloudstorage/binders/UploadBinder.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-keystone/src/main/java/org/jclouds/openstack/keystone/v2\_0/options/CreateUserOptions.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/chef/src/test/java/org/jclouds/chef/features/OrganizationApiExpectTest.java

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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/main/java/org/jclouds/compute/stub/config/StubComputeServiceContextModule.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/location/config/LocationModule.java
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/sts/src/test/java/org/jclouds/sts/STSApiExpectTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/skeletons/standalone-compute/src/main/java/org/jclouds/servermanager/compute/strategy/ServerManagerComputeServiceAdapter.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/test/java/org/jclouds/cloudstack/features/FirewallApiLiveTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/main/java/org/jclouds/ec2/predicates/InstanceStateTerminated.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/test/java/org/jclouds/compute/extensions/internal/DelegatingImageExtensionTest.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-neutron/src/test/java/org/jclouds/openstack/neutron/v2/features/PortApiLiveTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/elasticstack/src/test/java/org/jclouds/elasticstack/functions/KeyValuesDelimitedByBlankLinesToDriveInfoTest.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-cloud-storage/src/test/java/org/jclouds/googlecloudstorage/parse/NoAclBucketListTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/osgi/ApiListener.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/test/java/org/jclouds/cloudstack/parse/ListCapabilitiesResponseTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/b2/src/test/java/org/jclouds/b2/blobstore/integration/B2BlobIntegrationLiveTest.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/atmos/src/main/java/org/jclouds/atmos/domain/FileType.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/blobstore/src/main/java/org/jclouds/blobstore/domain/MultipartUpload.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudwatch/src/main/java/org/jclouds/cloudwatch/options/ListAlarmsForMetric.java



- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/docker/src/main/java/org/jclouds/docker/options/RemoveContainerOptions.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/main/java/org/jclouds/ec2/xml/GetConsoleOutputResponseHandler.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova/src/main/java/org/jclouds/openstack/nova/v2\_0/domain/BackupType.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/test/java/org/jclouds/rest/config/ReadAnnotationsAndPropertiesTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/docker/src/test/java/org/jclouds/docker/features/ImageApiLiveTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/ultradns/ws/src/main/java/org/jclouds/ultradns/ws/domain/AccountLevelGroup.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/sts/src/main/java/org/jclouds/sts/STSApi.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/test/java/org/jclouds/cloudstack/features/LoadBalancerApiTest.java
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/ultradns/ws/src/test/java/org/jclouds/ultradns/ws/features/ResourceRecordApiLiveTest.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/main/java/org/jclouds/cim/xml/VirtualSystemSettingDataHandler.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/blobstore/src/main/java/org/jclouds/blobstore/options/CopyOptions.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/test/java/org/jclouds/http/internal/WireTest.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azurecompute-arm/src/test/java/org/jclouds/azurecompute/arm/features/VaultApiLiveTest.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azurecompute-arm/src/main/java/org/jclouds/azurecompute/arm/config/AzureComputeParserModule.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/chef/src/main/java/org/jclouds/chef/strategy/internal/ListEnvironmentsImpl.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/b2/src/test/java/org/jclouds/b2/features/ObjectApiLiveTest.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-cloud-storage/src/test/java/org/jclouds/googlecloudstorage/features/BucketApiLiveTest.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/reflect/Reflection2.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/rackspace-cloudloadbalancers/src/main/java/org/jclouds/rackspace/cloudloadbalancers/v1/domain/Metadata.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/main/java/org/jclouds/compute/util/ConcurrentOpenSocketFinder.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/io/payloads/ByteArrayPayload.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-compute-engine/src/test/java/org/jclouds/googlecomputeengine/parse/ParseAddressTest.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/softlayer/src/test/java/org/jclouds/softlayer/handlers/SoftLayerErrorHandlerTest.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/test/java/org/jclouds/compute/suppliers/ImageCacheSupplierTest.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/atmos/src/main/java/org/jclouds/atmos/binders/BindMetadataToHeaders.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/test/java/org/jclouds/compute/predicates/AtomicNodePredicatesTest.java

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 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/atmos/src/test/java/org/jclouds/atmos/blobstore/integration/AtmosServiceIntegrationLiveTest.java  
 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/scriptbuilder/src/test/java/org/jclouds/scriptbuilder/domain/CreateOrOverwriteFileTest.java  
 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/rest/annotations/OnlyElement.java  
 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/digitalocean2/src/test/java/org/jclouds/digitalocean2/features/SizeApiMockTest.java  
 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/main/java/org/jclouds/cloudstack/features/SecurityGroupApi.java  
 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/test/java/org/jclouds/ec2/features/AMIApiLiveTest.java  
 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/route53/src/main/java/org/jclouds/route53/handlers/Route53ErrorHandler.java  
 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-neutron/src/main/java/org/jclouds/openstack/neutron/v2/functions/VersionAwareRegionToEndpoint.java  
 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azurecompute-arm/src/main/java/org/jclouds/azurecompute/arm/handlers/AzureRetryableErrorHandler.java  
 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/softlayer/src/test/java/org/jclouds/softlayer/features/VirtualGuestBlockDeviceTemplateGroupApiLiveTest.java  
 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova/src/main/java/org/jclouds/openstack/nova/v2\_0/extensions/ServerWithSecurityGroupsApi.java  
 \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/ultradns-

ws/src/main/java/org/jclouds/ultradns/ws/features/RoundRobinPoolApi.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/rackspace-cloudservers-uk/src/main/java/org/jclouds/rackspace/cloudservers/uk/CloudServersUKProviderMetadata.java  
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master/apis/cloudstack/src/main/java/org/jclouds/cloudstack/features/ZoneApi.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/scriptbuilder/src/test/java/org/jclouds/scriptbuilder/domain/CallTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/glesys/src/main/java/org/jclouds/glesys/features/IpApi.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/route53/src/test/java/org/jclouds/route53/features/HostedZoneApiExpectTest.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/javax/annotation/concurrent/NotThreadSafe.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova/src/main/java/org/jclouds/openstack/nova/v2\_0/extensions/FlavorExtraSpecsApi.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/oauth/src/test/java/org/jclouds/oauth/v2/config/PrivateKeySupplierTest.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/scriptbuilder/src/main/java/org/jclouds/scriptbuilder/domain/Kill.java

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swift/src/main/java/org/jclouds/openstack/swift/v1/TemporaryUrlSigner.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/scriptbuilder/src/test/java/org/jclouds/scriptbuilder/functions/InitAdminAccessTest.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/main/java/org/jclouds/ovf/VirtualSystem.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/elastichosts-lax-p/src/test/java/org/jclouds/elastichosts/ElasticHostsPeer1LosAngelesApiLiveTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/main/java/org/jclouds/cim/ManagedElement.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudwatch/src/main/java/org/jclouds/cloudwatch/options/GetMetricStatisticsOptions.java  
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/main/java/org/jclouds/cloudstack/domain/NetworkService.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/main/java/org/jclouds/cloudstack/features/GlobalUsageApi.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azureblob/src/test/java/org/jclouds/azureblob/xml/ContainerNameEnumerationResultsHandlerTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/docker/src/main/java/org/jclouds/docker/util/StdStreamData.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/profitbricks/src/main/java/org/jclouds/profitbricks/http/parser/storage/StorageIdOnlyResponseHandler.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/b2/src/main/java/org/jclouds/b2/domain/UploadPartResponse.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/rackspace-cloudloadbalancers/src/main/java/org/jclouds/rackspace/cloudloadbalancers/v1/domain/ConnectionThrottle.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/location/suppliers/ZoneIdToURISupplier.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/blobstore/src/test/java/org/jclouds/blobstore/options/ListOptionsTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-compute-engine/src/test/java/org/jclouds/googlecomputeengine/internal/BaseGoogleComputeEngineExpectTest.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/rackspace-cloudloadbalancers/src/main/java/org/jclouds/rackspace/cloudloadbalancers/v1/domain/internal/BaseLoadBalancer.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/s3/src/main/java/org/jclouds/s3/predicates/validators/BucketNameValidator.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/profitbricks/src/test/java/org/jclouds/profitbricks/features/NicApiLiveTest.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/location/suppliers/all/JustProvider.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/dynect/src/main/java/org/jclouds/dynect/v3/domain/rdata/SSHFPData.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/profitbricks/src/main/java/org/jclouds/profitbricks/http/parser/server/ServerListResponseHandler.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/main/java/org/jclouds/compute/domain/CloneImageTemplate.java

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/rackspace-cloudservers-us/src/test/java/org/jclouds/rackspace/cloudservers/us/features/CloudServersUSImageApiLiveTest.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/aws-s3/src/main/java/org/jclouds/aws/s3/filters/AWSRequestAuthorizeSignature.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova/src/test/java/org/jclouds/openstack/nova/v2\_0/features/ImageApiExpectTest.java



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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/chef/src/main/java/org/jclouds/chef/suppliers/ChefVersionSupplier.java

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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/rackspace-cloudblockstorage-

us/src/test/java/org/jclouds/rackspace/cloudblockstorage/us/features/CloudBlockStorageUSVolumeAndSnapshotApiLiveTest.java

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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/test/java/org/jclouds/cloudstack/parse/EnableStaticNATResponseWhereResponseDoesntHaveJobTest.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-cloud-storage/src/main/java/org/jclouds/googlecloudstorage/options/UpdateBucketOptions.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/rackspace-cloudloadbalancers/src/test/java/org/jclouds/rackspace/cloudloadbalancers/v1/handlers/ParseCloudLoadBalancersErrorFromHttpResponseTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/test/java/org/jclouds/compute/callables/ScriptStillRunningExceptionTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/test/java/org/jclouds/cloudstack/features/NetworkApiLiveTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/rackspace-clouddns/src/main/java/org/jclouds/rackspace/clouddns/v1/CloudDNSApi.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/scriptbuilder/src/test/java/org/jclouds/scriptbuilder/ScriptBuilderTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/test/java/org/jclouds/ec2/compute/config/EC2ComputeServiceContextModuleTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/packet/src/main/java/org/jclouds/packet/compute/functions/DeviceToNodeMetadata.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-keystone/src/main/java/org/jclouds/openstack/keystone/v2\_0/features/ServiceApi.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/b2/src/main/java/org/jclouds/b2/features/BucketApi.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/io/payloads/FilePayload.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/chef/src/test/java/org/jclouds/chef/functions/ParseCookbookNamesFromJsonTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/digitalocean2/src/test/java/org/jclouds/digitalocean2/features/ImageApiLiveTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/test/java/org/jclouds/compute/callables/BlockUntilInitScriptStatusIsZeroThenReturnOutputTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudwatch/src/main/java/org/jclouds/cloudwatch/binders/GetMetricStatisticsBinder.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/elastichosts-dalla/src/test/java/org/jclouds/elastichosts/ElasticHostsDallasApiLiveTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/rackspace-cloudfiles-us/src/test/java/org/jclouds/rackspace/cloudfiles/us/blobstore/integration/CloudFilesUSServiceIntegrationLiveTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-swift/src/main/java/org/jclouds/openstack/swift/v1/blobstore/RegionScopedTemporaryUrlBlobSigner.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova/src/main/java/org/jclouds/openstack/nova/v2\_0/domain/PortState.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-compute-engine/src/main/java/org/jclouds/googlecomputeengine/domain/Firewall.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/profitbricks/src/main/java/org/jclouds/profitbricks/http/parser/state/GetProvisioningStateResponse



Handler.java

- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-cloud-storage/src/main/java/org/jclouds/googlecloudstorage/options/CopyObjectOptions.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/scriptbuilder/src/main/java/org/jclouds/scriptbuilder/EnvBuilder.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/test/java/org/jclouds/compute/domain/internal/ArbitraryCpuRamTemplateBuilderImplTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/date/DateCodec.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-neutron/src/main/java/org/jclouds/openstack/neutron/v2/functions/RulesToPagedIterable.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-cloud-storage/src/test/java/org/jclouds/googlecloudstorage/internal/BaseGoogleCloudStorageParseTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/test/java/org/jclouds/http/internal/BaseHttpCommandExecutorServiceTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/test/java/org/jclouds/cloudstack/compute/functions/CloudStackSecurityGroupToSecurityGroupTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/main/java/org/jclouds/cloudstack/predicates/SecurityGroupPredicates.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azurecompute-arm/src/test/java/org/jclouds/azurecompute/arm/features/NetworkSecurityGroupApiLiveTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/main/java/org/jclouds/ec2/compute/config/EC2ResolveImagesModule.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/byon/src/main/java/org/jclouds/byon/suppliers/NodesParsedFromSupplier.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/test/java/org/jclouds/cloudstack/parse/DeployVirtualMachineResponse4xTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/main/java/org/jclouds/ec2/domain/InstanceState.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/packet/src/main/java/org/jclouds/packet/config/PacketHttpApiModule.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-keystone/src/test/java/org/jclouds/openstack/keystone/v3/features/ProjectApiMockTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-cloud-storage/src/main/java/org/jclouds/googlecloudstorage/options/InsertBucketOptions.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/glesys/src/test/java/org/jclouds/glesys/compute/internal/BaseGleSYSComputeServiceExpectTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/drivers/jsch/src/main/java/org/jclouds/ssh/jsch/config/JschSshClientModule.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/drivers/jsch/src/main/java/org/jclouds/ssh/jsch/SessionConnection.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/blobstore/src/main/java/org/jclouds/blobstore/LocalStorageStrategy.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova/src/test/java/org/jclouds/openstack/nova/v2\_0/extensions/SecurityGroupApiLiveTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-

master/apis/cloudstack/src/main/java/org/jclouds/cloudstack/domain/AsyncJobError.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-compute-engine/src/test/java/org/jclouds/googlecomputeengine/features/OperationApiLiveTest.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/test/java/org/jclouds/cloudstack/options/AddHostOptionsTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/main/java/org/jclouds/compute/functions/GroupNamingConvention.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-compute-engine/src/test/java/org/jclouds/googlecomputeengine/features/FirewallApiMockTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/docker/src/test/java/org/jclouds/docker/compute/SshToCustomPortLiveTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/test/java/org/jclouds/ec2/options/DescribeSnapshotsOptionsTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/apis/internal/BaseApiMetadata.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/common/openstack/src/main/java/org/jclouds/openstack/domain/Link.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/gogrid/src/main/java/org/jclouds/gogrid/functions/ParseLoadBalancerFromJsonResponse.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/sqs/src/test/java/org/jclouds/sqs/internal/BaseSQSApiExpectTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/main/java/org/jclouds/compute/config/BindComputeStrategiesByClass.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/ultradns-ws/src/main/java/org/jclouds/ultradns/ws/xml/ResourceRecordListHandler.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/profitbricks/src/test/java/org/jclouds/profitbricks/http/parser/snapshot/SnapshotListResponseHandlerTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azurecompute-arm/src/main/java/org/jclouds/azurecompute/arm/exceptions/AzureComputeRateLimitExceededException.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/main/java/org/jclouds/ec2/xml/DescribeSubnetsResponseHandler.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/rest/functions/AlwaysPresentImplicitOptionalConverter.java

- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/byon/src/test/java/org/jclouds/byon/functions/NodesFromYamlTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudwatch/src/main/java/org/jclouds/cloudwatch/xml/ListMetricsResponseHandler.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/main/java/org/jclouds/ec2/util/SubnetFilterBuilder.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-keystone/src/test/java/org/jclouds/openstack/keystone/v3/internal/BaseV3KeystoneApiMockTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/ultradns-ws/src/main/java/org/jclouds/ultradns/ws/xml/DirectionalPoolListHandler.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/drivers/okhttp/src/test/java/org/jclouds/http/okhttp/OkHttpCommandExecutorServiceTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/test/java/org/jclouds/ec2/xml/BundleTaskHandlerTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/gogrid/src/main/java/org/jclouds/gogrid/filters/SharedKeyLiteAuthentication.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-cloud-storage/src/main/java/org/jclouds/googlecloudstorage/domain/BucketAccessControls.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/rackspace-cloudloadbalancers/src/main/java/org/jclouds/rackspace/cloudloadbalancers/v1/domain/LoadBalancer.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-swift/src/main/java/org/jclouds/openstack/swift/v1/config/SwiftTypeAdapters.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/dynect/src/main/java/org/jclouds/dynect/v3/domain/RecordSet.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova/src/test/java/org/jclouds/openstack/nova/v2\_0/parse/ParseFloatingIPTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/main/java/org/jclouds/cloudstack/domain/ZoneSecurityGroupNamePortsCidrs.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/main/java/org/jclouds/ec2/compute/loaders/RegionAndIdToImage.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/elasticstack/src/main/java/org/jclouds/elasticstack/functions/ListOfKeyValuesDelimitedByBlankLinesToListOfMaps.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/main/java/org/jclouds/ec2/domain/PublicIpInstanceIdPair.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/dynect/src/main/java/org/jclouds/dynect/v3/domain/SOARRecord.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/rackspace-clouddns/src/main/java/org/jclouds/rackspace/clouddns/v1/domain/Domain.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-compute-engine/src/test/java/org/jclouds/googlecomputeengine/parse/ParseDiskListTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/byon/src/main/java/org/jclouds/byon/config/BYONComputeServiceContextModule.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/chef/src/main/java/org/jclouds/chef/domain/Metadata.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azureblob/src/main/java/org/jclouds/azureblob/domain/BlobProperties.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azurecompute-

arm/src/main/java/org/jclouds/azurecompute/arm/domain/VirtualMachineProperties.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/drivers/joda/src/main/java/org/jclouds/date/joda/config/JodaDateServiceModule.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/elasticstack/src/test/java/org/jclouds/elasticstack/functions/SplitNewlinesTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-compute-engine/src/test/java/org/jclouds/googlecomputeengine/binders/TargetPoolAddInstanceBinderTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-neutron/src/main/java/org/jclouds/openstack/neutron/v2/domain/RuleProtocol.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/glesys/src/main/java/org/jclouds/glesys/domain/ServerUptime.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/docker/src/test/java/org/jclouds/docker/parse/ImageParseTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/route53/src/main/java/org/jclouds/route53/predicates/HostedZonePredicates.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/Constants.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/main/java/org/jclouds/compute/domain/NodeMetadataBuilder.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/packet/src/test/java/org/jclouds/packet/features/FacilityApiLiveTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/aws-s3/src/main/java/org/jclouds/aws/s3/blobstore/AWSS3BlobStoreContext.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/test/java/org/jclouds/cloudstack/PasswordAuthenticationExpectTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-

master/providers/dynect/src/test/java/org/jclouds/dynect/v3/features/SessionApiLiveTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/rackspace-cloudfiles-uk/src/test/java/org/jclouds/rackspace/cloudfiles/uk/features/CloudFilesUKStaticLargeObjectApiLiveTest.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/aws-route53/src/main/java/org/jclouds/aws/route53/AWSRoute53ProviderMetadata.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/test/java/org/jclouds/json/GsonExperimentsTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/aws-ec2/src/test/java/org/jclouds/aws/ec2/features/VPCApiMockTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/main/java/org/jclouds/cloudstack/predicates/NetworkPredicates.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/docker/src/main/java/org/jclouds/docker/features/MiscApi.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/aws-ec2/src/test/java/org/jclouds/aws/ec2/features/MonitoringApiMockTest.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/elasticstack/src/main/java/org/jclouds/elasticstack/domain/Drive.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova-ec2/src/main/java/org/jclouds/openstack/nova/ec2/features/NovaEC2KeyPairApi.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudwatch/src/main/java/org/jclouds/cloudwatch/domain/AutoScalingConstants.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/test/java/org/jclouds/cloudstack/parse/ListOSTypesResponseTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/google-cloud-storage/src/main/java/org/jclouds/googlecloudstorage/features/ObjectApi.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azurecompute-arm/src/test/java/org/jclouds/azurecompute/arm/features/StorageAccountApiLiveTest.java

- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/test/java/org/jclouds/location/predicates/fromconfig/AnyOrConfiguredRegionIdTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/rackspace-cloudloadbalancers/src/main/java/org/jclouds/rackspace/cloudloadbalancers/v1/domain/AccessRule.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-keystone/src/main/java/org/jclouds/openstack/keystone/v3/features/RegionApi.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/drivers/jsch/src/main/java/org/jclouds/ssh/jsch/JschSshClient.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/elastichosts-tor-p/src/test/java/org/jclouds/elastichosts/ElasticHostsPeer1TorontoApiLiveTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/main/java/org/jclouds/ec2/features/ElasticBlockStoreApi.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azurecompute-arm/src/test/java/org/jclouds/azurecompute/arm/features/LocationApiLiveTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/rackspace-cloudloadbalancers/src/test/java/org/jclouds/rackspace/cloudloadbalancers/v1/features/ErrorMessageApiExpectTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/main/java/org/jclouds/cim/CIMPredicates.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/azureblob/src/test/java/org/jclouds/azureblob/config/AzureBlobHttpApiModuleTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-swift/src/test/java/org/jclouds/openstack/swift/v1/blobstore/RegionScopedSwiftBlobStoreParallelLiveTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/location/suppliers/ImplicitLocationSupplier.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/scriptbuilder/src/main/java/org/jclouds/scriptbuilder/InitScript.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/gogrid/src/test/java/org/jclouds/gogrid/features/GridLoadBalancerApiTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/main/java/org/jclouds/util/Strings2.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-nova/src/test/java/org/jclouds/openstack/nova/v2\_0/features/ServerApiExpectTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/route53/src/test/java/org/jclouds/route53/Route53ApiMetadataTest.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/ec2/src/test/java/org/jclouds/ec2/options/RunInstancesOptionsTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-neutron/src/main/java/org/jclouds/openstack/neutron/v2/fallbacks/lbaas/v1/EmptyVIPsFallback.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/cloudstack/src/main/java/org/jclouds/cloudstack/functions/ParseIdToNameFromHttpResponse.java
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- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/providers/rackspace-cloudloadbalancers-uk/src/test/java/org/jclouds/rackspace/cloudloadbalancers/uk/CloudLoadBalancersUKLoadBalancerClientLiveTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/docker/src/test/java/org/jclouds/docker/compute/strategy/PredicateLocateImageByNameTest.java
- \* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-

master/core/src/test/java/org/jclouds/location/suppliers/implicit/FirstZoneTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/openstack-  
neutron/src/main/java/org/jclouds/openstack/neutron/v2/features/PortApi.java  
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master/apis/elasticstack/src/main/java/org/jclouds/elasticstack/functions/KeyValuesDelimitedByBlankLinesToDrive  
Info.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-  
master/core/src/main/java/org/jclouds/json/config/GsonModule.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-  
master/compute/src/main/java/org/jclouds/ovf/internal/BaseEnvelope.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-  
master/core/src/main/java/org/jclouds/concurrent/config/ConfiguresExecutorService.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/rackspace-  
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master/core/src/main/java/org/jclouds/rest/annotations/SinceApiVersion.java  
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engine/src/test/java/org/jclouds/googlecomputeengine/parse/ParseGlobalOperationTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-  
master/providers/dynect/src/test/java/org/jclouds/dynect/v3/parse/GetZoneResponseTest.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-  
master/providers/digitalocean2/src/main/java/org/jclouds/digitalocean2/compute/extensions/DigitalOcean2ImageExt  
ension.java  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-  
master/providers/profitbricks/src/main/java/org/jclouds/profitbricks/http/parser/nic/NicIdOnlyResponseHandler.java  
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master/scriptbuilder/src/main/resources/functions/abort.cmd  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-  
master/scriptbuilder/src/main/resources/functions/stop.cmd  
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master/scriptbuilder/src/main/resources/functions/forget.cmd  
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master/scriptbuilder/src/main/resources/functions/findPid.cmd  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-  
master/scriptbuilder/src/main/resources/functions/nextMinute.cmd  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-  
master/scriptbuilder/src/main/resources/functions/validateEnvFile.cmd  
\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-

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* /opt/cola/permits/1097707105_1605563533.8/0/jclouds-master-zip/jclouds-master/core/src/test/resources/META-
INF/maven/org.apache.jclouds/jclouds-core/pom.properties
* /opt/cola/permits/1097707105_1605563533.8/0/jclouds-master-zip/jclouds-
master/apis/byon/src/test/resources/test_location.yaml
* /opt/cola/permits/1097707105_1605563533.8/0/jclouds-master-zip/jclouds-
master/apis/byon/src/test/resources/test_with_url.yaml
* /opt/cola/permits/1097707105_1605563533.8/0/jclouds-master-zip/jclouds-
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```

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*/
```

/\*

Sha512Crypt.java

Created: 18 December 2007

Last Changed By: \$Author: broccol \$

Version: \$Revision: 7692 \$

Last Mod Date: \$Date: 2007-12-30 01:55:31 -0600 (Sun, 30 Dec 2007) \$

Java Port By: James Ratcliff, falazar@arlut.utexas.edu

This class implements the new generation, scalable, SHA512-based Unix 'crypt' algorithm developed by a group of engineers from Red Hat, Sun, IBM, and HP for common use in the Unix and Linux /etc/shadow files.

The Linux glibc library (starting at version 2.7) includes support for validating passwords hashed using this algorithm.

The algorithm itself was released into the Public Domain by Ulrich Drepper <drepper@redhat.com>. A discussion of the rationale and development of this algorithm is at

<http://people.redhat.com/drepper/sha-crypt.html>

and the specification and a sample C language implementation is at

<http://people.redhat.com/drepper/SHA-crypt.txt>

This Java Port is

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\*/

/\*\*

\* This class defines a method,

\* {@link Sha512Crypt#Sha512\_crypt(java.lang.String, java.lang.String, int)}

\* Sha512\_crypt()}, which takes a password and a salt string and generates a  
\* Sha512 encrypted password entry.  
\*  
\* This class implements the new generation, scalable, SHA512-based Unix 'crypt'  
\* algorithm developed by a group of engineers from Red Hat, Sun, IBM, and HP  
\* for common use in the Unix and Linux /etc/shadow files.  
\*  
\* The Linux glibc library (starting at version 2.7) includes support for  
\* validating passwords hashed using this algorithm.  
\*  
\* The algorithm itself was released into the Public Domain by Ulrich Drepper  
\* &lt;drepper@redhat.com&gt;. A discussion of the rationale and development of  
\* this algorithm is at  
\*  
\* <http://people.redhat.com/drepper/sha-crypt.html>  
\*  
\* and the specification and a sample C language implementation is at  
\*  
\* <http://people.redhat.com/drepper/SHA-crypt.txt>  
\*/

Found in path(s):

\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/compute/src/main/java/org/jclouds/compute/functions/Sha512Crypt.java  
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\* /opt/cola/permits/1097707105\_1605563533.8/0/jclouds-master-zip/jclouds-master/apis/rackspace-cloudloadbalancers/src/test/resources/errorpage.html

## 1.381 vt-password 3.1.2

## 1.382 gpgme 1.3.2 5.el7

### 1.382.1 Available under license :

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```
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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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multi\_server\_socket  
term\_glyph

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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.  
FILE FORMAT WARS Software \*not\* to get.  
TO DO            Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

usage.txt        Usage instructions for cjpeg, djpeg, jpegtran,  
                 rdjpgcom, and wrjpgcom.  
\*.1              Unix-style man pages for programs (same info as usage.txt).  
wizard.txt       Advanced usage instructions for JPEG wizards only.  
change.log       Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.txt    How to use the JPEG library in your own programs.  
example.c     Sample code for calling the JPEG library.  
structure.txt  Overview of the JPEG library's internal structure.  
coderrules.txt Coding style rules --- please read if you contribute code.

Please read at least usage.txt. Some 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

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This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and grayscale images. JPEG's strong suit is compressing photographic images or other types of images that have smooth color and brightness transitions between neighboring pixels. Images with sharp lines or other abrupt features may not compress well with JPEG, and a higher JPEG quality may have to be used to avoid visible compression artifacts with such images.

JPEG is lossy, meaning that the output pixels are not necessarily identical to the input pixels. However, on photographic content and other "smooth" images, very good compression ratios can be obtained with no visible compression artifacts, and extremely high compression ratios are possible if you are willing to sacrifice image quality (by reducing the "quality" setting in the compressor.)

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. 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.

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The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent (now expired), 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 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 PDF file containing a revised version of Wallace's article is

available at <http://www.ijg.org/files/Wallace.JPEG.pdf>. 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 best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2).

The original JPEG 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.

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. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from

<http://www.ecma-international.org/publications/techreports/E-TR-098.htm>.

A PostScript version of the JFIF document is available at

<http://www.ijg.org/files/jfif.ps.gz>. There is also a plain text version at

<http://www.ijg.org/files/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 <http://www.ijg.org/files/>. 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.

## ARCHIVE LOCATIONS

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The "official" archive site for this software is [www.ijg.org](http://www.ijg.org).  
The most recent released version can always be found there in  
directory "files".

The JPEG FAQ (Frequently Asked Questions) article is a source of some  
general information about JPEG.

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): <ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/>.  
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## FILE FORMAT WARS

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The ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together  
with ITU-T SG16) currently promotes different formats containing the name  
"JPEG" which are incompatible with original DCT-based JPEG. IJG therefore does  
not support these formats (see REFERENCES). Indeed, one of the original  
reasons for developing this free software was to help force convergence on  
common, interoperable format standards for JPEG files.

Don't use an incompatible file format!  
(In any case, our decoder will remain capable of reading existing JPEG  
image files indefinitely.)

## TO DO

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Please send bug reports, offers of help, etc. to [jpeg-info@jpegclub.org](mailto:jpeg-info@jpegclub.org).

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libsdl  
skia

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node\_preamble

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vector\_math

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vulkanmemoryallocator

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zlib

zlib.h -- interface of the 'zlib' general purpose compression library  
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=begin comment

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{{#appName}}  
{{{appName}}}
```

```
{{/appName}}  
{{#appDescription}}  
{{{appDescription}}}
```

```
{{/appDescription}}  
{{#version}}OpenAPI spec version: {{version}}{/version}}  
{{#infoEmail}}Contact: {{{infoEmail}}}{/infoEmail}}  
Generated by: https://github.com/swagger-api/swagger-codegen.git
```

=end comment

=cut

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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](mailto: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](http://FasterXML.com).

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# 1.386 jaxb-api 2.3.0

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- Unnamed - log4j:log4j:jar:1.2.12
- Unnamed - logkit:logkit:jar:1.0.1

## 1.388 e2fsprogs 1.42.9-19.el7

### 1.388.1 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 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.  
+ trivial database library - standalone version

- trivial database library - private includes

-

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Theodore Ts'o  
23-June-2007

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```
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```

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That's all there is to it!

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

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

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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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```
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```

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```
Gnomovision version 69, Copyright (C) 19yy name of author  
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This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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```
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```

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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## 1.389 jcommon 1.0.16

### 1.389.1 Available under license :

```
/* =====
 * JCommon : a free general purpose class library for the Java(tm) platform
 * =====
 *
 * (C) Copyright 2000-2005, by Object Refinery Limited and Contributors.
 *
 * Project Info: http://www.jfree.org/jcommon/index.html
 *
 * This library is free software; you can redistribute it and/or modify it
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 *
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 * Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301,
 * USA.
 *
 * [Java is a trademark or registered trademark of Sun Microsystems, Inc.
 * in the United States and other countries.]
 *
 * -----
 * Contributor.java
 * -----
 * (C) Copyright 2001-2004, by Object Refinery Limited.
 *
 * Original Author: David Gilbert (for Object Refinery Limited);
 * Contributor(s): -;
 *
 * $Id: Contributor.java,v 1.4 2005/11/16 15:58:41 taqua Exp $
```

```
*
* Changes
* -----
* 10-Dec-2001 : Version 1 (DG);
* 28-Feb-2002 : Moved into package com.jrefinery.ui.about (DG);
* 08-Oct-2002 : Fixed errors reported by Checkstyle (DG);
*
*/
```

```
package org.jfree.ui.about;
```

```
/**
 * A simple class representing a contributor to a software project.
 * <P>
 * Used in the AboutFrame class.
 *
 * @author David Gilbert
 */
```

```
public class Contributor {

    /** The name. */
    private String name;

    /** The e-mail address. */
    private String email;

    /**
     * Creates a new contributor.
     *
     * @param name the name.
     * @param email the e-mail address.
     */
    public Contributor(final String name, final String email) {
        this.name = name;
        this.email = email;
    }

    /**
     * Returns the contributor's name.
     *
     * @return the contributor's name.
     */
    public String getName() {
        return this.name;
    }

    /**
     * Returns the contributor's e-mail address.
```

```

*
* @return the contributor's e-mail address.
*/
public String getEmail() {
    return this.email;
}
}
/* =====
* JCommon : a free general purpose class library for the Java(tm) platform
* =====
*
* (C) Copyright 2000-2005, by Object Refinery Limited and Contributors.
*
* Project Info: http://www.jfree.org/jcommon/index.html
*
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*
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* License for more details.
*
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* USA.
*
* [Java is a trademark or registered trademark of Sun Microsystems, Inc.
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*
* -----
* Licences.java
* -----
* (C) Copyright 2001-2004, by Object Refinery Limited.
*
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;
*
* $Id: Licences.java,v 1.4 2005/11/16 15:58:41 taqua Exp $
*
* Changes
* -----
* 26-Nov-2001 : Version 1 (DG);
* 29-Jan-2002 : Appended the instructions to the end of the GNU LGPL and GPL to comply with

```

```

*      GNU requirements (DG);
* 28-Feb-2002 : Moved to package com.jrefinery.ui.about (DG);
* 08-Oct-2002 : Fixed errors reported by Checkstyle (DG);
*
*/

```

```
package org.jfree.ui.about;
```

```
/**
```

```
* Contains the full texts of the GNU General Public Licence and the GNU Lesser General Public
* Licence.
```

```
* <P>
```

```
* These are used in the presentation of a standard 'About' frame.
```

```
*
```

```
* @author David Gilbert
```

```
*/
```

```
public class Licences {
```

```
    /** The GNU General Public Licence. */
```

```
    public static final String GPL = "GNU GENERAL PUBLIC LICENSE\n"
```

```
        + "\n"
```

```
        + "Version 2, June 1991\n"
```

```
        + "\n"
```

```
        + "Copyright (C) 1989, 1991 Free Software Foundation, Inc. 675 Mass Ave, Cambridge, "
```

```
        + "MA 02139, USA. Everyone is permitted to copy and distribute verbatim copies of this "
```

```
        + "license document, but changing it is not allowed.\n"
```

```
        + "\n"
```

```
        + "Preamble\n"
```

```
        + "The licenses for most software are designed to take away your freedom to share and "
```

```
        + "change it. By contrast, the GNU General Public License is intended to guarantee your "
```

```
        + "freedom to share and change free software--to make sure the software is free for all "
```

```
        + "its users. This General Public License applies to most of the Free Software "
```

```
        + "Foundation's software and to any other program whose authors commit to using it. (Some "
```

```
        + "other Free Software Foundation software is covered by the GNU Library General Public "
```

```
        + "License instead.) You can apply it to your programs, too.\n"
```

```
        + "\n"
```

```
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```

```
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```

```
        + "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."
```

```
        + "\n"
```

```
        + "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 software, or if you "
```

```
        + "modify it.\n"
```

```
        + "\n"
```

```
        + "For example, if you distribute copies of such a program, whether gratis or for a fee, "
```



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+ "\n"

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+ "\n"

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+ "\n"

+ "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.\n"

+ "\n"

+ "3. You may copy and distribute the Program (or a work based on it, under Section 2) in "

+ "object code or executable form under the terms of Sections 1 and 2 above provided that "

+ "you also do one of the following:\n"

+ "\n"

+ "a) 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; or,\n"

+ "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,\n"  
+ "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.)\n"  
+ "\n"  
+ "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.\n"  
+ "\n"  
+ "If distribution of executable or 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 counts as distribution of the source code, even though third parties are "  
+ "not compelled to copy the source along with the object code.\n"  
+ "\n"  
+ "4. You may not copy, modify, sublicense, or distribute the Program except as expressly "  
+ "provided under this License. Any attempt otherwise to copy, modify, sublicense or "  
+ "distribute the Program 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."  
+ "\n"  
+ "5. You are not required to accept this License, since you have not signed it. However, "  
+ "nothing else grants you permission to modify or distribute the Program or its "  
+ "derivative works. These actions are prohibited by law if you do not accept this "  
+ "License. Therefore, by modifying or distributing the Program (or any work based on the "  
+ "Program), you indicate your acceptance of this License to do so, and all its terms and "  
+ "conditions for copying, distributing or modifying the Program or works based on it.\n"  
+ "\n"  
+ "6. Each time you redistribute the Program (or any work based on the Program), the "  
+ "recipient automatically receives a license from the original licensor to copy, "  
+ "distribute or modify the Program subject to these terms and conditions. You may not "  
+ "impose any further restrictions on the recipients' exercise of the rights granted "  
+ "herein. You are not responsible for enforcing compliance by third parties to this "  
+ "License."  
+ "\n"  
+ "7. 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 "  
+ "Program at all. For example, if a patent license would not permit royalty-free "  
+ "redistribution of the Program 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 Program.\n"  
+ "\n"  
+ "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.\n"  
+ "\n"  
+ "It is not the purpose of this section to induce you to infringe any patents or other "  
+ "property right claims or to contest validity of any such claims; this section has the "  
+ "sole purpose of protecting the integrity of the free software distribution system, "  
+ "which is implemented by public license practices. Many people have made generous "  
+ "contributions to the wide range of software distributed through that system in "  
+ "reliance on consistent application of that system; it is up to the author/donor to "  
+ "decide if he or she is willing to distribute software through any other system and a "  
+ "licensee cannot impose that choice.\n"  
+ "\n"  
+ "This section is intended to make thoroughly clear what is believed to be a consequence "  
+ "of the rest of this License.\n"  
+ "\n"  
+ "8. If the distribution and/or use of the Program is restricted in certain countries "  
+ "either by patents or by copyrighted interfaces, the original copyright holder who "  
+ "places the Program under this License may add an explicit geographical distribution "  
+ "limitation excluding those countries, so that distribution is permitted only in or "  
+ "among countries not thus excluded. In such case, this License incorporates the "  
+ "limitation as if written in the body of this License.\n"  
+ "\n"  
+ "9. The Free Software Foundation may publish revised and/or new versions of the General "  
+ "Public License from time to time. Such new versions will be similar in spirit to the "  
+ "present version, but may differ in detail to address new problems or concerns.\n"  
+ "\n"  
+ "Each version is given a distinguishing version number. If the Program specifies a "  
+ "version number of this License which applies to it and \"any later version\", you have "  
+ "the option of following the terms and conditions either of that version or of any "  
+ "later version published by the Free Software Foundation. If the Program does not "  
+ "specify a version number of this License, you may choose any version ever published by "  
+ "the Free Software Foundation.\n"  
+ "\n"  
+ "10. If you wish to incorporate parts of the Program into other free programs whose "  
+ "distribution conditions are different, write to the author to ask for permission. For "  
+ "software which is copyrighted by the Free Software Foundation, write to the Free "  
+ "Software Foundation; we sometimes make exceptions for this. Our decision will be "  
+ "guided by the two goals of preserving the free status of all derivatives of our free "  
+ "software and of promoting the sharing and reuse of software generally.\n"  
+ "\n"

+ "NO WARRANTY\n"  
+ "\n"  
+ "11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR  
THE "  
+ "PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE  
STATED IN "  
+ "WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM \"AS  
IS\" "  
+ "WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT  
NOT LIMITED "  
+ "TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR  
PURPOSE. "  
+ "THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH  
YOU. SHOULD "  
+ "THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY  
SERVICING, REPAIR OR "  
+ "CORRECTION.\n"  
+ "\n"  
+ "12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL  
ANY "  
+ "COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE  
THE PROGRAM AS "  
+ "PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL,  
SPECIAL, "  
+ "INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO  
USE THE "  
+ "PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED  
INACCURATE "  
+ "OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO  
OPERATE "  
+ "WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN  
ADVISED OF THE "  
+ "POSSIBILITY OF SUCH DAMAGES.\n"  
+ "\n"  
+ "END OF TERMS AND CONDITIONS\n"  
+ "\n"  
+ "\n"  
+ "How to Apply These Terms to Your New Programs\n"  
+ "\n"  
+ "If you develop a new program, and you want it to be of the greatest possible use to "  
+ "the public, the best way to achieve this is to make it free software which everyone "  
+ "can redistribute and change under these terms.\n"  
+ "\n"  
+ "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.\n"  
+ "\n"

```

+ "<one line to give the program's name and a brief idea of what it does.>\n"
+ "Copyright (C) <year> <name of author>\n"
+ "\n"
+ "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 2 of the License, or (at your option) any later version.\n"
+ "\n"
+ "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.\n"
+ "\n"
+ "You should have received a copy of the GNU General Public License along with this "
+ "program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite "
+ "330, Boston, MA 02111-1307 USA\n"
+ "\n"
+ "Also add information on how to contact you by electronic and paper mail.\n"
+ "\n"
+ "If the program is interactive, make it output a short notice like this when it starts "
+ "in an interactive mode:\n"
+ "\n"
+ "Gnomovision version 69, Copyright (C) year name of author Gnomovision comes with "
+ "ABSOLUTELY NO WARRANTY; for details type `show w'.\n"
+ "This is free software, and you are welcome to redistribute it under certain "
+ "conditions; type `show c' for details.\n"
+ "\n"
+ "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.\n"
+ "\n"
+ "You should also get your employer (if you work as a programmer) or your school, if "
+ "any, to sign a \"copyright disclaimer\" for the program, if necessary. Here is a "
+ "sample; alter the names:\n"
+ "\n"
+ "Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' "
+ "(which makes passes at compilers) written by James Hacker.\n"
+ "\n"
+ "<signature of Ty Coon>, 1 April 1989\n"
+ "Ty Coon, President of Vice\n"
+ "\n"
+ "This General Public License does not permit incorporating your program into "
+ "proprietary programs. If your program is a subroutine library, you may consider it "
+ "more useful to permit linking proprietary applications with the library. If this is "
+ "what you want to do, use the GNU Library General Public License instead of this "
+ "License.\n";

```

```
/** The GNU Lesser General Public Licence. */
```

```
public static final String LGPL = "GNU LESSER GENERAL PUBLIC LICENSE\n"
```

+ "\n"  
+ "Version 2.1, February 1999\n"  
+ "\n"  
+ "Copyright (C) 1991, 1999 Free Software Foundation, Inc.\n"  
+ "59 Temple Place, Suite 330, Boston, MA 02111-1307 USA\n"  
+ "Everyone is permitted to copy and distribute verbatim copies of this license document, "  
+ "but changing it is not allowed.\n"  
+ "\n"  
+ "[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.]\n"  
+ "\n"  
+ "Preamble\n"  
+ "\n"  
+ "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.\n"  
+ "\n"  
+ "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.\n"  
+ "\n"  
+ "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.\n"  
+ "\n"  
+ "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.\n"  
+ "\n"  
+ "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.\n"  
+ "\n"  
+ "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.\n"  
+ "\n"

+ "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.\n"  
+ "\n"  
+ "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.\n"  
+ "\n"  
+ "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.\n"  
+ "\n"  
+ "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.\n"  
+ "\n"  
+ "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.\n"  
+ "\n"  
+ "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.\n"  
+ "\n"  
+ "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.\n"  
+ "\n"  
+ "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.\n"  
+ "\n"



+ "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.\n"

+ "\n"

+ "TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION\n"

+ "\n"

+ "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\"."

+ "\n"

+ "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.\n"

+ "\n"

+ "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\").\n"

+ "\n"

+ "\"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.\n"

+ "\n"

+ "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."

+ "\n"

+ "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.\n"

+ "\n"

+ "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.\n"

+ "\n"

+ "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:\n"

+ "\n"

+ "\*" a) The modified work must itself be a software library.\n"

+ "\*" b) You must cause the files modified to carry prominent notices stating that you "

+ "changed the files and the date of any change.\n"

+ "\*" 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.\n"

+ "\*" 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.\n"

+ "\n"

+ "(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.)\n"

+ "\n"

+ "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.\n"

+ "\n"

+ "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.\n"

+ "\n"

+ "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.\n"

+ "\n"

+ "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.\n"

+ "\n"

+ "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.\n"

+ "\n"

+ "This option is useful when you wish to copy part of the code of the Library into a "  
+ "program that is not a library.\n"  
+ "\n"  
+ "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.\n"  
+ "\n"  
+ "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.\n"  
+ "\n"  
+ "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.\n"  
+ "\n"  
+ "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.\n"  
+ "\n"  
+ "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.\n"  
+ "\n"  
+ "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.)\n"  
+ "\n"  
+ "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.\n"  
+ "\n"  
+ "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.\n"  
+ "\n"  
+ "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:\n"

+ "\n"

+ "\* 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.)\n"

+ "\* 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.\n"

+ "\* 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.\n"

+ "\* 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.\n"

+ "\* e) Verify that the user has already received a copy of these materials or that "

+ "you have already sent this user a copy.\n"

+ "\n"

+ "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.\n"

+ "\n"

+ "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 "

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+ "\n"

+ "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 "

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+ "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:\n"

+ "\n"

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+ "the terms of the Sections above.\n"  
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+ "\n"

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```

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+ "\n"
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+ "library for tweaking knobs) written by James Random Hacker.\n"
+ "\n"
+ "<signature of Ty Coon>, 1 April 1990\n"
+ "Ty Coon, President of Vice\n"
+ "\n"
+ "That's all there is to it!\n";

```

```

/** The singleton instance of this class. */
private static Licences singleton;

```

```

/**
 * Returns a reference to this class.
 *
 * @return the instance reference.
 */

```

```

public static Licences getInstance() {
    if (singleton == null) {
        singleton = new Licences();
    }
    return singleton;
}

```

```

/**
 * Returns the GPL text in a non static way to prevent the compiler
 * to copy the contents of the field.
 *
 * @return the GPL licence text.
 */

```

```

public String getGPL() {
    return GPL;
}

```

```

/**
 * Returns the LGPL text in a non static way to prevent the compiler
 * to copy the contents of the field.
 *
 * @return the LGPL licence text.
 */

```

```

public String getLGPL() {
    return LGPL;
}

```



}

## 1.390 jsch 0.1.45

### 1.390.1 Available under license :

JSch 0.0.\* was released under the GNU LGPL license. Later, we have switched over to a BSD-style license.

-----  
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## 1.391 polkit 0.112 26.e17

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Version 2, June 1991

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\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/cfg/GenericConstraintDef.java  
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\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/metadata/aggregated/rule/VoidMethodsMustNotBeReturnValueConstrained.java  
\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/util/classhierarchy/Filter.java  
\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/metadata/aggregated/rule/ParallelMethodsMustNotDefineGroupConversionForCascadedReturnValue.java  
\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/messageinterpolation/HibernateMessageInterpolatorContext.java  
\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/metadata/descriptor/CrossParameterDescriptorImpl.java  
\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/xml/GroupConversionBuilder.java  
\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/xml/ConstrainedExecutableBuilder.java

\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/ScriptAssertContext.java  
\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/metadata/aggregated/rule/MethodConfigurationRule.java  
\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/metadata/aggregated/rule/ParallelMethodsMustNotDefineParameterConstraints.java  
\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/util/classhierarchy/ClassHierarchyHelper.java  
\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/util/classhierarchy/Filters.java  
\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/cfg/context/GroupConversionTargetContextImpl.java  
\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/cfg/context/GroupConversionTargetContext.java  
\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/xml/ConstrainedParameterBuilder.java  
\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/xml/ConstrainedGetterBuilder.java  
\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/xml/ConstrainedFieldBuilder.java  
\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/metadata/core/AnnotationProcessingOptions.java  
\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/ParameterScriptAssertValidator.java  
\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/util/StringHelper.java  
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```
* /opt/cola/permits/1110675258_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/resourceloading/AggregateResourceBundleLocator.java
* /opt/cola/permits/1110675258_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/resourceloading/CachingResourceBundleLocator.java
* /opt/cola/permits/1110675258_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/util/scriptengine/ScriptEvaluatorFactory.java
* /opt/cola/permits/1110675258_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/util/scriptengine/ScriptEvaluator.java
```

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```
* /opt/cola/permits/1110675258_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/META-INF/validation-configuration-1.0.xsd
```

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\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/constraints/EAN.java

\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/EANValidator.java

\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/util/TypeResolutionHelper.java

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- \* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/constraints/ScriptAssert.java
- \* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/engine/ConfigurationImpl.java
- \* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/FutureValidatorForReadablePartial.java
- \* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/util/ExecutableHelper.java
- \* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/FutureValidatorForReadableInstant.java
- \* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/engine/ValidatorFactoryImpl.java
- \* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/metadata/location/ConstraintLocation.java
- \* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/ScriptAssertValidator.java
- \* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/util/annotationfactory/AnnotationProxy.java
- \* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/util/Contracts.java
- \* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/util/ReflectionHelper.java
- \* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/util/annotationfactory/AnnotationDescriptor.java
- \* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/MaxValidatorForNumber.java
- \* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/cfg/defs/URLDef.java
- \* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/constraints/NotBlank.java
- \* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/metadata/core/ConstraintHelper.java

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- \* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/metadata/aggregated/rule/package.html
- \* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/metadata/facets/package.html
- \* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/constraintvalidation/package.html
- \* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/engine/messageinterpolation/parser/package.html
- \* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/metadata/core/package.html
- \* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/cfg/package.html
- \* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/engine/messageinterpolation/package.html
- \* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/util/classhierarchy/package.html

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\* <p>

- \* 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 [JSR 223](http://jcp.org/en/jsr/detail?id=223)
- \* ("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 @ParametersScriptAssert(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/1110675258_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-
jar/org/hibernate/validator/constraints/ParameterScriptAssert.java
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```
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jar/org/hibernate/validator/internal/metadata/aggregated/UnconstrainedEntityMetaDataSingleton.java
* /opt/cola/permits/1110675258_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-
jar/org/hibernate/validator/resourceloading/DelegatingResourceBundleLocator.java
* /opt/cola/permits/1110675258_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-
jar/org/hibernate/validator/spi/resourceloading/ResourceBundleLocator.java
* /opt/cola/permits/1110675258_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-
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\*/  
/\*\*

\* Retrieves constraint related meta data for the parameters of the given  
\* executable.

\*

\* @param executable The executable of interest.

\*

\* @return A list with parameter meta data for the given executable.

\*/

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\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/metadata/provider/AnnotationMetaDataProvider.java

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\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/metadata/descriptor/ReturnValueDescriptorImpl.java

\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/metadata/aggregated/ReturnValueMetaData.java

\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/xml/XMLParserHelper.java

\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/metadata/facets/Cascadable.java  
\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/util/ModUtil.java  
\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/util/privilegedactions/GetDeclaredConstructors.java  
\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/engine/DefaultParameterNameProvider.java  
\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/metadata/facets/Validatable.java  
\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/metadata/aggregated/GroupConversionHelper.java  
\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/engine/constraintvalidation/ConstraintValidatorManager.java  
\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/metadata/aggregated/ValidatableParametersMetaData.java  
\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/metadata/raw/ExecutableElement.java  
\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/xml/ResourceLoaderHelper.java  
\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/engine/groups/Sequence.java  
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Found in path(s):

\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/spi/group/DefaultGroupSequenceProvider.java  
\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/engine/messageinterpolation/el/MapBasedFunctionMapper.java  
\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/engine/messageinterpolation/el/SimpleELContext.java

\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/util/logging/Log.java  
\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/util/logging/Messages.java  
\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/engine/messageinterpolation/el/RootResolver.java  
\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/cfg/context/AnnotationProcessingOptions.java  
\* /opt/cola/permits/1110675258\_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/engine/messageinterpolation/el/MapBasedVariableMapper.java

## 1.393 jackson 2.10.2

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# 1.394 make 3.82 24.e17

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## 1.397 lua 5.1.4 15.e17

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## 1.399 pygobject 3.22.0-1.el7\_4.1

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

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

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

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

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

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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.

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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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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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That's all there is to it!

# 1.400 gnupg 2.0.22 5.e17\_5

## 1.400.1 Available under license :

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Version 3, 29 June 2007

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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.

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Version 3, 29 June 2007

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## 1.401 perl-threads 1.87-4.e17

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

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

Do NOT edit this file directly! -- Edit PPPport\_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<br>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 automatically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

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

```
=head2 --diff=I<program>
```

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

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

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

```
=head2 --cplusplus
```

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

```
=head2 --quiet
```

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

```
=head2 --nodiag
```

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

```
=head2 --nohints
```

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

```
=head2 --nochanges
```

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

```
=head2 --nofilter
```

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

```
=head2 --strip
```

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

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

```
=head2 --list-provided
```

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

```
=head2 --list-unsupported
```

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

```
=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 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.

| Function / Variable      | Static Request              | Global Request                     |
|--------------------------|-----------------------------|------------------------------------|
| PL_parser                | NEED_PL_parser              | NEED_PL_parser_GLOBAL              |
| PL_signals               | NEED_PL_signals             | NEED_PL_signals_GLOBAL             |
| eval_pv()                | NEED_eval_pv                | NEED_eval_pv_GLOBAL                |
| grok_bin()               | NEED_grok_bin               | NEED_grok_bin_GLOBAL               |
| grok_hex()               | NEED_grok_hex               | NEED_grok_hex_GLOBAL               |
| grok_number()            | NEED_grok_number            | NEED_grok_number_GLOBAL            |
| grok_numeric_radix()     | NEED_grok_numeric_radix     | NEED_grok_numeric_radix_GLOBAL     |
| grok_oct()               | NEED_grok_oct               | NEED_grok_oct_GLOBAL               |
| load_module()            | NEED_load_module            | NEED_load_module_GLOBAL            |
| my_snprintf()            | NEED_my_snprintf            | NEED_my_snprintf_GLOBAL            |
| 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             |
| newSVpv_flags()          | NEED_newSVpv_flags          | NEED_newSVpv_flags_GLOBAL          |
| newSVpv_share()          | NEED_newSVpv_share          | NEED_newSVpv_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_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              |
| warn()                   | 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<newSVpv<pv> 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::PPort> 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::PPort>.

=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 $rce = 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  
FREEMPS|||  
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|||  
HEf\_SVKEY||5.004000|  
HeHASH||5.004000|  
HeKEY||5.004000|  
HeKLEN||5.004000|

HePV|5.004000|  
HeSVKEY\_force|5.004000|  
HeSVKEY\_set|5.004000|  
HeSVKEY|5.004000|  
HeUTF8|5.011000|  
HeVAL|5.004000|  
HvNAMELEN\_get|5.009003||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\_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|||  
LVRET|||  
MARK|||  
MULTICALL|5.011000|  
MY\_CXT\_CLONE|5.009002||p  
MY\_CXT\_INIT|5.007003||p  
MY\_CXT|5.007003||p  
MoveD|5.009002||p  
Move|||  
NOOP|5.005000||p  
NUM2PTR|5.006000||p  
NVTYPE|5.006000||p  
NVef|5.006001||p  
NVff|5.006001||p  
NVgf|5.006001||p  
Newxc|5.009003||p  
Newxz|5.009003||p  
Newx|5.009003||p  
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\_SV1|||  
PAD\_SV|||  
PERLIO\_FUNCS\_CAST|5.009003|p  
PERLIO\_FUNCS\_DECL|5.009003|p  
PERL\_ABS|5.008001|p  
PERL\_BCDVERSION|5.011000|p  
PERL\_GCC\_BRACE\_GROUPS\_FORBIDDEN|5.008001|p  
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  
PERL\_MAGIC\_arylen|5.007002|p  
PERL\_MAGIC\_backref|5.007002|p  
PERL\_MAGIC\_bm|5.007002|p  
PERL\_MAGIC\_collxfrm|5.007002|p  
PERL\_MAGIC\_dbfile|5.007002|p  
PERL\_MAGIC\_dbline|5.007002|p  
PERL\_MAGIC\_defelem|5.007002|p  
PERL\_MAGIC\_envelem|5.007002|p  
PERL\_MAGIC\_env|5.007002|p  
PERL\_MAGIC\_ext|5.007002|p  
PERL\_MAGIC\_fm|5.007002|p  
PERL\_MAGIC\_glob|5.011000|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\_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  
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\_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  
PERL\_PV\_PRETTY\_QUOTE|5.009004||p  
PERL\_PV\_PRETTY\_REGPROP|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  
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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\_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  
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PERL\_UQUAD\_MIN|5.004000|p  
PERL\_USE\_GCC\_BRACE\_GROUPS|5.009004|p  
PERL\_USHORT\_MAX|5.004000|p  
PERL\_USHORT\_MIN|5.004000|p  
PERL\_VERSION|5.006000|p  
PL\_DBsignal|5.005000|p  
PL\_DBsingle|||pn  
PL\_DBsub|||pn  
PL\_DBtrace|||pn  
PL\_Sv|5.005000|p  
PL\_bufend|5.011000|p  
PL\_bufptr|5.011000|p  
PL\_compiling|5.004050|p  
PL\_copline|5.011000|p  
PL\_curcop|5.004050|p  
PL\_curstash|5.004050|p  
PL\_debstash|5.004050|p  
PL\_defgv|5.004050|p  
PL\_diehook|5.004050|p  
PL\_dirty|5.004050|p  
PL\_dowarn|||pn  
PL\_errgv|5.004050|p  
PL\_error\_count|5.011000|p  
PL\_expect|5.011000|p  
PL\_hexdigit|5.005000|p  
PL\_hints|5.005000|p  
PL\_in\_my\_stash|5.011000|p  
PL\_in\_my|5.011000|p  
PL\_last\_in\_gv|||n  
PL\_laststatval|5.005000|p  
PL\_lex\_state|5.011000|p  
PL\_lex\_stuff|5.011000|p  
PL\_linestr|5.011000|p  
PL\_modglobal||5.005000|n  
PL\_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

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PL\_rsfilters|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\_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|5.011000||p  
POP\_MULTICALL||5.011000|  
POPi||n  
POPi||n  
POPn||n  
POPpbytex||5.007001|n  
POPpx||5.005030|n  
POPp||n  
POPs||n  
PTR2IV|5.006000||p  
PTR2NV|5.006000||p  
PTR2UV|5.006000||p  
PTR2nat|5.009003||p  
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PTRV|5.006000||p  
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PUSH\_MULTICALL||5.011000|  
PUSHi||  
PUSHmortal|5.009002||p  
PUSHn||  
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PUSHu|5.004000||p  
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PerlIO\_close||5.007003|  
PerlIO\_context\_layers||5.009004|  
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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\_ptrcnt|5.007003|  
PerlIO\_setlinebuf|5.007003|  
PerlIO\_stderr|5.007003|  
PerlIO\_stdin|5.007003|  
PerlIO\_stdout|5.007003|  
PerlIO\_tell|5.007003|  
PerlIO\_unread|5.007003|  
PerlIO\_write|5.007003|  
Perl\_signbit|5.009005|n  
PoisonFree|5.009004||p  
PoisonNew|5.009004||p  
PoisonWith|5.009004||p  
Poison|5.008000||p  
RETVL||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  
STR\_WITH\_LEN|5.009003||p  
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\_IV|||  
SVt\_NV|||  
SVt\_PVAV|||  
SVt\_PVCV|||  
SVt\_PVHV|||  
SVt\_PVMG|||  
SVt\_PV|||  
Safefree|||  
Slab\_Alloc|||  
Slab\_Free|||  
Slab\_to\_rw|||  
StructCopy|||  
SvCUR\_set|||  
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SvEND|||  
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SvGROW|||  
SvIOK\_UV|5.006000|  
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SvIOK\_off|||  
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SvLEN|||  
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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|5.009003|p  
SvPV\_set|||  
SvPVbyte\_force|5.009002|  
SvPVbyte\_nolen|5.006000|  
SvPVbytex\_force|5.006000|  
SvPVbytex|5.006000|  
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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||  
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SvROK\_on||  
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SvRXOK|5.009005|  
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SvSHARED\_HASH|5.009003|p  
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SvSTASH\_set|5.009003|p  
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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|  
vcroak|5.006000|  
vdeb|5.007003|  
vdie\_common||  
vdie\_croak\_common||  
vdie||  
vform|5.006000|  
visit||  
vivify\_defelem||  
vivify\_ref||  
vload\_module|5.006000|p  
vmess|5.006000|  
vnewSVpvf|5.006000|5.004000|p  
vnormal|5.009002|  
vnumify|5.009000|  
vstringify|5.009000|  
vverify|5.009003|  
vwarner|5.006000|  
vwarn|5.006000|  
wait4pid||  
warn\_nocontext||vn  
warner\_nocontext||vn  
warner|5.006000|5.004000|pv  
warn||v  
watch||  
whichsig||  
write\_no\_mem||

```

write_to_stderr||
xmldump_all|||
xmldump_attr|||
xmldump_eval|||
xmldump_form|||
xmldump_indent|||v
xmldump_packsubs|||
xmldump_sub|||
xmldump_vindent|||
yyerror|||
yylex|||
yyparse|||
yywarn|||
);

if (exists $opt{'list-unsupported'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};
        print "$f ", 'x'(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
    }
    exit 0;
}

# Scan for possible replacement candidates

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

sub find_api
{
    my $code = shift;
    $code =~ s{
        /(?: \*[^*]*\*+(?:[^\$ccs][^*]*\*+)* /| /[\r\n]*
        | "[^"\\]*(?:\\.[^"\\]*)*"
        | '[^"\\]*(?:\\.[^"\\]*)*' }{ }egsx;
    grep { exists $API{$_} } $code =~ /(\w+)/mg;
}

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

```

```

}
else { undef $hint }
}

$hint = [$1, [split /,?\s+/, $2]]
  if m{^\s*$rcss\s+(Hint|Warning):\s+(\w+(?:,\s+\w+)*)\s*$};

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

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

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

$function = [$1, ""] if m{^DPPP_(my_(\w+))};

$replace = $1 if m{^\s*$rcss\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+).*\s*$rcss\s+Replace\s+$rcce};
$replace{$1} = $2 if m{^\s*$rcss\s+Replace (\w+) with (\w+)\s+$rcce\s*$};

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

```

```

}

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

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

if (exists $opt{'api-info'}) {
    my $f;
    my $count = 0;
    my $match = $opt{'api-info'} =~ m!^(.*)/$! ? $1 : "\Q$opt{'api-info'}\E\$";
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $f =~ /$match/;
        print "\n=== $f ===\n\n";
        my $info = 0;
        if ($API{$f}{base} || $API{$f}{todo}) {
            my $base = format_version($API{$f}{base} || $API{$f}{todo});
            print "Supported at least starting from perl-$base.\n";
            $info++;
        }
        if ($API{$f}{provided}) {
            my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
            print "Support by $ppport provided back to perl-$todo.\n";
            print "Support needs to be explicitly requested by NEED_$. \n" if exists $need{$f};
            print "Depends on: ", join(', ', @{$depends{$f}}), ". \n" if exists $depends{$f};
            print "\n$hints{$f}" if exists $hints{$f};
            print "\nWARNING:\n$warnings{$f}" if exists $warnings{$f};
            $info++;
        }
        print "No portability information available.\n" unless $info;
        $count++;
    }
    $count or print "Found no API matching '$opt{'api-info'}'.";
    print "\n";
    exit 0;
}

if (exists $opt{'list-provided'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{provided};
        my @flags;
        push @flags, 'explicit' if exists $need{$f};
        push @flags, 'depend' if exists $depends{$f};
        push @flags, 'hint' if exists $hints{$f};
    }
}

```



```

push @flags, 'warning' if exists $warnings{$f};
my $flags = @flags ? ' ['.join(', ', @flags).']': "";
print "$f$flags\n";
}
exit 0;
}

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

if (@ARGV) {
my %seen;
for (@ARGV) {
if (-e) {
if (-f) {
push @files, $_ unless $seen{$_}++;
}
else { warn "'$_' is not a file.\n" }
}
else {
my @new = grep { -f } glob $_
or warn "'$_' does not exist.\n";
push @files, grep { !$seen{$_}++ } @new;
}
}
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($?) {
@files = map { glob "$*" } @srcext;
}
}

if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("1.c" => 1, "1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\bQ$ppport\E$/i || !/($srcext)$/i;
push @ { $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {

```

```

warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}

```

```
die "No input files given!\n" unless @files;
```

```

my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;

```

```

for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}

```

```
info("Scanning $filename ...");
```

```

my $c = do { local $/; <IN> };
close IN;

```

```
my %file = (orig => $c, changes => 0);
```

```

# Temporarily remove C/XS comments and strings from the code
my @ccom;

```

```

$c =~ s{
( ^$HS*#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*#$HS*(?:define|elif|if(?:def?))\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\])*"
| '[^'\\]*(?:\\.[^'\\])*'
| /(?: \*[^\*]*\*+(?:\^[^$ccs][^*]*\*+)* /|/[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;

```

```
$file{ccom} = \@ccom;
```

```
$file{code} = $c;
```

```
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;
```

```
my $func;
```

```

for $func (keys %API) {
my $match = $func;
$match .= "$revreplace{$func}" if exists $revreplace{$func};
if ($c =~ /\b(?:Perl_)?($match)\b/) {

```

```

$file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
$file{uses_Perl}{$func}++ if $c =~ /\bPerl_{$func}\b/;
if (exists $API{$func}{provided}) {
    $file{uses_provided}{$func}++;
    if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
        $file{uses}{$func}++;
        my @deps = rec_depend($func);
        if (@deps) {
            $file{uses_deps}{$func} = \@deps;
            for (@deps) {
                $file{uses}{$_} = 0 unless exists $file{uses}{$_};
            }
        }
        for ($func, @deps) {
            $file{needs}{$_} = 'static' if exists $need{$_};
        }
    }
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
    if ($c =~ /\b{$func}\b/) {
        $file{uses_todo}{$func}++;
    }
}
}

while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
    if (exists $need{$2}) {
        $file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
    }
    else { warning("Possibly wrong #define $1 in $filename") }
}

for (qw(uses needs uses_todo needed_global needed_static)) {
    for $func (keys %{$file{$_}}) {
        push @{$global{$_}{$func}}, $filename;
    }
}

$file{$filename} = \%file;
}

# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
    if (@{$global{needs}{$need}} > 1) {
        my @targets = @{$global{needs}{$need}};
        my @t = grep $files{$_}{needed_global}{$need}, @targets;
    }
}

```

```

@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
    $files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}

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

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

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

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

```

```

$file{needs_inc_ppport} = keys % {$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 $cpc = 0;

```

```

my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^/!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rcs$ix$rcce/$ccs$ccom[$ix] $cce/;
    }
    else {
        $c =~ s/$rcs$ix$rcce/$ccom[$ix]/;
    }
}

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

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

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("$newfile' already exists, refusing to write copy of '$filename'");
        }
        else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of '$filename' with changes to '$newfile'");
                print F $c;
                close F;
            }
            else {
                error("Cannot open '$newfile' for writing: $!");
            }
        }
    }
}

elsif (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
        unless ($patch_opened) {
            if (open PATCH, ">$opt{patch}") {
                $patch_opened = 1;
            }
        }
        else {
            error("Cannot open '$opt{patch}' for writing: $!");
            delete $opt{patch};
            $opt{changes} = 1;
        }
    }
}

```

```

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

```

```
close PATCH if $patch_opened;
```

```
exit 0;
```

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

```
sub mydiff
```

```

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

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

    if (!defined $diff and try_use("Text::Diff")) {
        $diff = Text::Diff::diff($file, \$str, { STYLE => 'Unified' });
        $diff = <<HEADER . $diff;
    }

    --- $file
    +++ $file.patched
    HEADER
}

```

```

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

```



```

}

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

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

print F $diff;
}

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

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

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

        if (open F, "$prog $file $tmp |") {
            while (<F>) {
                s/\Q$tmp\E/$file.patched/;
                $diff .= $_;
            }
            close F;
            unlink $tmp;
            return $diff;
        }

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

    return undef;
}

```

```

sub rec_depend
{
my($func, $seen) = @_ ;
return () unless exists $depends{$func};
$seen = {%{$seen||{}}};
return () if $seen->{$func}++;
my %s;
grep !${$_}++, 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 = ( 'T' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([>]+)>/M{$1}$2M{$1}/g;

```

```
print <<ENDUSAGE;
```

Usage: \$usage

See perldoc \$0 for details.

ENDUSAGE

```

exit 2;
}

```

sub strip

```

{
my $self = do { local(@ARGV,$/)=($0); <> };
my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^=\w+/ms;
$copy =~ s/^(?=\S+)/ /gms;
$self =~ s/^\$HS+Do NOT edit.*?(?=\^)/$copy/ms;
$self =~ s/^\$SKIP.*(?=\^__DATA__)/SKIP
if (\@ARGV && \$_[0] eq '--unstrip') {
    eval { require Devel::PPPport };
    \$_ and die "Cannot require Devel::PPPport, please install.\n";
    if (eval \$Devel::PPPport::VERSION < $VERSION) {
        die "$0 was originally generated with Devel::PPPport $VERSION.\n"
            . "Your Devel::PPPport is only version \$Devel::PPPport::VERSION.\n"
            . "Please install a newer version, or --unstrip will not work.\n";
    }
    Devel::PPPport::WriteFile(\$0);
    exit 0;
}
print <<END;

```

Sorry, but this is a stripped version of \\$.

To be able to use its original script and doc functionality,  
please try to regenerate this file using:

```
\$^X \$0 --unstrip

END
/ms;
my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
$c =~ s{
  /(?:\[^\]*\*+(?:\[^\$ccs][^\]*\*+)* /|/[\r\n]*
| ("^\]**(?:\[^\]*\*)*)"
| '[^\]**(?:\[^\]*\*)*)
| ($HS+) }{ defined $2 ? '': ($1 || ") }gsex;
$c =~ s!\s+!!mg;
$c =~ s!^\$LF!!mg;
$c =~ s!\s*#\s*#!mg;
$c =~ s!\s+!!mg;

open OUT, ">$0" or die "cannot strip $0: $!\n";
print OUT "$pl$c\n";

exit 0;
}

__DATA__
*/
```

Found in path(s):

```
* /opt/cola/permits/1000848958_1646171581.67/0/perl-threads-1.87-4.el7.src.rpm-cosi-expand-archive-9YR7xE5s/threads-1.87.tar.gz-cosi-expand-archive-H5g7shXt/threads-1.87/ppport.h
```

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 1.87

=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<-E<gt>new()` method is an alias for `C<-E<gt>create()`.

=item `$thr->join()`

This will wait for the corresponding thread to complete its execution. When the thread finishes, `C<-E<gt>join()` will return the return value(s) of the entry point function.

The context (void, scalar or list) for the return value(s) for `C<-E<gt>join()` is determined at the time of thread creation.

```
# Create thread in list context (implicit)
my ($thr1) = threads->create(sub {
    my @results = qw(a b c);
```



```

        return (@results);
    });
# or (explicit)
my $thr1 = threads->create({'context' => 'list'},
    sub {
        my @results = qw(a b c);
        return (@results);
    });
# Retrieve list results from thread
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 out: Thread 1 started...
```

=item threads->object(\$tid)

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

=item threads->yield()

This is a suggestion to the OS to let this thread yield CPU time to other threads. What actually happens is highly dependent upon the underlying thread implementation.

You may do C<use threads qw(yield)>, and then just use C<yield()> in your code.

=item threads->list()

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

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

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

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

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

With a I<false> argument (using C<threads::joinable>), returns a list of all non-joined, non-detached I<threads> objects that have finished running (i.e., for which C<-E<gt>join()> will not I<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 the memory location of 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()|perlfunc/"return EXPR"> from the entry point function with the appropriate return value(s).

=over

=item threads->exit()

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

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

=item threads->exit(status)

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

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

=item die()

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

=item exit(status)

Calling L<exit()|perlfunc/"exit EXPR"> 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-E<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 I<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 `L<wantarray()|perlfunc/"wantarray">`. The thread may then specify a value of the appropriate type to be returned from `C<-E<gt>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 `C<-E<gt>create()` with a hash reference as the first argument:

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

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

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

```

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

```

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

```

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

```

## =head2 Implicit context

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

```

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

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

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

```

## =head2 \$thr->wantarray()

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

## =head2 threads->wantarray()

Class method to return the current thread's context. This returns the same value as running L<wantarray()|perlfunc/"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);
```

```
=back
```

## =head1 THREAD SIGNALLING

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

```
=over 4
```

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

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

Returns the thread object to allow for method chaining:

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

```
=back
```

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

=item This Perl not built to support threads

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

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

=item Cannot change stack size of an existing thread

The stack size of currently extant threads cannot be changed, therefore, the following results in the above error:

```
$thr->set_stack_size($size);
```

=item Cannot signal threads without safe signals

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

=item Unrecognized signal name: ...

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

=back

## =head1 BUGS AND LIMITATIONS

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

=over

### =item Thread-safe modules

See L<perlmot/"Making your module threadsafe"> when creating modules that may be used in threaded applications, especially if those modules use non-Perl data, or XS code.

### =item Using non-thread-safe modules

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

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

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

    ....
}
```

If the module is needed inside the I<main> thread, try modifying your application so that the module is loaded (again using C<require> and C<-E<gt>import()>) after any threads are started, and in such a way that no other threads are started afterwards.

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

### =item Memory consumption

On most systems, frequent and continual creation and destruction of threads can lead to ever-increasing growth in the memory footprint of the Perl interpreter. While it is simple to just launch threads and then C<-E<gt>join()> or C<-E<gt>detach()> them, for long-lived applications, it is

better to maintain a pool of threads, and to reuse them for the work needed, using `L<queues|Thread::Queue>` to notify threads of pending work. The CPAN distribution of this module contains a simple example (`F<examples/pool_reuse.pl>`) illustrating the creation, use and monitoring of a pool of `I<reusable>` threads.

=item Current working directory

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

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

=item Environment variables

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

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

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

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

=item Catching signals

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

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

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

```

    alarm(0);
};
if ($@ =~ /Timeout/) {
    warn("Task in thread timed out\n");
}
};

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

... # Main thread continues working

```

=item Parent-child threads

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

=item Creating threads inside special blocks

Creating threads inside C<BEGIN>, C<CHECK> or C<INIT> blocks should not be relied upon. Depending on the Perl version and the application code, results may range from success, to (apparently harmless) warnings of leaked scalar, or all the way up to crashing of the Perl interpreter.

=item Unsafe signals

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

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

=over 4

=item \* Perl has been built with C<PERL\_OLD\_SIGNALS> (see C<perl -V>).

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

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

=back

If unsafe signals is in effect, then signal handling is not thread-safe, and the C<-E<gt>kill()> signalling method cannot be used.

=item Returning closures from threads

Returning closures from threads should not be relied upon. Depending on the Perl version and the application code, results may range from success, to (apparently harmless) warnings of leaked scalar, or all the way up to crashing of the Perl interpreter.

=item Returning objects from threads

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

=item END blocks in threads

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

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

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

=item Open directory handles

In perl 5.14 and higher, on systems other than Windows that do not support the C<fchdir> C function, directory handles (see L<opendir|perlfunc/"opendir DIRHANDLE,EXPR">) will not be copied to new threads. You can use the C<d\_fchdir> variable in L<Config.pm|Config> to determine whether your system supports it.

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

L<[perl #75154]|http://rt.perl.org/rt3/Public/Bug/Display.html?id=75154>

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

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



than upgrading to the latest version of Perl.

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

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

=back

=head1 REQUIREMENTS

Perl 5.8.0 or later

=head1 SEE ALSO

L<threads> Discussion Forum on CPAN:  
L<<http://www.cpanforum.com/dist/threads>>

L<threads::shared>, L<perlthrtut>

L<<http://www.perl.com/pub/a/2002/06/11/threads.html>> and  
L<<http://www.perl.com/pub/a/2002/09/04/threads.html>>

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

Stack size discussion:  
L<[http://www.perlmonks.org/?node\\_id=532956](http://www.perlmonks.org/?node_id=532956)>

=head1 AUTHOR

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=head1 LICENSE

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=head1 ACKNOWLEDGEMENTS

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

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Being there to answer zillions of annoying questions

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

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

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

=cut

Found in path(s):

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\* /opt/cola/permits/1000848958\_1646171581.67/0/perl-threads-1.87-4.el7.src.rpm-cosi-expand-archive-9YR7xE5s/threads-1.87.tar.gz-cosi-expand-archive-H5g7shXt/threads-1.87/examples/pool.pl

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---

abstract: 'Perl interpreter-based threads'

author:

- 'Artur Bergman, Jerry D. Hedden <jdhedden AT cpan DOT org>'

build\_requires:

ExtUtils::MakeMaker: 0

configure\_requires:

ExtUtils::MakeMaker: 0

dynamic\_config: 1

generated\_by: 'ExtUtils::MakeMaker version 6.66, CPAN::Meta::Converter version 2.130880'

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: 1.87

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## 1.403 geronimoj2eemanagement 1.0.1

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The JUnit depends on Java Hamcrest (<http://hamcrest.org/JavaHamcrest/>).

JUnit

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# 1.406 ehcache 2.6.6

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```
---  
layout: about_page  
title: License  
visible_title: "Ehcache Licensing"  
active_sub_menu_id: ehc_mnu_about_license  
---
```

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## 1.407 python-decorator 3.4.0-3.el7

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Found in path(s):

\* /opt/cola/permits/1136595845\_1613806225.62/0/python-decorator-3.4.0-3.el7-1.src.rpm-cosi-expand-archive-ncLFDtRz/decorator-3.4.0.tar.gz-cosi-expand-archive-4i3VovJo/decorator-3.4.0/documentation3.py

\* /opt/cola/permits/1136595845\_1613806225.62/0/python-decorator-3.4.0-3.el7-1.src.rpm-cosi-expand-archive-ncLFDtRz/decorator-3.4.0.tar.gz-cosi-expand-archive-4i3VovJo/decorator-3.4.0/documentation.py

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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](mailto:michele.simionato@gmail.com)

License: BSD License

Description: Decorator module

=====

:Author: Michele Simionato  
:E-mail: [michele.simionato@gmail.com](mailto:michele.simionato@gmail.com)  
:Requires: Python 2.4+  
:Download page: <http://pypi.python.org/pypi/decorator>  
:Installation: ``easy\_install decorator``  
:License: BSD license

## 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  $\geq 2.4$  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)` \_

.. \_HTML version (Python 2): <http://micheles.googlecode.com/hg/decorator/documentation.html>  
.. \_PDF version (Python 2): <http://micheles.googlecode.com/hg/decorator/documentation.pdf>  
.. \_HTML version (Python 3): <http://micheles.googlecode.com/hg/decorator/documentation3.html>  
.. \_PDF version (Python 3): <http://micheles.googlecode.com/hg/decorator/documentation3.pdf>

## 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>

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

Found in path(s):

\* /opt/cola/permits/1136595845\_1613806225.62/0/python-decorator-3.4.0-3.el7-1.src.rpm-cosi-expand-archive-ncLFDtRz/decorator-3.4.0.tar.gz-cosi-expand-archive-4i3VovJo/decorator-3.4.0/src/decorator.egg-info/PKG-INFO  
\* /opt/cola/permits/1136595845\_1613806225.62/0/python-decorator-3.4.0-3.el7-1.src.rpm-cosi-expand-archive-ncLFDtRz/decorator-3.4.0.tar.gz-cosi-expand-archive-4i3VovJo/decorator-3.4.0/PKG-INFO

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## Decorator module

=====

:Author: Michele Simionato  
:E-mail: michele.simionato@gmail.com  
:Requires: Python 2.4+  
:Download page: <http://pypi.python.org/pypi/decorator>  
:Installation: ``easy\_install decorator``  
:License: BSD license

## 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  $\geq 2.4$  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)`\_
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- `HTML version (Python 3)`\_
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.. [\\_HTML version \(Python 2\): http://micheles.googlecode.com/hg/decorator/documentation.html](http://micheles.googlecode.com/hg/decorator/documentation.html)  
.. [\\_PDF version \(Python 2\): http://micheles.googlecode.com/hg/decorator/documentation.pdf](http://micheles.googlecode.com/hg/decorator/documentation.pdf)  
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## 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/1136595845\_1613806225.62/0/python-decorator-3.4.0-3.el7-1.src.rpm-cosi-expand-archive-ncLFDtRz/decorator-3.4.0.tar.gz-cosi-expand-archive-4i3VovJo/decorator-3.4.0/README.txt

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ncLFDtRz/decorator-3.4.0.tar.gz-cosi-expand-archive-4i3VovJo/decorator-3.4.0/src/decorator.py

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Found in path(s):

\* /opt/cola/permits/1136595845\_1613806225.62/0/python-decorator-3.4.0-3.el7-1.src.rpm-cosi-expand-archive-ncLFDtRz/python-decorator.spec

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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/1136595845_1613806225.62/0/python-decorator-3.4.0-3.el7-1.src.rpm-cosi-expand-archive-ncLFDtRz/decorator-3.4.0.tar.gz-cosi-expand-archive-4i3VovJo/decorator-3.4.0/setup.py
```

# 1.408 findutils 4.5.11 6.el7

## 1.408.1 Available under license :

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Version 3, 29 June 2007

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Version 3, 29 June 2007

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## 1.410 jsr305 1.3.9

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# 1.411 relaxng-datatype 1.0

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jar/javax/ws/rs/core/Link.java

\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/client/Entity.java

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jar/javax/ws/rs/core/NoContentException.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/Priorities.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/client/ResponseProcessingException.java

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jar/javax/ws/rs/ext/InterceptorContext.java  
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jar/javax/ws/rs/NameBinding.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/core/Feature.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/ext/ReaderInterceptor.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/ext/WriterInterceptor.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/container/DynamicFeature.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/core/MultivaluedHashMap.java

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 jar/javax/ws/rs/client/Client.java  
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\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/ext/FactoryFinder.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/Request.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/GET.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/MatrixParam.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/OPTIONS.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/UriInfo.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/ext/RuntimeDelegate.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/CookieParam.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/ext/MessageBodyReader.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/HEAD.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/NewCookie.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/UriBuilder.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/POST.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/DefaultValue.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/ApplicationPath.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/DELETE.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/package-info.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/Application.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/QueryParam.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-

jar/javax/ws/rs/PathParam.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/PUT.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/Cookie.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/Variant.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/Consumes.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/client/FactoryFinder.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/HttpHeaders.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/FormParam.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/EntityTag.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/Produces.java

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*/
/**
 * Convert the supplied value to a String.
 * <p>
 * This method is reserved for future use. Proprietary JAX-RS extensions may leverage the method.
 * Users should be aware that any such support for the method comes at the expense of producing
 * non-portable code.
 * </p>
 *
 * @param value the value of type { @code T }.
 * @return a String representation of the value.
 *
 * @throws IllegalArgumentException if the supplied object cannot be
 *         serialized or is { @code null }.
 */

```

Found in path(s):

```

* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/ext/ParamConverter.java

```

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jar/javax/ws/rs/HttpMethod.java

\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/core/MultivaluedMap.java

\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/core/GenericType.java

\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/Path.java

\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/core/PathSegment.java

\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/ext/Provider.java

\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/ext/MessageBodyWriter.java

\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/ext/package-  
info.java

\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/HeaderParam.java

\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/core/StreamingOutput.java

\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/ext/ExceptionMapper.java

\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/core/UriBuilderException.java

\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-



```
jar/javax/ws/rs/Encoded.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/ext/Providers.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/ext/ContextResolver.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/core/Context.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/core/package-info.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/core/SecurityContext.java
```

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jar/javax/ws/rs/WebApplicationException.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/core/Response.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/core/CacheControl.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/core/MediaType.java

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\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/container/Suspended.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/core/FeatureContext.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/ConstrainedTo.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/RuntimeType.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/container/ConnectionCallback.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/container/TimeoutHandler.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/container/ResourceContext.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/container/CompletionCallback.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/container/package-info.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/BeanParam.java

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- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/InternalServerErrorException.java
- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/ClientErrorException.java
- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/NotAcceptableException.java
- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/RedirectionException.java
- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/BadRequestException.java
- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/Configuration.java
- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/ServiceUnavailableException.java
- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/client/ClientResponseFilter.java
- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/container/ContainerResponseFilter.java
- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/container/ContainerRequestContext.java
- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/AbstractMultivaluedMap.java
- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/container/ContainerRequestFilter.java

\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/container/PreMatching.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/client/ClientRequestFilter.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/NotAuthorizedException.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/NotAllowedException.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/container/AsyncResponse.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/client/ClientResponseContext.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/ForbiddenException.java  
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\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/client/ClientRequestContext.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/NotFoundException.java

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Found in path(s):

\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/ext/ParamConverterProvider.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/container/ContainerResponseContext.java

# 1.414 perl-http-tiny 0.033-3.el7

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```
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# 1.416 xfsprogs 4.5.0-22.el7

## 1.416.1 Available under license :

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